

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

PAGE 1 OF 26

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1-6-82		B. Potcamp		M. KNAPP		6834		MPK Jm		1	B-1				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIFORNIA		Little Buttes		CALIFORNIA		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
															SCALED y-493,605 x-1,902,300
K	TRD	WEST	ELEVATION	-	2499.0					2499.0	K	493,605	1,902,300	TRD EAST FL. 2499.0	
	1048		344° 57' 49"	-180	+15.5	+3.8	-	+3.8	2502.8		BS	-1048	-8		
	1048					+9.0	TH	-5.2		+3.8	BS			-2	
61	660		344° 58'		+15.5	2.6	-	-2.6	2500.2			+660	+5	493,225 1,902,275	
62	330		" "		" "	4.2	-	-4.2	2498.6			+330	+3	492,895 1,902,293	
63	0				" "	5.4	-	-5.4	2497.4		T	0	0	492,565 1,902,290	
64	330		164° 50'		" "	3.1	-	-3.1	2499.7			-330	-2	492,235 1,902,288	
65	660		" "		" "	4.8	-	-4.8	2498.0			-660	-4	491,905 1,902,286	
66	990		" "		" "	6.3	-	-6.3	2496.5			-990	-6	491,575 1,902,284	
67	1320		" "		" "	8.0	-	-8.0	2494.8			-1320	-8	491,245 1,902,282	
TP	1564		164° 43'		+15.5	7.2	-	-7.2	2495.6		TP	-1564	-6	491,009 1,902,282	
TP	1564					11.6	89° 50'	+4.6	-7.0		TP				491,009 1,902,282 H.W.M. E.D.M. EL. 2493.0
	2724		344° 34' 22"	-180	+15.5	+11.3	TH	-13.6	-2.3	2493.3		BS	-2724	-3	
	2724					+9.0	89° 46'	-11.1	-2.1			BS		-2	
68	2639		344° 29'		" "	13.3	89° 40'	+13.4	+2.1	2495.4		+2639	-1	490,932 1,902,276	E.D.M.
69	2310		" "		" "	11.3	89° 40'	+13.4	+2.1	2495.4		+2310	-1	490,603 1,902,276	
70	1980		" "		" "	9.4	89° 40'	+11.5	+2.1	2495.4		+1980	-1	490,273 1,902,276	
71	1650		" "		" "	8.3	89° 40'	+9.6	+1.3	2494.6		+1650	±0	489,943 1,902,276	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKER BY		LINE NO.	PAGE				
1-6-82		B. Lotcamp		M. Knapp		6834		MPK Jm		1	B-2				
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
CALIFORNIA		Little Buttes	CALIFORNIA	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
									2493.3						
72	1320		344° 29'	15.5°	6.7	89° 40'	+7.7	+1.0		2494.3		+1320	± 0	489,613	1,902,277
73	990		" "	"	8.1	89° 30'	+8.6	+0.5		2493.8		+990	± 0	489,283	1,902,277
74	660		" "	"	5.7	89° 30'	+5.8	+0.1		2493.4		+660	± 0	488,953	1,902,277
75	330		" "	"	4.8	89° 30'	+2.9	-1.9		2491.4		+330	± 0	488,623	1,902,277
76	0			"	5.4	-		-5.4		2487.9	π	0	0	488,293	1,902,277
77	330		158° 58'	15.5°	6.0	90° 30'	-2.9	-8.9		2484.4		-328	+32	487,965	1,902,309
78	660		161° 11'	"	5.8	90° 30'	-5.8	-11.6		2481.7		-659	+38	487,634	1,902,315
79	990		162° 14'	"	10.5	-		-10.5		2482.8		-989	+39	487,304	1,902,316
80	1320		162° 49'	"	5.3	04	-6.6	-11.9		2481.4		-1319	+39	486,974	1,902,316
81	1650		163° 04'	"	12.0	-		-12.0		2481.3		-1649	+41	486,644	1,902,318
82	1980		163° 23'	"	11.0	-		-11.0		2482.3		-1980	+39	486,313	1,902,316
83	2306		163° 34'	15.5°	11.5	-		-11.5		2481.8		-2306	+38	485,987	1,902,315 E.A.M
#	2581		163° 47' 29"	"	10.7	-		-10.7			TP	-2581	+32	485,720	1,902,307 WAY EL. 2482.0
#	2581			"	3.3	90° 10'	-7.5	-10.8		2482.5	TP				# 4-185,720 X-1,902,310
	2694		344° 03' 27" - 180°	15.5°	+7.2	-		+7.2			BS	-2694	+21		
	2694			"	+14.9	89° 50'	-7.8	+7.1	2489.6		BS				
84	2640		343° 59'	"	8.0	-		-8.0		2481.6		+2640	-24	485,674	1,902,300
85	2310		" "	15.5°	7.4	-		-7.4		2482.2		+2310	-21	485,344	1,902,303

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-6-82		D. Cotcamp		M. Knapp		6834		MPK Jm		1		B-3			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		Little Buttes		CALIFORNIA		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
									2489.6						
96	1980		343° 59'	15.5°	8.0	-		-8.0		2481.6		+1980	-18	485,014	1,902,308
87	1650		" "	"	7.8	-		-7.8		2481.8		+1650	-15	484,684	1,902,311
88	1320		" "	"	8.0	-		-8.0		2481.6		+1320	-12	484,354	1,902,314
89	990		" "	"	7.7	-		-7.7		2481.9		+990	-9	484,024	1,902,317
90	660		" "	"	6.9	-		-6.9		2482.7		+660	-6	483,694	1,902,320
91	330		" "	15.5°	6.0	-		-6.0		2483.6		+330	-3	483,364	1,902,323
91	67		346° 51' 40"	"	5.5	-		-5.5		2484.1	1/4	+67	+3	483,104	1,902,324
92	0			"	5.4	-		-5.4		2484.2	1/4	0	0	483,034	1,902,326
93	330		163° 12'	"	4.2	-		-4.2		2485.4		-330	+7	482,704	1,902,333
94	660		" "	"	3.3	-		-3.3		2486.3		-660	+15	482,374	1,902,341
95	990		163° 50'	15.5°	7.8	TH	+5.0	-2.8		2486.8		-990	+12	482,044	1,902,338
96	1320		" "	"	8.4	TH	+6.6	-1.8		2487.8		-1320	+15	481,714	1,902,341
97	1650		" "	"	10.5	TN	+8.3	-2.2		2487.4		-1650	+19	481,384	1,902,345
98	1980		" "	"	11.8	TH	+9.9	-1.9		2487.7		-1980	+23	481,054	1,902,349
99	2306		" "	"	13.2	TH	+11.5	-1.7		2487.9		-2306	+27	480,728	1,902,353
1/4	2603		163° 55' 56"	15.5°	1.2	-		-1.2		2488.4	1/4	-2603	+26	480,440	1,902,350
1/4	2603				14.1	TH	+13.0	-1.1			1/4	+9	2		
															KERN County
															1/4 Hwy EL. 2486.0
															1/4-480,440 1/4-1,902,350
															LOS ANGELES COUNTY

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-4-82		B. Cotcamp		M. KNAPP		6834		MPK		1	1			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
CALIFORNIA		Little Buttes		CALIFORNIA		LOS ANGELES					L. DAVIS			
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
K1	4 way		LOS Angeles Kern County Line							2486.0	#			SCALED y-480,440 x-1,902,350 4 way EL. 2486.0
	5312		344° 33' 46"	-126°	+15.0	+3.2	-	+3.2			BS	-5312	+41	
	5312				+12.6	89° 54'	-9.3	+3.3	2489.3		BS		+5	
100	5280.		344° 31'	+15.0	3.6	-		-3.6	2485.7			+5280	-45	480,403 1,902,353 E.D.M.
101	4950		" "	" "	3.1	-		-3.1	2486.2			+4950	-42	480,073 1,902,356
102	4620		" "	" "	2.8	-		-2.8	2486.5			+4620	-39	479,743 1,902,359
103	4290		" "	" "	2.2	-		-2.2	2487.1			+4290	-36	479,413 1,902,362
104	3960		" "	" "	3.1	-		-3.1	2486.2			+3960	-33	479,083 1,902,365
105	3630		344° 31'	+15.0	3.1	-		-3.1	2486.2			+3630	-31	478,753 1,902,367
106	3300		" "	" "	3.3	-		-3.3	2486.0			+3300	-28	478,423 1,902,370
107	2970		" "	" "	3.2	-		-3.2	2486.1			+2970	-25	478,093 1,902,373
108	2640		" "	" "	2.8	-		-2.8	2486.5			+2640	-22	477,763 1,902,376
109	2310		" "	" "	2.8	-		-2.8	2486.5			+2310	-19	477,433 1,902,379
110	1980		344° 31'	+15.0	3.0	-		-3.0	2486.3			+1980	-17	477,103 1,902,381
111	1650		" "	" "	3.8	-		-3.8	2485.5			+1650	-14	476,773 1,902,384
112	1320		" "	" "	4.0	-		-4.0	2485.3			+1320	-11	476,443 1,902,387
113	990		" "	" "	9.2	TH	+5.0	-4.2	2485.1			+990	-8	476,113 1,902,390
114	660		" "	" "	4.2	-		-4.2	2485.1			+660	-6	475,783 1,902,392
115	330		" "	" "	4.0	-		-4.0	2485.3			+330	-3	475,453 1,902,395

