

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			
1-28-82		B. COCCAMP		M. KNAPP		6834		MPK		5		8			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		CALIFORNIA CITY SOUTH		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	X
K <sub>1</sub>			27   26 SECTION CORNER 34   35			ELEVATION 2388.0			2388.0	K <sub>1</sub>		550,945 2,025,110	SCAMP SEC. CORNER EL. 2388.0		
	4191		164° 19' 50" + 180° 15.0'	+15.0	+4.0	90° 20' + 24.4	+28.4			BS	+4191 -6	-49 +2			
	4191				+11.2	90° 14' + 17.1	+28.3	2416.3		BS					
1	4620		164° 05' 14"	+15.0	3.0	90° 20' - 26.9	-29.9		2386.4		-4619	+74	550,511 2,025,137		
2	4290		164° 05'	" "	3.7	90° 20' - 25.0	-28.7		2389.6		-4289	+69	550,841 2,025,132		
3	3960		" "	" "	5.2	90° 20' - 23.0	-28.2		2388.1		-3959	+63	551,171 2,025,126		
4	3630		" "	" "	6.8	90° 20' - 21.1	-27.9		2388.4		-3630	+58	551,500 2,025,121		
5	3300		" "	" "	8.9	90° 20' - 19.2	-28.1		2388.2		-3300	+53	551,830 2,025,116		
6	2970		" "	" "	9.7	90° 20' - 17.3	-27.0		2389.3		-2970	+48	552,160 2,025,111		
7	2640		" "	+15.0	8.0	90° 20' - 15.4	-23.4		2392.9		-2640	+42	552,490 2,025,105		
8	2310		" "	" "	8.2	90° 20' - 13.4	-21.6		2394.7		-2310	+37	552,820 2,025,100		
9	1980		" "	" "	8.6	90° 20' - 11.5	-20.1		2396.2		-1980	+32	553,150 2,025,095		
10	1650		164° 05'	" "	8.3	90° 20' - 9.6	-17.9		2398.4		-1650	+26	553,480 2,025,089		
11	1525		164° 34' 41"	" "	7.5	90° 20' - 8.9	-16.4		2399.9	#	-1525	+11	553,605 2,025,074 4 way EL. 2399		
12	1320		164° 05'	+15.0	6.8	90° 20' - 7.7	-14.5		2401.8		-1320	+21	553,810 2,025,084		
13	990		" "	" "	6.6	90° 20' - 5.8	-12.4		2403.9		-990	+16	554,140 2,025,079		
14	660		" "	" "	7.8	90° 20' - 3.8	-11.6		2404.7		-660	+11	554,470 2,025,074		
15	330		" "	" "	7.1	90° 20' - 1.9	-9.0		2407.3		-330	+5	554,800 2,025,068		
15	0				5.4	-	-5.4		2410.9	T	0	0	555,130 2,025,063		

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1-28-82		B. Cotcamp		M. Knapp		6834		MPK		5	2				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIF.		CALIF. 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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2416.3						
16	330		344° 37'	+15.0°	7.0	88° 40'	+7.7	+0.7		2417.0		+330	-2	555,460	2,025,061
17	660		" "	"	7.8	88° 40'	+15.4	+7.6		2423.9		+660	-4	555,790	2,025,059
18	990		" "	"	8.6	88° 40'	+23.0	+14.4		2430.7		+990	-7	556,120	2,025,056
19	1320		" "	"	8.7	88° 40'	+30.7	+22.0		2438.3		+1320	-9	556,450	2,025,054
20	1650		" "	"	7.2	88° 40'	+38.4	+31.2		2447.5		+1650	-11	556,780	2,025,052
21	1980		344° 37'	+15.0°	6.0	88° 40'	+46.1	+40.1		2456.4		+1980	-13	557,110	2,025,050
22	2310		" "	"	5.9	88° 40'	+53.7	+47.8		2464.1		+2310	-15	557,440	2,025,048
23	2640		" "	"	4.7	88° 40'	+61.4	+56.7		2473.0		+2640	-18	557,770	2,025,045
24	2970		" "	"	3.0	88° 40'	+69.1	+66.1		2482.4		+2970	-20	558,100	2,025,043
25	3300		" "	"	10.1	88° 30'	+86.4	+76.3		2492.6		+3300	-22	558,430	2,025,041
26	3630		" "	"	8.8	88° 30'	+95.0	+86.2		2502.5		+3630	-24	558,760	2,025,039
Bm	3915		345° 07' 36"	+15.0°	6.1	88° 30'	+102.5	+96.4		2512.7	Bm				
TP	3873		344° 19' 23"	"	7.8	88° 30'	+101.4	+93.6		2509.9	TP	+3871	-46	559,001	2,025,017
27	3760		344° 37'	"	7.6	88° 30'	+103.6	+96.0		2512.3		+3960	-26	559,690	2,025,037
28	4290		" "	"	5.4	88° 30'	+112.3	+106.9		2523.2		+4290	-29	559,420	2,025,034
29	4620		" "	"	2.8	88° 30'	+120.9	+118.1		2534.4		+4620	-31	559,750	2,025,032
30	4950		" "	"	5.2	88° 30'	+129.5	+124.3		2540.6		+4950	-33	560,080	2,025,030
31	5282		344° 37' 17"	+15.0°	13.6	88° 30'	+138.2	+124.6	2540.9		TP	+5280	-35	560,404	2,025,030
31	5282				12.0	88° 31'	+136.7	+124.7			TP				