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE					
1-4-82		M. KNAPP		M. KNAPP		6834		MPK Jm		1	2					
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER								
CALIFORNIA		Little Buttes	CALIFORNIA	LOS ANGELES				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
									2489.3							
116	18		32° 15'	+15.0	5.0	-		-5.0		2484.3	#	+12	+13	475,135	1,902,411	HL y-475,140 x-1,902,395
117	0				5.4	-		-5.4		2483.9	T	0	0	475,123	1,902,398	
118	330		165° 06'	+15.0	4.2	-		-4.2		2485.1		-330	-1	474,793	1,902,397	
119	660		" "	" "	3.1	-		-3.1		2486.2		-660	-1	474,463	1,902,397	
120	990		" "	" "	6.8	TH	+5.0	-1.8		2487.5		-990	-2	474,193	1,902,396	
121	1320		" "	" "	8.1	TH	+6.6	-1.5		2487.8		-1320	-2	473,803	1,902,396	
122	1650		" "	" "	10.9	TH	+8.3	-2.6		2486.7		-1650	-3	473,473	1,902,395	
123	1980		" "	" "	12.1	TH	+9.9	-2.2		2487.1		-1980	-3	473,143	1,902,395	
124	2310		165° 06'	+15.0	3.5	-		-3.5		2485.8		-2310	-4	472,813	1,902,394	
125	2640		" "	" "	4.3	-		-4.3		2485.0		-2640	-5	472,483	1,902,393	
126	2970		" "	" "	4.5	-		-4.5		2484.8		-2970	-5	472,153	1,902,393	
127	3300		" "	" "	4.3	-		-4.3		2485.0		-3300	-6	471,823	1,902,392	
128	3630		" "	" "	5.0	-		-5.0		2484.3		-3630	-6	471,493	1,902,392	
129	3960		" "	" "	5.1	-		-5.1		2484.2		-3960	-7	471,163	1,902,391	
130	4290		165° 06'	" "	5.8	-		-5.8		2483.5		-4290	-7	470,833	1,902,391	
131	4620		" "	+15.0	5.7	-		-5.7		2483.6		-4620	-8	470,503	1,902,390	
132	4950		" "	" "	5.8	-		-5.8		2483.5		-4950	-9	470,173	1,902,389	
TP	5279		165° 06' 12"	" "	5.3	-		-5.3		2484.0		-5279	-10	469,844	1,902,388	E.D.M
TP	5315		165° 02' 58"	" "	12.9	89° 55'	+7.7	-5.2		2484.1	TP	-5315	-5	469,803	1,902,400	E.D.M 4WAY
TP	5315				9.8	89° 51'	+4.6	-5.2			TP		+7			4-489,805 X-1,902,390 E.L. 2486c

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1-4-82		B. Cotcamp		M. KNAPP		6834		MPK fm		1	3			
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
CALIFORNIA		Little Buttes-7 1/2	CALIFORNIA	LOS ANGELES					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.	
										2484.1				
	5243		344° 17' 30" - 110°	+14.8°	7.2	-		+7.2			BS	-5242	+83	EOM
	5243				+10.4	89° 58'	-3.0	+7.4	2491.5		BS			
133	4950		344° 12' 54"	+14.8°	6.2	-		-6.2	2485.3			+4949	-85	469,505 1,902,405 EOM
134	4620		344° 13'	" "	7.5	-		-7.5	2484.0			+4619	-79	469,175 1,902,411
135	4290		" "	" "	8.3	-		-8.3	2483.2			+4289	-74	468,845 1,902,416
136	3960		" "	" "	8.0	-		-8.0	2483.5			+3959	-68	468,515 1,902,422
137	3630		" "	" "	8.7	-		-8.7	2482.8			+3629	-62	468,185 1,902,428
138	3300		" "	+14.8°	8.2	-		-8.2	2483.3			+3300	-57	467,856 1,902,433
139	2970		" "	" "	8.2	-		-8.2	2483.3			+2970	-51	467,526 1,902,439
140	2640		" "	" "	8.0	-		-8.0	2483.5			+2640	-45	467,196 1,902,445
141	2310		344° 13'	" "	7.9	-		-7.9	2483.6			+2310	-40	466,866 1,902,450
142	1980		" "	" "	7.0	-		-7.0	2484.5			+1980	-34	466,536 1,902,456
143	1650		" "	+14.8°	6.2	-		-6.2	2485.3			+1650	-28	466,206 1,902,462
144	1320		" "	" "	11.2	TH	+6.6	-4.6	2486.9			+1320	-23	465,876 1,902,467
145	990		" "	" "	4.0	-		-4.0	2487.5			+990	-17	465,546 1,902,473
146	660		" "	" "	7.9	TH	+3.3	-4.6	2486.9			+660	-11	465,216 1,902,479
147	330		" "	" "	6.4	TH	+1.7	-4.7	2486.8			+330	-6	464,886 1,902,484
148	0				5.4	-		-5.4	2486.1	TP		0	0	464,556 1,902,490

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1-4-82		B. Cotcamp		M. Knapp		6834		MPK <i>for</i>		1	4					
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER							
CALIFORNIA		Little Buttes	CALIFORNIA	LOS ANGELES					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	X
									2491.5							
149	41		150° 05' 03"	+14.8°	4.9	-		-4.9		2486.6	±	-40	+11	464,516	1,902,501	± E.L. 2487.0 <sup>y=464,530</sup> x=1,902,495
150	330		164° 56'	" "	4.3	-		-4.3		2487.2		-330	+2	464,226	1,902,492	
151	660		" "	" "	3.5	-		-3.5		2488.0		-660	+3	463,886	1,902,493	
152	990		" "	" "	2.9	-		-2.9		2488.6		-990	+5	463,566	1,902,495	
153	1320		" "	" "	3.3	-		-3.3		2488.2		-1320	+6	463,236	1,902,496	
154	1650		164° 56'	" "	3.9	-		-3.9		2487.6		-1650	+8	462,906	1,902,498	
155	1980		" "	" "	4.2	-		-4.2		2487.3		-1980	+9	462,576	1,902,499	
156	2310		" "	" "	5.0	-		-5.0		2486.5		-2310	+11	462,246	1,902,501	
157	2640		" "	" "	5.8	-		-5.8		2485.7		-2640	+12	461,916	1,902,502	
158	2970		" "	+14.8°	6.1	-		-6.1		2485.4		-2970	+14	461,586	1,902,504	
159	3300		" "	" "	6.4	-		-6.4		2485.1		-3300	+15	461,256	1,902,505	
160	3630		164° 56'	" "	7.5	-		-7.5		2484.0		-3630	+17	460,926	1,902,507	
161	3960		" "	" "	8.7	-		-8.7		2482.8		-3960	+18	460,596	1,902,508	
162	4290		" "	" "	9.5	-		-9.5		2482.0		-4290	+20	460,266	1,902,510	
163	4620		" "	+14.8°	10.2	-		-10.2		2481.3		-4620	+22	459,936	1,902,512	
164	4950		" "	" "	10.6	-		-10.6		2480.9		-4950	+23	459,606	1,902,513	
TP	5279		164° 56' 16"	" "	11.0	-		-11.0		2480.5		-5279	+24	459,276	1,902,514	
TP	5297		164° 53' 54"	" "	9.0	90° 01' 03"	-1.6	-10.6		2480.9	±	-5297	+28	459,255	1,902,525	4 way E.L. 2483.0
TP					9.0	269° 51'					TP	-4				E.D.M. y=459,255 x=1,902,525 Horiz CORR. y=-19, x=+28

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

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DATE <b>1-5-82</b>	INSTRUMENT MAN <b>B. COLEMAN</b>	ROD MAN <b>M. KWAPP</b>	PARTY NUMBER <b>6834</b>	NOTES CHECKED BY <b>MPK JM</b>	LINE NO. <b>1</b>	PAGE <b>5</b>
AREA <b>DEL SUR LITTLE BUTTES</b>	STATE <b>CALIFORNIA</b>	COUNTY <b>LOS ANGELES</b>	TWP	RANGE	PPM	PARTY MANAGER <b>L. DAVIS</b>

STATION NO.	SLOPE 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
<b>K</b>		<b>4 WAY INTERSECT</b>	<b>EL. 2483.0</b>							<b>2483.0</b>	<b>K</b>			<b>459,255 1,902,525</b>	<b>1/2 Hway EL. 2483.0 E.D.M.</b>	
	<b>5592</b>		<b>344° 40' 24" -180</b>	<b>+14.6</b>	<b>14.4</b>	<b>90° 14'</b>	<b>+22.8</b>	<b>+31.2</b>	<b>2520.2</b>		<b>BS</b>	<b>-5592.7</b>	<b>+71.3</b>			
	<b>5592</b>				<b>+4.6</b>	<b>90° 20'</b>	<b>52.5</b>	<b>+31.1</b>			<b>BS</b>					
<b>165</b>	<b>5274</b>		<b>344° 30'</b>	<b>+14.6</b>	<b>5.8</b>	<b>90° 20'</b>	<b>-30.7</b>	<b>-36.5</b>		<b>2483.7</b>		<b>+5273</b>	<b>-83</b>	<b>458,943</b>	<b>1,902,510</b>	<b>E.D.M.</b>
<b>166</b>	<b>4950</b>		<b>" "</b>	<b>" "</b>	<b>6.0</b>	<b>90° 20'</b>	<b>-28.8</b>	<b>-34.8</b>		<b>2485.4</b>		<b>+4949</b>	<b>-78</b>	<b>458,619</b>	<b>1,902,515</b>	
<b>167</b>	<b>4620</b>		<b>" "</b>	<b>" "</b>	<b>6.2</b>	<b>90° 20'</b>	<b>-26.9</b>	<b>-33.1</b>		<b>2487.1</b>		<b>+4619</b>	<b>-73</b>	<b>458,289</b>	<b>1,902,520</b>	
<b>168</b>	<b>4290</b>		<b>" "</b>	<b>" "</b>	<b>6.6</b>	<b>90° 20'</b>	<b>-25.0</b>	<b>-31.6</b>		<b>2488.6</b>		<b>+4289</b>	<b>-67</b>	<b>457,959</b>	<b>1,902,526</b>	
<b>169</b>	<b>3960</b>		<b>" "</b>	<b>" "</b>	<b>6.5</b>	<b>90° 20'</b>	<b>-23.0</b>	<b>-29.5</b>		<b>2490.7</b>		<b>+3960</b>	<b>-62</b>	<b>457,630</b>	<b>1,902,531</b>	
<b>170</b>	<b>3630</b>		<b>344° 30'</b>	<b>" "</b>	<b>7.0</b>	<b>90° 20'</b>	<b>-21.1</b>	<b>-28.1</b>		<b>2492.1</b>		<b>+3630</b>	<b>-57</b>	<b>457,300</b>	<b>1,902,536</b>	
<b>171</b>	<b>3300</b>		<b>" "</b>	<b>" "</b>	<b>7.3</b>	<b>90° 20'</b>	<b>-19.2</b>	<b>-26.5</b>		<b>2493.7</b>		<b>+3300</b>	<b>-52</b>	<b>456,970</b>	<b>1,902,541</b>	
<b>172</b>	<b>2970</b>		<b>" "</b>	<b>" "</b>	<b>7.9</b>	<b>90° 20'</b>	<b>-17.3</b>	<b>-25.2</b>		<b>2495.0</b>		<b>+2970</b>	<b>-47</b>	<b>456,640</b>	<b>1,902,546</b>	
<b>173</b>	<b>2640</b>		<b>" "</b>	<b>" "</b>	<b>8.3</b>	<b>90° 20'</b>	<b>-15.4</b>	<b>-23.7</b>		<b>2496.5</b>		<b>+2640</b>	<b>-41</b>	<b>456,310</b>	<b>1,902,552</b>	
<b>174</b>	<b>2310</b>		<b>" "</b>	<b>+14.6</b>	<b>8.5</b>	<b>90° 20'</b>	<b>-13.4</b>	<b>-21.9</b>		<b>2498.3</b>		<b>+2310</b>	<b>-36</b>	<b>455,980</b>	<b>1,902,557</b>	
<b>175</b>	<b>1980</b>		<b>" "</b>	<b>" "</b>	<b>8.4</b>	<b>90° 20'</b>	<b>-11.5</b>	<b>-19.9</b>		<b>2500.3</b>		<b>+1980</b>	<b>-31</b>	<b>455,650</b>	<b>1,902,562</b>	
<b>176</b>	<b>1650</b>		<b>" "</b>	<b>" "</b>	<b>7.1</b>	<b>90° 20'</b>	<b>-9.6</b>	<b>-16.7</b>		<b>2503.5</b>		<b>+1650</b>	<b>-26</b>	<b>455,320</b>	<b>1,902,567</b>	
<b>177</b>	<b>1320</b>		<b>" "</b>	<b>" "</b>	<b>6.5</b>	<b>90° 20'</b>	<b>-7.7</b>	<b>-14.2</b>		<b>2506.0</b>		<b>+1320</b>	<b>-21</b>	<b>454,990</b>	<b>1,902,572</b>	
<b>178</b>	<b>990</b>		<b>344° 30'</b>	<b>" "</b>	<b>6.0</b>	<b>90° 20'</b>	<b>-5.8</b>	<b>-11.8</b>		<b>2508.4</b>		<b>+990</b>	<b>-16</b>	<b>454,660</b>	<b>1,902,577</b>	
<b>179</b>	<b>660</b>		<b>" "</b>	<b>" "</b>	<b>6.3</b>	<b>90° 20'</b>	<b>-3.8</b>	<b>-10.1</b>		<b>2510.7</b>		<b>+660</b>	<b>-10</b>	<b>454,330</b>	<b>1,902,583</b>	
<b>180</b>	<b>330</b>		<b>" "</b>	<b>+14.6</b>	<b>4.7</b>	<b>90° 20'</b>	<b>-1.9</b>	<b>-6.6</b>		<b>2513.6</b>		<b>+330</b>	<b>-5</b>	<b>454,000</b>	<b>1,902,588</b>	

SURVEY NOTES-HIGH RESOLUTION DATA  
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Geosource Inc.

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1-5-82		B. COTCAMP		M. KWAPP		6834		MPK jm		1		6				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
DEL SUR				CALIFORNIA		LOS ANGELES								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 -	EAST + WEST -		Y	X
									2520.2							
#	281		347° 08' 25"	+14.6°	4.5	90° 20'	-1.6	-6.1		2514.1	#	+281	+9	453,951	1,902,602	J-453,975 *-1,902,645 # TRD EAST EL. 2515.0
181	0			"	5.4	-		-5.4		2514.8	T	0	0	453,670	1,902,593	
182	330		163° 40'	"	6.1	-		-6.1		2514.1		-330	+10	453,340	1,902,603	
183	660		" "	"	8.4	-		-8.4		2511.8		-660	+20	453,010	1,902,613	
184	990		" "	"	9.2	BH	-5.0	-14.2		2506.0		-990	+30	452,680	1,902,623	
185	1320		" "	+14.6°	8.5	90° 40'	-15.4	-23.9		2496.3		-1319	+40	452,351	1,902,633	
186	1650		163° 40'	"	12.1	90° 40'	-19.2	-31.3		2488.9		-1649	+50	452,021	1,902,643	
187	1980		" "	"	9.1	90° 40'	-23.0	-32.1		2488.1		-1979	+60	451,691	1,902,653	
188	2310		" "	"	4.3	90° 40'	-26.9	-31.2		2489.0		-2309	+70	451,361	1,902,663	
189	2640		" "	"	8.0	90° 30'	-23.0	-31.0		2489.2		-2639	+80	451,031	1,902,673	
190	2970		" "	+14.6°	13.0	90° 20'	-17.3	-30.3		2489.9		-2969	+90	450,701	1,902,683	
191	3300		" "	"	11.5	90° 20'	-19.2	-30.7		2489.5		-3298	+100	450,372	1,902,693	
192	3630		" "	"	9.8	90° 20'	-21.1	-30.9		2489.3		-3628	+110	450,042	1,902,703	
193	3960		163° 40'	"	10.1	BH	-19.8	-29.9		2490.3		-3958	+120	449,712	1,902,713	
194	4290		" "	"	7.2	BH	-21.5	-28.7		2491.5		-4288	+130	449,382	1,902,723	
195	4620		" "	+14.6°	4.3	BH	-23.1	-27.4		2492.8		-4618	+140	449,052	1,902,733	
196	4950		" "	"	1.8	BH	-24.8	-26.6		2493.6		-4948	+150	448,722	1,902,743	
#	4982		163° 29' 19"	"	1.2	BH	-24.9	-26.1		2494.1	#	-4979	+166	448,691	1,902,759	4 ways # 4 448,690 E.D.M x 1,902,795 EL 2495.0
197	5278		163° 43' 22"	+14.6°	12.2	90° 10'	-15.4	-27.6		2492.6	TP	-5276	+154	448,401	1,902,744	E.D.M
197	5278				6.1	90° 14'	-21.5	-27.6			TP					