X=2025.035  
Y=558,990 ELEV. 2609.0

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1,1449

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1-28-82		B. Cotcamp		M. Knapp		6834		MPK JN		5	3				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIFORNIA		CALIF. 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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										2540.9					
	5281		164° 33' 56" +180°	+150°	1.6	88° 54'	-101.3	-99.72	2441.1		BS	+5280	-40.2		E.O.M.
	5281			"	+15.0	88° 45"	-114.9	-99.9)			BS				
32	4950		164° 34'	"	6.5	88° 54'	+95.0	+88.5		2529.6		-4950	+37	560,708	2,025,029
33	4620		" "	"	7.0	89° -	+80.6	+73.6		2514.7		-4620	+35	561,058	2,025,027
34	4290		" "	"	6.3	89° 06'	+67.4	+61.1		2502.2		-4290	+32	561,388	2,025,024
35	3960		" "	"	12.0	89° 06'	+62.2	+50.2		2491.3		-3960	+30	561,718	2,025,022
36	3630		" "	+150°	13.4	89° 06'	+57.0	+43.6		2484.7		-3630	+27	562,048	2,025,019
37	3300		" "	"	72.3	89° 06'	+51.8	+39.5		2480.6		-3300	+25	562,378	2,025,017
38	2970		" "	"	11.0	89° 06'	+46.7	+35.7		2476.8		-2970	+22	562,708	2,025,014
39	2640		" "	"	13.2	89° -	+46.1	+32.9		2474.0		-2640	+20	563,038	2,025,012
40	2340		164° 50' 22"	"	9.6	89° -	+40.8	+31.2		2472.3	IF	-2340	+7	563,368	2,024,999
41	2310		164° 34'	"	9.7	89° -	+40.3	+30.6		2471.7		-2310	+17	563,698	2,025,009
42	1980		" "	+150°	8.2	89° -	+34.6	+26.4		2467.5		-1980	+15	564,028	2,025,007
43	1650		" "	"	7.2	89° -	+28.8	+21.6		2462.7		-1650	+12	564,358	2,025,004
43-1/4	1338		165° 06' 41"	"	6.3	89° -	+23.3	+17.0		2458.1	IF	-1338	-3	564,688	2,025,989
44	1320		164° 34'	"	6.2	89° -	+23.0	+16.8		2457.9		-1320	+10	564,358	2,025,002
44	990		" "	"	6.3	89° -	+17.3	+11.0		2452.1		-990	+7	564,688	2,024,999
45	660		" "	"	5.9	89° -	+11.5	+5.6		2446.7		-660	+5	565,018	2,024,997
46	330		" "	+150°	5.3	89° -	+5.8	+0.5		2441.6		-330	+3	565,348	2,024,995