SURVEY NOTES-HIGH RESOLUTION DATA  
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1-5-82		B. Cotcamp		M. Knapp		6834		MPK Jm		1	1				
AREA		TOPO MAP	STATE	COUNTY	TWP	RANGE	PPM	PARTY MANAGER							
			CALIFORNIA	LOS ANGELES				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
										2492.6					
	3299		345° 16' 26" - 180°	+14.6°	+11.7	-		+11.7	2501.4		BS	-3299	+7.3		E.O.M
	3299		" "	"	+6.1	90° 06'	+5.8	+11.9	1135		BS				
198	2970		345° 16'	"	9.6	-		-9.6		2494.8		+2970	-7	448,079	1,902,741
199	2640		" "	"	9.8	-		-9.8		2494.6		+2640	-6	447,749	1,902,742
200	2310		" "	"	13.4	-		-13.4		2491.0		+2310	-5	447,419	1,902,743
201	1980		" "	+14.6°	7.5	BH	-9.9	-17.4		2487.0		+1980	-5	447,089	1,902,743
202	1650		" "	"	6.8	BH	-8.3	-16.1		2489.3		+1650	-4	446,759	1,902,744
203	1320		345° 16'	"	12.1	-		-12.1		2492.3		+1320	-3	446,429	1,902,745
204	990		" "	"	8.7	-		-8.7		2495.7		+990	-2	446,099	1,902,746
205	660		" "	"	6.2	-		-6.2		2498.2		+660	-2	445,769	1,902,746
206	330		" "	+14.6°	6.2	TH	+1.7	-4.5		2499.9		+330	-1	445,439	1,902,747
207	0		" "	"	5.4	-		-5.4		2499.0	π	0	0	445,109	1,902,748
208	330		164° 56'	"	7.0	-		-7.0		2497.4		-330	+3	444,779	1,902,751
209	660		" "	"	7.8	-		-7.8		2496.6		-660	+5	444,449	1,902,753
210	990		" "	"	7.3	-		-7.3		2497.1		-990	+8	444,119	1,902,756
211	1320		" "	+14.6°	6.8	-		-6.8		2497.6		-1320	+11	443,789	1,902,759
≠	1502		164° 29' 08"	"	6.6	-		-6.6		2497.8	≠	-1502	+24	443,609	1,902,772
212	1650		164° 56'	"	7.0	-		-7.0		2497.4		-1650	+13	443,459	1,902,761
213	1980		" "	+14.6°	8.0	-		-8.0		2496.4		-1980	+16	443,129	1,902,764

443,550  
1,902,790  
1-way EL 2497.0

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1-5-82		B. Cotcamp		M. KNAPP		6834		MPK for		1	8				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIFORNIA		DEL SUR		CALIFORNIA		LOS ANGELES					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
									2504.4						
214	2310		164° 56'	+14.6°	8.5	-		-8.5		2495.9		-2310	+19	442,799	1,902,767
215	2640		" "	" "	7.8	-		-7.8		2496.6		-2640	+22	442,469	1,902,770
216	2970		" "	" "	8.5	89° 52'	+6.9	-1.6		2502.8		-2970	+24	442,139	1,902,772
217	3299		164° 56' 13"	+14.9°	7.3	89° 52'	+7.7	+0.4		2504.8	TP	-3299	+9 -3	441,817	1,902,754 E.D.M
217	3299				13.1	89° 46'	+13.4	+0.3			TP				r
	4288		344° 51' 28" - 180°	+14.9°	+1.2	-		+1.2	2506.0		BS	-4288	+18 -1		E.D.M.
	4288				+13.7	89° 50'	-12.5	+1.2			BS				
218	3960		344° 51'	" "	6.6	89° 56'	+4.6	-2.0		2504.0		+3960	-17	441,496	1,902,754
219	3630		" "	" "	7.6	89° 56'	+4.2	-3.4		2502.6		+3630	-16	441,166	1,902,755
220	3300		" "	" "	8.8	89° 56'	+3.8	-5.0		2501.0		+3300	-14	440,836	1,902,757
221	2970		" "	" "	9.8	89° 56'	+3.4	-6.4		2499.6		+2970	-13	440,506	1,902,758
222	2640		" "	+14.9°	11.7	89° 56'	+3.1	-8.6		2497.4		+2640	-12	440,176	1,902,759
223	2310		" "	" "	9.9	89° 56'	+2.7	-7.2		2498.8		+2310	-10	439,846	1,902,761
224	1980		" "	" "	10.3	89° 56'	+2.3	-8.0		2498.0		+1980	-9	439,516	1,902,762
225	1650		" "	" "	10.4	89° 56'	+1.9	-8.5		2497.5		+1650	-7	439,186	1,902,764
226	1320		344° 51'	" "	7.8	-		-7.8		2498.2		+1320	-6	438,856	1,902,765
227	990		" "	" "	6.7	-		-6.7		2499.3		+990	-4	438,526	1,902,767
#	730		346° 17' 36"	+14.9°	7.1	-		-7.1		2498.9	#	+730	+15	438,266	1,902,786 # 4 way EL, 2499.0
228	660		344° 51'	" "	7.5	-		-7.5		2498.5		+660	-3	438,186	1,902,768

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1-5-82		B. Cotcamp		M. KNAPP		6834		MPK <i>ym</i>		1	9				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIFORNIA		DEL SUR		CALIFORNIA		LOS ANGELES					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
									2506.0						
229	330		344° 51'	+14.9°	6.0	-		-6.0		2500.0		+330	-1	437,866	1,902,770
230	0				5.4	-		-5.4		2500.6	T	0	0	437,536	1,902,771
231	330		165° 00'	+14.9°	3.3	-		-3.3		2502.7		-330	+1	437,206	1,902,772
232	660		" "	" "	3.1	-		-3.1		2502.9		-660	+1	436,876	1,902,772
233	990		" "	" "	7.6	TH	+5.0	-2.6		2503.4		-990	+2	436,546	1,902,773
234	1320		" "	" "	9.2	TH	+6.6	-2.6		2503.4		-1320	+2	436,216	1,902,773
235	1650		" "	" "	9.9	TH	+8.3	-1.6		2504.4		-1650	+3	435,886	1,902,774
236	1980		" "	+14.9°	10.6	TH	+9.9	-0.7		2505.3		-1980	+3	435,556	1,902,774
237	2310		165° 00'	" "	11.3	TH	+11.6	+0.3		2506.3		-2310	+4	435,226	1,902,775
238	2640		" "	" "	10.5	TH	+13.2	+2.7		2508.7		-2640	+5	434,896	1,902,776
239	2970		" "	" "	9.4	TH	+14.9	+5.5		2511.5		-2970	+5	434,566	1,902,776
240	3300		" "	" "	7.9	TH	+16.5	+8.6		2514.6		-3300	+6	434,236	1,902,777
241	3630		" "	+14.9°	5.6	TH	+18.2	+12.6		2518.6		-3630	+6	433,906	1,902,777
242	3960		" "	" "	2.5	TH	+19.8	+17.3		2523.3		-3960	+7	433,576	1,902,778
243	4289		" "	" "	8.1	89° 36'	+29.9	+21.8		2527.8		-4289	+7	433,247	1,902,778
±	4592		164° 47' 12"	" "	5.0	89° 36' 18"	+31.3	+26.3		2532.3	±	-4592	+25	432,950	1,902,795
BM	4640		165° 29' 36"	" "	5.0	89° 36' 28"	+32.8	+27.8		2533.8	BM.				

4-432,950  
 4 W 4 W 4 1,902,795  
 SUR BENCH MARK U.S.C.S.  
 ELEV 2536.0  
 Horiz CORR. y=+44.1  
 x=-14

SURVEY NOTES-HIGH RESOLUTION DATA  
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Geosource Inc.

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DATE	1-6-82	INSTRUMENT MAN	B. Cotcamp	ROD MAN	M. KNAPP	PARTY NUMBER	6834	NOTES CHECKED BY	MPK jm	LINE NO.	1	PAGE	10
AREA	CALIFORNIA	TOPO MAP	DEL SUR	STATE	CALIFORNIA	COUNTY	LOS ANGELES	TWP		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.	
R			US COAST + Geodetic							2536.0	TI			scaled y-432,895 x-1,902,730 B.M. SUR. U.S.C. GS EL 2536
	3939		344° 17' 26" -180	+15.1	+4.3	91° 20'	+91.6	+95.9	2631.9	2536.0	BS	-3938	+42.1	
	3939				+13.5	91° 19'	+82.5	+96.0			BS	-5		
244	3959		344° 57'	+15.1	6.0	91° 20'	-92.1	-98.1		2533.8		+3959	+3	432,911 1,902,774
245	3630		" "	" "	7.9	91° 20'	-84.4	-92.3		2539.6		+3630	+3	432,582 1,902,774
246	3300		" "	" "	9.8	91° 20'	-76.8	-86.6		2545.3		+3300	+3	432,252 1,902,774
247	2970		" "	" "	12.2	91° 20'	-69.1	-81.3		2550.6		+2970	+3	431,922 1,902,774
248	2646		" "	" "	8.0	91° 28'	-67.6	-75.6		2556.3		+2640	+2	431,592 1,902,773
249	2310		344° 57'	+15.1	10.9	91° 28'	-59.1	-70.0		2561.9		+2310	+2	431,262 1,902,773
250	1980		" "	" "	13.3	91° 28'	-50.7	-64.0		2567.9		+1980	+2	430,932 1,902,773
251	1656		" "	" "	6.9	91° 44'	-49.9	-56.8		2575.1		+1650	+1	430,602 1,902,772
252	1320		" "	" "	8.5	91° 44'	-39.9	-48.4		2583.5		+1320	+1	430,272 1,902,772
253	990		" "	" "	9.3	91° 44'	-29.9	-39.2		2592.7		+990	+1	429,942 1,902,772
254	660		" "	+15.1	9.2	91° 44'	-20.0	-29.2		2602.7		+660	+1	429,612 1,902,772
255	330		" "	" "	7.7	91° 44'	-10.0	-17.7		2614.2		+330	±0	429,282 1,902,771
256	0				5.4	-		-5.4		2626.5	T	0	0	428,952 1,902,771
257	330		164° 57'	" "	7.2	87° 30'	+14.4	+7.2		2639.1		-330	±0	428,622 1,902,771
258	660		" "	+15.1	8.9	87° 30'	+28.8	+19.9		2651.8		-660	-1	428,292 1,902,770
259	990		" "	" "	11.0	87° 30'	+43.1	+32.1		2664.0		-990	-1	427,962 1,902,770

SURVEY NOTES-HIGH RESOLUTION DATA  
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-6-82		B. Cotcamp		M. Knupp		6834		MKL Jm		1	11			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
CALIFORNIA		DPL SUR		CALIFORNIA		LOS ANGELES					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.	
									2631.9					
260	1370		164° 57'	+15.1°	12.2	87° 30'	+57.5	+45.3		2679.2		-1320	-1	427,632 1,902,770
261	1378		164° 18' 06"	" "	12.1	87° 30'	+57.9	+45.8		2677.7	41	-1327	+14	427,625 1,902,785
261	1650		165° 23'	" "	12.8	87° 30'	+71.9	+59.1		2691.0		-1650	-14	427,302 1,902,757
262	1980		" "	" "	11.0	87° 30'	+86.3	+75.3		2707.2		-1980	-17	426,972 1,902,754
263	2310		" "	" "	5.7	87° 30'	+100.7	+95.0		2726.9		-2310	-19	426,642 1,902,752
264	2640		" "	" "	11.1	87° 10'	+130.3	+119.2		2751.1		-2640	-22	426,312 1,902,749
265	2968		165° 22' 44"	+15.1°	9.0	87° -	+155.1	+146.1			TP	-2964	-25	425,983 1,902,745 E.O.M.
265	2968		" "	" "	0.3	87° 10'	+146.5	+146.2		2718.1	TP			
	990		345° 54' 33" -180°	" "	+7.9	91° 30'	+25.9	+33.8	2811.9		BS	-990	-17	
	990				+5.0	91° 40'	+28.8	+33.8			BS			
266	660		345° 59'	+15.1°	6.3	92°	-23.0	-29.3		2782.6		+660	+12	425,648 1,902,739
267	330		" "	" "	8.7	92° -	-11.5	-20.2		2791.7		+330	+6	425,318 1,902,733
268	0				5.4	-	-	-5.4		2806.5	T	0	0	424,988 1,902,727
269	330		165° 38'	" "	3.0	88° -	+11.5	+8.5		2820.4		-330	-4	424,658 1,902,723
270	660		" "	" "	3.9	88° -	+23.0	+19.1		2831.0		-660	-8	424,328 1,902,719
271	985		163° 56' 24"	+15.1°	4.4	88° -	+34.4	+30.0		2841.9	TP	-984	+17	423,999 1,902,743 across the road
271	985				7.3	87° 50'	+37.2	+29.9			TP			
	330		14° 57' 24" +180°	+15.1°	+10.6	92° -	+11.5	+22.1			BS	-285	-165	
	330				+11.6	91° 50'	+10.6	+22.2	2864.1		BS			

SCALED  
Y-427,600  
X-1,902,795

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE					
1-6-82		B. Cotcamp		M. Knapp		6834		MPK Jm		1		12					
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER			
CALIFORNIA		DEL SUR		CALIF.		LOS ANGELES								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	
272	0			+15.1°	9.4	-		-5.4	2864.1								
273	330		234° 56'	" "	8.0	86° 20'	+21.1	+13.1		2858.7	π	0	0	423,709	1,902,577	AROUND COR.	
274	659		237° 47' 35"	" "	12.5	86° 48'	+36.7	+24.2		2877.2		-113	-310	423,596	1,902,267		
274	659			" "	12.1	86° 50'	+36.4	+24.3			TP	-194	-5	-629	423,510	1,901,947	
	660		60° 40' 11" +180°	+15.1°	+7.2	92° 30'	+28.8	+36.0	2924.4		BS	-162	-5	-639			
	660			" "	+9.1	92° 20'	+26.8	+35.9			BS						
275	330		60° 40'	+15.1°	11.0	92° 20'	-13.4	-24.4		2900.0		+81	+320	423,424	1,901,627		
276	0				5.4	-		-5.4		2919.0	π	0	0	423,343	1,901,307		
277	323		229° 09' 08"	+15.1°	1.2	87° 20'	+15.0	+13.8		2938.2	TP	-140	-5	-291	423,198	1,901,015	AROUND COR.
277	323			" "	2.1	87° 10'	+15.9	+13.8			TP						
	1320		13° 06' 38" +180°	+15.1°	+12.7	93° -	+69.0	+81.7			BS	-1162	-5	-623			
	1320			" "	+9.0	93° 10'	+72.8	+81.8	3020.0		BS						
278	990		13° 07'	+15.1°	9.9	93° 10'	-54.6	-64.5		2955.5		+872	+468	422,903	1,900,858		
279	660		" "	" "	10.9	93° 10'	-36.4	-47.3		2972.7		+582	+312	422,613	1,900,702		
280	330		" "	" "	9.2	93° 16'	-18.2	-27.4		2992.6		+291	+156	422,322	1,900,546		
281	0				5.4	-		-5.4		3014.6	π	0	0	422,031	1,900,310		
282	330		204° 03'	+15.1°	5.5	86° 40'	+19.2	+13.7		3033.7		-256	-208	421,775	1,900,182		
283	658		211° 55'	" "	9.3	86° 40'	+38.2	+28.9		3048.9		-449	-481	421,582	1,899,909		
FF	660		211° 24' 16"	" "	9.0	86° 40'	+38.3	+29.3		3049.3	FF	-454	-2	-478	421,575	1,899,910	UP ROAD SOUTH, AROUND CORNER -47 y-421575 HORIZ. y- x-1899910 CORR. x-12