X = 2,025,000  
Y = 563,330

V = 564,365  
X = 2,024,995 ELEV. 2439.0

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1-28-82		B. Cotcamp		M. Knapp		6834		MPK JIV		5	4				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIF.		CALIF. 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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2441.1						
47	0			+150°	5.4	-		-5.4		2435.7	7	0	0	565,678	2,024,992
48	330		344° 57'	"	5.8	90° 40'	-3.8	-9.6		2431.5		+330	±0	566,008	2,024,992
49	660		" "	"	5.3	90° 40'	-7.7	-13.0		2428.1		+660	-1	566,388	2,024,991
50	990		" "	"	6.5	90° 40'	-11.5	-18.0		2423.1		+990	-1	566,668	2,024,991
51	1320		" "	"	6.8	90° 40'	-15.4	-22.2		2418.9		+1320	-1	566,998	2,024,991
7#	1329		343° 55' 42"	"	6.3	90° 40'	-15.5	-21.8		2419.3	7#	+1329	-25		2,024,967
52	1650		344° 57'	+150°	7.8	90° 40'	-19.2	-27.0		2414.1		+1650	-1	567,328	2,024,991
53	1980		344° 56'	"	7.8	90° 40'	-23.0	-30.8		2410.3		+1980	-2	567,658	2,024,990
54	2310		" "	"	6.5	90° 40'	-26.9	-33.4		2407.7		+2310	-3	567,988	2,024,989
55	2640		" "	"	3.2	90° 40'	-30.7	-33.9		2407.2		+2640	-3	568,318	2,024,989
56	2970		" "	"	7.3	90° 40'	-34.5	-36.8		2404.3		+2970	-3	568,648	2,024,989
57	3300		" "	"	6.0	90° 40'	-38.4	-44.4		2396.7		+3300	-4	568,978	2,024,988
58	3630		344° 56'	+150°	7.9	90° 40'	-42.2	-50.1		2391.0		+3630	-4	569,308	2,024,988
59	3960		" "	"	8.0	90° 40'	-46.1	-54.1		2387.0		+3960	-5	569,638	2,024,987
60	4290		" "	"	7.5	90° 40'	-49.9	-57.4		2383.7		+4290	-5	569,968	2,024,987
61	4620		" "	"	7.0	90° 40'	-53.7	-60.7		2380.4		+4620	-5	570,298	2,024,987
TP	4684		344° 53' 08"	"	6.6	90° 40'	-54.5	-61.2			TP	+4684	-9	570,355	2,024,985
TP	4684			+150°	12.2	90° 36'	-49.0	-61.2		2379.9	TP				

f=566,995  
x=2,024,960 4 way

E.D.M. = -25' x=+8'  
HORIZ. CORE. y=+8'  
V=570,355 TPO west  
X=2,024,985 ELEV. 2379.1

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-29-82		B. G. Camp		M. Knapp		6834		MPK JM		5	5			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
CALIF.		CALIF. 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 X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
										2319.9				SCALED TAKEOFF Y=570,355 X=2,024,985
													570,355 2,024,985	
	5214		165° 21' 56" +180°	+14.8°	+11.3	TH	-26.1	-14.8	2365.1		BS	+5214	+15.1	E.D.M.
	75214			"	+9.6	89° 44'	-24.2	-14.6			BS			
62	4950		165° 07'	"	2.2	89° 50'	+14.4	+12.2		2377.3		-4950	+7	570,619 2,025,008 E.D.M.
63	4620		" "	"	4.6	89° 50'	+13.4	+8.8		2373.9		-4620	+7	570,949 2,025,008
64	4290		" "	"	5.3	89° 50'	+12.5	+7.2		2372.3		-4290	+6	571,279 2,025,007
65	3960		" "	"	6.3	89° 50'	+11.5	+5.2		2370.3		-3960	+6	571,609 2,025,007
66	3630		" "	+14.8°	8.0	89° 50'	+10.6	+2.6		2367.7		-3630	+5	571,939 2,025,006
67	3300		" "	"	9.0	89° 50'	+9.6	+0.6		2365.7		-3300	+5	572,269 2,025,006
B.M.	3194		163° 47' 22"	"	10.2	89° 50'	+9.3	-0.9		2364.2	B.M.			E.D.M. BENCH MARK Y=572,350 X=2,024,985
#1	3250		165° 20' 54"	"	9.2	89° 50'	+9.5	+0.3		2365.4	#1	-3250	-8	572,319 2,024,993
68	2970		165° 07'	"	9.8	89° 50'	+8.6	-1.2		2363.9		-2970	+4	572,599 2,025,005
69	2640		" "	"	9.4	89° 50'	+7.7	-1.7		2363.4		-2640	+4	572,929 2,025,005
70	2310		" "	+14.8°	10.1	89° 50'	+6.7	-3.4		2361.7		-2310	+3	573,259 2,025,004
71	1980		" "	"	9.4	89° 50'	+5.8	-3.6		2361.5		-1980	+3	573,589 2,025,004
72	1650		" "	"	7.8	89° 50'	+4.8	-3.0		2362.1		-1650	+2	573,919 2,025,003
73	1320		" "	"	6.7	89° 50'	+3.8	-2.9		2362.2		-1320	+2	574,249 2,025,003
74	990		" "	"	6.4	89° 50'	+2.9	-3.5		2361.6		-990	+1	574,579 2,025,002
75	660		165° 07'	+14.8°	6.3	89° 50'	+1.9	-4.4		2360.7		-660	+1	574,909 2,025,002