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1-7-82		B. Cotcamp		M. Knapp		6834		MPK Jr		7		13				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
CALIFORNIA		DEL SUR		CALIF.		LOS ANGELES								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
									3020.0				422,031			
284	970		219° 53' 05"	+14.6°	1.4	87° -	+50.7	+49.3		3069.3	TP	-563 <sub>2</sub>	-788	421,460	1,899,602	AROUND CORNER
284	970				4.2	86° 50'	+53.5	+49.3			TP					
	670		64° 11' 40" +180°	+14.6°	+14.5	94° -	+46.6	+61.1	3130.4		BS	-130 <sub>2</sub>	-656			
	670				+2.8	95° -	+58.2	+61.0			BS					
285	330		65° 56'	+14.6°	6.0	95° -	-28.7	-34.7		3095.7		+54	+326	421,388	1,899,272	
286	0				5.4	-		-5.4		3125.0	TP	0	0	421,334	1,898,946	SET UP ACROSS ST.
287	330		267° 21'	+14.6°	4.2	86° -	+23.0	+18.8		3149.2		+68	-323	421,402	1,898,623	
288	660		" "	" "	6.0	86° -	+45.9	+39.9		3170.3		+137	-646	421,471	1,898,300	
289	990		267° 21' 06"	+14.6°	8.8	86° -	+68.9	+60.1		3190.5	TP	+205 <sub>2</sub>	-966	421,537	1,897,980	
289	990				5.9	86° 10'	+66.0	+60.1			TP					
	990		80° 34' +180°	+14.6°	+4.2	92° -	+51.7	+62.9			BS	+89 <sub>2</sub>	-985			
	990				+8.4	93° 10'	+54.6	+63.0	3253.5		BS					
290	660		79° 10'	+14.6°	5.5	93° 10'	-36.4	-41.9		3211.6		-43	+659	421,581	1,897,654	
291	330		83° 21'	" "	8.0	93° 10'	-18.2	-26.2		3227.3		-46	+327	421,578	1,897,322	
292	0				5.4	-		-5.4		3248.1	TP	0	0	421,624	1,896,995	
293	330		267° 18'	" "	8.7	85° 40'	+24.9	+16.2		3269.7		+68	-323	421,692	1,896,672	
294	060		" "	+14.6°	13.0	85° 40'	+49.7	+36.7		3290.2		+136	-646	421,760	1,896,349	
295	990		" "	" "	11.1	85° 50'	+71.7	+60.6		3314.1		+204	-969	421,828	1,896,026	
296	1320		" "	" "	10.2	85° 50'	+96.7	+85.5		3339.0		+272	-1292	421,896	1,895,703	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1-8-82		B. COLEMAN		M. KNAPP		6834		MPK dm		1	14				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
CALIFORNIA		DEL SUR		CALIFORNIA		LOS ANGELES						C. 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
									3253.5						
297	1650		267° 17' 55"	14.6°	5.4	85° 50'	+119.6	+114.2	}	3367.7	TP	+339.2	-1610	421,624	1,895,385
297	1650		"	"	10.3	85° 46'	+124.3	+114.0		TP					
	980		71° 22' 42" +180	"	+4.2	95° -	+85.1	+89.3	}	3457.0	BS	-68.2	-974		
	980		"	"	+7.0	94° 50'	+82.3	+89.3		BS					
298	660		67° 11'	14.6°	5.1	95° -	-57.3	-62.4		3394.6		+93	+653	421,984	1,895,064
299	330		69° 25'	"	5.8	95° -	-28.7	-34.5		3422.5		+63	+324	421,964	1,894,735
300	0		"	"	5.4	-	-	-5.4		3451.6	X	0	0	421,891	1,894,411
301	330		243° 11'	"	9.1	84° 30'	+31.5	+22.4		3479.4		-70	-323	421,821	1,894,088
302	660		246° 52'	"	12.9	84° 30'	+63.0	+50.1	}	3507.1	TP	-97.2	-650	421,792	1,893,761
302	660		"	"	11.0	84° 46'	+61.1	+50.1		TP					
	325		47° 28' 53" +180	14.6°	+14.8	-	-	+14.8	}	3521.9	BS	+68.2	-318		
	325		"	"	+13.1	BH	+1.6	+14.7		BS					
303	0		"	"	5.4	-	-	-5.4		3516.5	X	0	0	421,858	1,893,443
304	330		270° 54' 04"	"	12.9	90° 30'	-2.9	-15.8	}	3506.1	TP	+88.2	-318	421,944	1,893,125
304	330		"	"	12.0	90° 46'	-3.8	-15.8		TP					
	990		89° 56' 47" +180	14.6°	+8.2	87° 30'	-43.1	-34.9	}	3471.2	BS	+248.2	-957		
	990		"	"	+5.4	87° 40'	-40.3	-34.9		BS					
305	660		89° 57'	"	8.9	87° 40'	+26.8	+17.9		3489.1		-166	+639	422,024	1,892,807
306	330		"	"	7.7	87° 40'	+13.4	+5.7		3476.9		-83	+319	422,107	1,892,487

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-8-82		D. COTRAMP		M. KWAPP		6834		MPK Jm		1	15			
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER		
CALIFORNIA		DEL SUR		CALIFORNIA		LOS ANGELES						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.	
									3471.2					
307	0			141.6°	5.4	-		-5.4		3465.8	TP	0	0	422,190 1892,168
308	330		254° 24'	"	9.9	-		-9.9		3461.3		-6	-330	422,184 1891,838
309	660		247° 44'	"	3.7	-		-3.7		3467.5		-88	-654	422,162 1891,514
310	985		248° 03' 12"	"	2.2	-		-2.2		3469.0	TP	-126.2	-977	422,062 1891,191
310	985			"	7.1	TM	+4.9	-2.2			TP			
	660		85° 48' 59" + 180°	141.6°	+14.6	-		+14.6	3483.6		BS	+119.2	-649	
	660			"	+11.3	BM	+3.3	+14.6			BS			
310	330		84° 56'	"	8.0	90° 30'	-2.9	-10.9		3472.7		-55	+325	422,124 1890,867
312	0			"	5.4	-		-5.4		3478.2	TP	0	0	422,179 1890,542
313	330		261° 47'	"	7.0	93° -	-17.2	-24.2		3459.4		+37	-328	422,216 1890,214
314	660		259° 33'	141.6°	8.9	93° 30'	-40.2	-49.1		3434.5		+48	-658	422,227 1889,884
315	987		257° 39' 29"	"	8.7	93° 30'	-60.1	-68.8		3414.8	TP	+39.2	-984	422,216 1889,558
315	987			"	11.6	93° 20'	-57.3	-68.9			TP			
	660		70° 11' 12" + 180°	"	+7.9	88° -	-23.0	-15.1	3399.7		BS	-60.2	-657	
	660			"	6.0	88° 10'	-21.1	-15.1			BS			
316	330		70° 11'	141.6°	8.8	88° 10'	+10.6	+1.8		3401.5		+30	+329	422,184 1889,230
317	0			"										
317	166		79° 58' 56"	"	8.0	88° 10'	+5.3	-2.7		3397.0	TP	-13	+165	422,141 1888,066
317	0			"	5.4	-		-5.4		3394.3	TP	0	0	422,154 1888,901

Y-422,195  
X-1889,090

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-8-82		B. COTCAMP		M. KNAPP		6834		MPK dm		1		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		DEL SUR/LAKE Hughes		CALIFORNIA		LOS ANGELES								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 -		Y
									3399.7						
318	330		262° 58'	14.6°	6.0	90° 20'	-1.9	-7.9		3391.8		+36	-328	422,154	
319	660		261° 37' 48"	"	8.9	91° -	-11.5	-20.4			TP	+72 <sub>2</sub>	-656 <sub>+</sub>	422,190 422,224	1,888,573 1,888,246
319	660			"	6.9	91° 16'	-13.4	-20.3		3319.4	TP				
	1320		74° 54' 56" + 180°	"	+13.3	87° 50'	-49.9	-36.6	3342.8		BS	-11.2	-1319 <sub>+</sub>		
	1320			"	+14.8	87° 46'	-51.4	-36.6			BS				
320	990		76° 51'	14.6°	12.8	88° -	+34.5	+21.7		3364.5		-11	+990	422,200	1,887,918
321	660		" "	"	11.8	88° -	+23.0	+11.2		3354.0		-7	+660	422,204	1,887,588 Del Jur
322	330		" "	"	6.2	87° 20'	+15.3	+9.1		3351.9		-4	+330	422,207	1,887,258 Lake Hughes
323	0			"	5.4	-	-	-5.4		3337.4	X	0	0	422,211	1,886,928
324	176		258° 12' 02"	14.6°	12.3	-	-	-12.3		3330.5	X	+9	-176	422,220	1,886,752 // y-422,235 INT. x-1,886,765
324	231		206° 36' 09"	+15.5°	14.3	91° 36'	-6.0	-20.3		3322.5	TP	-171 <sub>2</sub>	-155 <sub>+</sub>	422,038	1,886,714 Round Pt
324	231			"	13.7	91° 40'	-6.7	-20.4			TP				BEND
	660		333 25 07 -180	"	+8.0	-	-	+8.0	3330.5		BS	-648 <sub>2</sub>	+127 <sub>+</sub>		
	660			"	+4.7	BM	+3.3	+8.0			BS				
325	330		333 23'	"	8.8	-	-	-8.8		3321.7		+324	-64	421,712	1,886,838
326	0			15.5°	5.4	-	-	-5.4		3325.1	X	0	0	421,388	1,886,902
327	330		152° 41'	"	3.8	TH	+1.7	-2.1		3328.4		-323	+68	421,065	1,886,770
328	665		152° 37' 24"	"	1.1	TH	+3.3	+2.2		3332.7	TP	-651 <sub>2</sub>	+137 <sub>+</sub>	420,735	1,887,040 across str.
328	665			"	3.6	89° 30'	+5.8	+2.2			TP				

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-8-82		B. Cotcamp		M. Knapp		6834		MPK Jm		1	17			
AREA		TOPO MAP	STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
CALIFORNIA		LAKE Hughes	CALIFORNIA	LOS ANGELES					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.	
										3332.7				
	331		348° 38' 12" - 180°	155°	+12.1	-		+12.1			BS	-330.2	-24.11	
	331			"	+10.5	84	+1.7	+12.2	3344.9		BS			
329	0			"	5.4	-		-5.4		3339.5	X	0	0	420,403 1,887,017 ACROSS STA.
330	332		196° 20'	"	7.2	88° 20'	+9.7	+2.5		3347.4		-282	-175	420,121 1,886,842 S TURN
TP	526		192° 28' 12"	"	6.7	88° 20'	+15.3	+8.6			TP	-464.2	-247.11	419,937 1,886,771
TP	526			155°	5.1	88° 30'	+13.8	+8.7		3353.6	TP			
	459		341° 17' 04" - 180°	"	+9.7	92° -	+16.0	+25.7	3379.3		BS	-458.2	+26.11	
	459			"	+11.0	91° 50'	+14.7	+25.7			BS			
331	330		337° 45'	"	8.8	92° -	-11.5	-20.3		3359.0		+328	-39	419,805 1,886,759
332	0			"	5.4	-		-5.4		3373.9	X	0	0	419,477 1,886,798
333	330		160° 03'	165°	10.2	89° -	+5.8	-4.4		3374.9		-329	+26	419,148 1,886,824
334	660		165° 55' 20"	"	1.8	89° -	+11.5	+9.7		3389.0	TP	-660.2	-16.11	418,815 1,886,783 ACROSS STA.
334	660			"	3.8	88° 50'	+13.4	+9.6			TP			
	241		353° 21' 06" - 180°	"	+12.8	-		+12.8	3401.8		BS	-238.2	-37.11	
	241			"	+11.6	84	+1.2	+12.8			BS			
335X	0			155°	5.4	-		-5.4		3396.4	X	0	0	418,575 1,886,747 AROUND CORN.
335	78		133° 02'	"	5.3	-		-5.3		3396.5		-67	+41	418,508 1,886,788
V	380		127° 56' 39"	"	4.0	-		-4.0		3397.8		-305	+226	418,270 1,886,973 VY-ROAD. y=418,275 x=1,886,935

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-8-82		B. COTCAMP		M. KWAPP		6834		MPK Jm		1		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		LAKE Hughes		CALIFORNIA		LOS ANGELES								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
									3401.8						
TP	315		129° 54' 36"	155°	5.3	-		-5.3		3396.5	TP	-259.2	+179.11	418,314	1,886,927
TP	315			11	3.8	81	-1.6	-5.4			TP				
	430		03° 52' 26" +180°	11	+5.2	92° 30'	+18.7	+23.9			BS	-406.2	-142.11		
	430			11	+4.0	92° 46'	+20.0	+24.0	3420.5		BS				
336	330		03° 02'	11	4.3	92° 30'	-14.4	-18.7		3401.8		+313	+105	418,219	1,886,891
337	0			155°	5.4	-		-5.4		3415.1	X	0	0	417,906	1,886,786
338	330		172° 16'	11	8.6	86° 30'	+20.1	+11.5		3432.0		-327	-45	417,519	1,886,741
339	661		172° 15' 44"	11	6.3	86° 30'	+40.3	+34.0			TP	-654.2	-88.11	417,250	1,886,699
339	661			11	4.3	86° 40'	+38.4	+34.1		3454.6	TP				
	660		0° 10' 47" 19" +180°	11	+6.4	94° -	+45.9	+52.3	3506.9		BS	-591.2	-291.11		
	660			155°	+4.3	93° 50'	+44.0	+52.3			BS				
340	330		9° 08'	11	8.7	94° -	-23.0	-31.7		3475.2		+300	+138	416,957	1,886,547
341	0			11	5.4	-		-5.4		3501.5	X	0	0	416,657	1,886,409
342	330		158° 40'	11	9.1	84° -	+24.3	+26.2		2532.1		-328	+34	416,329	1,886,443
341 TP	572		154° 12' 25"	11	13.7	84° -	+59.5	+45.8			TP	-560.3	+103.11	416,094	1,886,513
TP	572			155°	3.7	85° -	+49.7	+46.0		3552.9	TP				
	202		325° 37' 47" 50" +180°	11	+6.8	96° -	+21.0	+27.8			BS	-189.3	+68		
	202			11	+16.4	95° -	+17.5	+27.9	3580.8		BS				
343	128		329° 01'	11	9.6	95° -	-11.1	-20.7		3560.1		+123	-34	416,025	1,886,547
X	0				5.4	-		-5.4		3575.4	X	0	0	415,902	1,886,581

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DATE <b>1-8-82</b>	INSTRUMENT MAN <b>B.C. Camp</b>	ROD MAN <b>M. Knapp</b>	PARTY NUMBER <b>6834</b>	NOTES CHECKED BY <b>MK Jm</b>	LINE NO. <b>1</b>	PAGE <b>19</b>
AREA <b>CALIFORNIA</b>	TOPO MAP <b>Lake Hughes - T12</b>	STATE <b>CALIF.</b>	COUNTY <b>LOS ANGELES</b>	TWP	RANGE	PPM
					PARTY MANAGER <b>L. Davis</b>	

STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH	DEC	ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS TP	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
B.M.	155		96° 34' 19"	+15.5°	9.1	85° 30'	+12.1	13.0	3580.8							
	543		22° 32' 22" +180	+15.2°	10.0	94° -	+37.8	+41.8	3631.6		TP	-58.4	+143.1	415,840	1886,725	4-415,840 y-1886,725 B.M. USC+GS EL. 3584.0 Beno 1932 Horiz corr y-66' x-13'
	543				11.6	93° 50'	+36.2	+47.8			BS	-428.2	-332			
244	330		13° 06' 24"	+15.2°	12.9	98° 50'	-22.0	-34.9		3596.7		+291	+156	415,705	1886,549	
345	0				5.4	-	-	-5.4		3626.2	TP	0	0	415,414	1886,373	
346	332		209° 26' 16"	+15.2°	5.2	84° -	+34.5	+29.3		3660.9	TP	-235.2	-232	415,181	1886,161	ACROSS STR.
346	332				4.2	84° 10'	+33.6	+29.4			TP					
	580		41° 34' 20" +180	+15.2°	10.9	93° 20'	+33.7	+41.6			BS	-317.2	-484			
	580			" "	9.2	93° 30'	+35.3	+44.5	3705.4		BS					
347	250		40° 12' 24"	" "	2.5	93° 20'	-14.5	-17.0		3688.4		+142	+206	415,008	1885,883	
TP	0			" "	5.4	-	-	-5.4		3700.0	TP	0	0	414,866	1885,677	
348	19		301° 34' 24"	+15.2°	5.0	93° -	-1.0	-6.0		3699.4		+14	-13	414,880	1885,664	
348	80		240° 44'	" "	5.3	93° -	-4.2	-9.5		3695.9		-19	-78	414,847	1885,599	
349	410		225° 32'	" "	7.3	94° 30'	-32.1	-39.4		3666.0		-200	-358	414,666	1885,319	
350	742		223° 58' 04"	" "	13.2	94° 30'	-58.0	-71.2			TP	-379.2	-635.1	414,489	1885,043	
350	742			" "	11.1	94° 40'	-60.2	-71.3		3634.1	TP					
	660		40° 15' 09" +180	+15.2°	5.7	84° -	-68.6	-62.9	3571.2		BS	-372.1	-541.1			
	660			" "	3.8	84° 10'	-66.7	-62.9			BS					
351	330		37° 36' 30'	" "	3.9	84° 10'	+33.4	+29.5		3600.7		+199	+263	414,317	1884,766	