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1-29-82		B. Cotcamp		M. Knapp		6834		MPK JM		5	6				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIFORNIA		CALIF. 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 X TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2365.1						
76	330		165° 07'	+14.8°	5.7	89° 50'	+1.0	-4.7		2360.4		-330	±0	575,239	2,025,001
77	0			"	5.4	-		-5.4		2359.7	TP	0	0	575,569	2,025,001
78	330		345° 14'	"	5.3	-		-5.3		2359.8		+330	±0	575,899	2,025,001
79	660		" "	"	5.2	-		-5.2		2359.9		+660	±0	576,229	2,025,001
80	990		" "	"	5.2	-		-5.2		2359.9		+990	+1	576,559	2,025,002
81	1320		" "	"	6.4	-		-6.4		2358.7		+1320	+1	576,889	2,025,002
82	1650		" "	+14.8°	6.8	-		-6.8		2358.3		+1650	+1	577,219	2,025,002
83	1980		" "	"	5.9	-		-5.9		2359.2		+1980	+1	577,549	2,025,002
#	2145		344° 36' 20"	"	5.0	-		-5.0		2360.1	#	+2145	-22	577,714	2,024,979
84	2310		345° 14'	"	5.0	-		-5.0		2360.1		+2310	+1	577,879	2,025,002
85	2640		" "	"	5.8	-		-5.8		2359.3		+2640	+2	578,209	2,025,003
86	2970		" "	"	6.5	-		-6.5		2358.6		+2970	+2	578,539	2,025,003
87	3300		" "	+14.8°	5.8	-		-5.8		2359.3		+3300	+2	578,869	2,025,003
88	3630		" "	"	5.2	-		-5.2		2359.9		+3630	+2	579,199	2,025,003
89	3960		" "	"	5.9	-		-5.9		2359.2		+3960	+2	579,529	2,025,003
90	4290		" "	"	6.0	-		-6.0		2359.1		+4290	+3	579,859	2,025,004
91	4620		" "	"	5.8	-		-5.8		2359.3		+4620	+3	580,189	2,025,004
92	4950		" "	+14.8°	6.3	-		-6.3		2358.8		+4950	+3	580,519	2,025,004
93	5280		345° 14' 27"	+14.6	7.2	-		-7.2		2357.9	TP	+5280	-15	580,849	2,024,987
93	5280				10.1	89° 58'	+3.1	-7.0			TP				E.P.M.

y-577,710  
x-2024,960

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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
1-29-82		B. Cotcamp		M. Knapp		6834		MPK Jm		5	7			
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER			
CALIF.		CALIF. 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 X TP	COORDINATES		REMARKS
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.	
										2357.9				
	1980		163° 50' 42" +180	+14.6°	+4.2	-		+4.2			BS	+1979	-54	
	1980			"	+14.0	TH	-9.9	+4.1	2362.0		BS			
94	1650		163° 51'	"	4.0	-		-4.0		2358.0		-1649	+45	581,179 2,024,979
#	1640		163° 58' 17"	"	3.9	-		-3.9		2358.1	#	-1639	+41	581,184 2,024,975 4way INT. 4-581,200 x-2,024,955
95	1320		163° 25'	"	4.0	-		-4.0		2358.0		-1319	+46	581,509 2,024,980
96	990		162° 52'	"	4.9	-		-4.9		2357.1		-989	+44	581,839 2,024,978
97	660		161° 24'	+14.6°	5.4	-		-5.4		2356.6		-658	+46	582,170 2,024,980
98	330		157° 24'	"	5.7	-		-5.7		2356.3		-327	+46	582,501 2,024,980
99	0			"	5.4	-		-5.4		2356.6	π	0	0	582,828 2,024,934
100	330		313° 02'	"	4.3	-		-4.3		2357.7		+279	-177	583,107 2,024,757
101	660		308° 11'	"	4.2	-		-4.2		2357.8		+526	-399	583,354 2,024,535
102	990		305° 34'	+14.6°	4.0	-		-4.0		2358.0		+760	-634	583,588 2,024,300
103	1315		303° 46'	"	11.2	TH	+6.6	-4.6		2357.4		+983	-874	583,811 2,024,060
104	1645		302° 56'	+14.6°	6.4	-		-6.4		2355.6		+1213	-1111	584,041 2,023,823
105	1971		302° 26' 14"	+14.8°	7.4	-		-7.4		2354.6	TP	+1447	-1338	584,275 2,023,597 E.D.M
105	1971				10.7	89° 54'	+3.4	-7.3			TP			
	2310		119° 54' 12" +180	+14.8°	+7.0	-		+7.0	2361.6		BS	+1625	-1642	
	2310				+11.0	89° 54'	-4.0	+7.0			BS			
106	1980		119° 54'	+14.8°	6.8	-		-6.8		2354.8		-1393	+1407	584,507 2,023,363