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-11-82		B. Cotcamp		M. KNAPP		6834		MPK Jm		1		20			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		LAKE Hughes-7 1/2		CALIF.		LOS ANGELES								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
									3571.2						
352	0				5.4	-		-5.4		3565.8	TP	0	0	414,118	1,884,503
353	330		214° 37'	+15.2	8.9	95°	-28.7	-37.6		3533.6	TP	-213	-252	413,905	1,884,251
353A	665		217° 39' 52"	" "	10.0	95°	-57.7	-67.7		3503.5	TP	-400	-528	413,719	1,883,976
354	665				8.0	95° 10'	-59.6	-67.6			TP				
	660		48° 06' 16" +186	+15.2	+0.3	85°	-57.3	-57.0	3446.5		BS	-295	-587		
	660				+2.2	84° 50'	-59.2	-57.0			BS				
355	330		44° 18' 30"	+15.2	7.3	84° 20'	+32.4	+25.1		3471.6		+167	+284	413,592	1,883,674
356	0				5.4	-		-5.4		3441.1	TP	0	0	413,405	1,883,390
357	330		216° 42'	+15.2	10.0	94° 30'	-25.8	-35.8		3410.7		-204	-260	413,221	1,883,130
358	660		215° 26'	" "	2.2	94° 30'	-51.6	-53.8		3392.7		-419	-510	413,006	1,882,880
359	990		215° 14'	" "	7.7	94° 30'	-77.4	-86.1		3361.4		-631	-763	412,794	1,882,627
360	1318		214° 18' 16"	+15.3	7.0	94° 30'	-103.1	-110.1		3336.4	TP	-852	-1001	412,574	1,882,390
360	1318				10.8	94° 20'	-99.3	-110.1			TP				
	663		41° 27' 17" +180	+15.3	+8.9	86°	-46.1	-37.2			BS	-363	-553		
	663				+3.1	86° 30'	-40.4	-37.3	3299.1		BS				
361	330		41° 15'	+15.3	5.8	86° 20'	+21.1	+15.3		3314.4		+182	+275	412,394	1,882,113
362	0				5.4	-		-5.4		3293.7	TP	0	0	412,212	1,881,838
363	330		223° 28'	+15.3	8.8	94°	-23.0	-31.8		3267.3		-171	-282	412,041	1,881,556
364	661		221° 14' 43"	" "	6.8	94° 30'	-51.7	-58.5			TP	-363	-550	411,850	1,881,289
364	661				12.6	94°	-46.0	-58.6		3240.5	TP				

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DATE	1-11-82	INSTRUMENT MAN	B. Cotcamp	ROD MAN	M. Knapp	PARTY NUMBER	6834	NOTES CHECKED BY	MPK Jm	LINE NO.	1	PAGE	21
AREA	CALIFORNIA	TOPO MAP	Lake Hughes	STATE		COUNTY		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.	
										3240.5				
991			51° 00' 28" +180	+15.3	+3.0	86° 30'	-60.4	-57.4	3183.1		BS	-397.1	-906.1	
991					+5.9	86° 20'	-63.2	-57.3			BS			
365	660		51° 00'	+15.3	9.1	86° 20'	+42.1	+33.0		3216.1		+265	+604	411,719 1,880,988
366	330		" "	" "	8.3	86° 20'	+21.1	+12.8		3195.9		+133	+302	411,587 1,880,686
367	0				5.4	-		-5.4		3177.7	T	0	0	411,454 1,880,384
368	330		231° 25'	+15.3	9.1	93° -	-17.2	-26.3		3156.8		-130	-303	411,324 1,880,081
369	664		230° 42' 37"	" "	2.8	93° -	-34.7	-37.5			TP	-270.1	-606.1	411,185 1,879,779 ACROSS STA.
369	664				4.8	92° 50'	-32.8	-37.6		3145.5	TP			
	987		62° 16' 03" +180	+15.3	+7.5	86° 30'	-60.1	-52.6			BS	-212.1	-962.1	
	987				+4.6	86° 40'	-52.3	-52.7	3092.8		BS			
370	660		61° 04'	+15.3	6.7	86° 10'	+44.0	+37.3		3130.1		+156	+641	411,130 1,879,459
371	330		" "	" "	7.8	86° 10'	+22.0	+14.2		3107.0		+78	+321	411,052 1,879,139
372	0				5.4	-		-5.4		3087.4	T	0	0	410,974 1,878,818
373	330		226° 57'	+15.3	10.8	92° -	-11.5	-22.3		3070.5		-154	-292	410,820 1,878,526
374	660		224° 34'	" "	5.9	92° -	-23.0	-28.9		3063.9		-331	-571	410,643 1,878,247
375	990		" "	" "	12.0	92° -	-34.5	-46.5		3046.3		-497	-856	410,477 1,877,962
375	1180		224° 01' 23"	" "	13.1	92° 10'	-44.6	-57.7		3035.1	T	-602	-1014	410,372 1,877,804 Tilted south y=410,390 x=1,877,800
376	1320		224° 12' 20"	" "	10.9	92° 26'	-56.0	-66.9		3025.9	TP	-669.1	-1136.1	410,306 1,877,683
376	1320				13.2	92° 20'	-53.7	-66.9			TP			

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-11-82		B. Cotcamp		M. KNAPP		6834		MPK dm		1		22			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		LAKE Hughes / Green Valley		CALIFORNIA		LOS ANGELES								L. DAVIS	
STATION NO.	SLOPE DISTANCE	PLOTTING DISTANCE	AZIMUTH FROM MAGNETIC NORTH		ROD READING	VERTICAL ANGLE	VERTICAL CHANGE	DIFFERENCE IN ELEVATION	ELEVATION OF INSTRUMENT	ELEVATION OF STATION	BS X TP	COORDINATES		REMARKS	
			DEC	°								NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									3025.9						
	659		43° 51' 31" +180	+15.3	+2.3	88° -	-23.0	-20.7	3005.2		BS	-338.2	-565.1		
377	330		43° 52'	" "	11.5	88° -	+11.5	0.0	3005.2		BS	+169	+283	410,139	1,877,402
±	55		53° 19' 10"	" "	7.3	88° -	+1.9	-5.4	2999.8		±	+20	+51	409,990	1,877,170 = 1 TPO south y=409,995 x=1,877,170
378	0				5.4	-		-5.4	2999.8		±	0	0	409,970	1,877,119
379	330		215° 06'	+15.3	5.9	92° 40'	-15.3	-21.2	2984.0			-210	-254	409,760	1,876,865
380	660		214° 19'	" "	12.2	92° 40'	-30.7	-42.9	2962.3			-428	-503	409,542	1,876,616
381	990		214° 13' 21"	" "	10.5	92° 30'	-43.1	-53.6	2951.6		TP	-642.2	-752	409,330	1,876,367
381	990				13.3	92° 20'	-40.3	-53.6			TP				
	990		214° 13' 21" +180	+15.3	+10.5	92° 30'	+43.1	+53.6	3005.2		BS	+642.2	+752		
	990				+13.3	92° 20'	+40.3	+53.6			BS				
±	0				5.4	-		-5.4	2999.8		±	0	0	409,974	1,877,119
±	55		53° 19' 10"	+15.3	7.3	-		-5.3	2999.9		±	+20.1	+51	409,995	1,877,170 = 1 TPO south y=409,995 x=1,877,170
TP	1385				3.0	87° 20'	+64.4	+61.4	3066.6		TP				SCALE y=409,995 x=1,877,170
TP	1385				7.0	87° 10'	+68.4	+61.4			TP				
	645				+4.7	92° 10'	+24.4	+29.1	3095.7		BS				
	645				+6.6	92° -	+22.5	+29.1			BS				
±	0				5.4	-		-5.4	3090.3		±				
TP	941				7.1	86° 30'	+57.3	+50.2	3145.9		TP				
TP	941				9.9	86° 20'	+60.1	+50.2			TP				

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-12-82		B. Cotcamp		M. Knapp		6834		MPK Jm		1	23			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
CALIFORNIA		LAKE Hughes-		CALIF.		LOS ANGELES					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.	
										3145.9				
	1502				+2.2	93° 20'	+87.2	+89.4	3235.3		BS			
	1502				+6.6	93° 10'	+82.9	+89.5			BS			
X	0				5.4	-		-5.4		3229.9	X			
TP	926				3.0	85° 40'	+69.8	+66.8			TP			
TP	926				5.7	85° 30'	+72.4	+66.7		3302.0	TP			
	2000				+0.4	94° 30'	+156.4	+156.8	3458.8		BS			
	2000				+6.3	94° 20'	+150.7	+157.0			BS			
X	0				5.4	-		-5.4		3453.4	X			
TP	750				5.1	84° 40'	+69.4	+64.3		3523.1	TP			
TP	750				7.2	84° 30'	+71.6	+64.4			TP			
	902				+12.0	95° 20'	+83.5	+95.5	3618.6		BS			
	902				+9.4	95° 30'	+86.1	+95.5			BS			
X	0				5.4	-		-5.4		3613.2	X			
TP	937				7.6	84° 30'	+89.4	+81.8		3700.4	TP			
TP	937				4.9	84° 40'	+86.7	+81.8			TP			
	658				+11.8	85° 40'	-49.6	-37.8	3662.6		BS			
	658				+9.9	85° 50'	-47.7	-37.8			BS			
X	0				5.4	-		-5.4		3657.2	X			
FL	822				11.4	94° 40'	-66.7	-78.1		3584.5	FL			
												EL	3584.0	U.S.G.+C.S BENCH MARK BEND 1932