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-29-82		B. Cotcamp		M. Knapp		6834		MPK Jm		5		8			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		CALIF. CITY SOUTM		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
									2361.6						
107	1650		119° 54'	+14.8	5.8	-		-5.8		2355.8		-1161	+1173	584,739	2,023,129
108	1320		" "	" "	5.1	-		-5.1		2356.5		-928	+938	584,972	2,022,894
109	990		" "	" "	5.2	-		-5.2		2356.4		-696	+704	585,204	2,022,660
110	660		" "	" "	5.7	-		-5.7		2355.9		-464	+469	585,436	2,022,425
111	330		" "	" "	5.4	-		-5.4		2356.2		-232	+235	585,668	2,022,191
112	0				5.4	-		-5.4		2356.2	TP	0	0	585,900	2,021,956
113	330		299° 48'	+14.8	5.2	-		-5.2		2356.4		+232	-235	586,132	2,021,721
114	660		" "	" "	4.6	-		-4.6		2357.0		+463	-470	586,363	2,021,486
Bm	751		302° 56' 13"	" "	2.8	-		-2.8		2358.8	Bm	+556	-505	586,456	2,021,451
115	990		299° 48'	" "	4.2	-		-4.2		2357.4		+695	-705	586,595	2,021,251
116	1320		" "	+14.8	4.0	-		-4.0		2357.6		+927	-940	586,827	2,021,016
117	1650		" "	" "	6.5	-		-6.5		2355.1		+1159	-1175	587,059	2,020,781
118	1980		" "	" "	10.3	-		-10.3		2351.3		+1390	-1410	587,290	2,020,546
119	2310		299° 47' 40"	+15.0	11.3	-		-11.3		2350.3	TP	+1628	-1639	587,528	2,020,318
119	2310				7.2	90° 06'	-4.0	-11.2			TP				LAST STA. on ROAD E.D.M.
	1320		162° 03' 59" +100	+15.0	7.8	-		+7.8	2358.1		BS	+1318	-68		
	1320				+14.4	TH	-6.6	+7.8			BS				
120	990		163° 27'	" "	7.0	-		-7.0		2351.1		-990	+27	587,856	2,020,278
121	660		163° 46'	" "	7.0	-		-7.0		2351.1		-660	+14	588,186	2,020,265

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
1-29-82		B. Cotcamp		M. Knapp		6834		MKK Jm		5	9				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIF.		CALIF CITY NORTH/SOUTH		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
									2358.1						
122	330		163° 52'	+15.0°	6.3	-		-6.3		2351.8		-330	+7	588,516	2,020,258
123	0				5.4	-		-5.4		2352.7	X	0	0	588,846	2,020,251
124	330		001 21'	+15.0°	9.0	-		-9.0		2349.1		+317	+93	589,163	2,020,344
125	660		" "	" "	12.0	-		-12.0		2346.1		+633	+186	589,479	2,020,437
126	990		00° 00' 12"	" "	13.0	-		-13.0		2345.1		+955	+260	589,801	2,020,511
127	1315		357° 47' 04"	" "	14.3	-		-14.3			TP	+1282	+291.2	590,128	2,020,544
127	1315				7.8	BH	-6.6	-14.4		2343.7	TP				AROUND CORN.
	660		163° 17' 19" +180°	+15.0°	+2.8	-		+2.8		2346.5	BS	+660	-20.2		
	660				+6.1	TM	-3.3	+2.8			BS				
128	330		163° 17'	+15.0°	7.4	-		-7.4		2339.1		-330	+10	590,458	2,020,536
129	0			" "	5.4	-		-5.4		2341.1	X	0	0	590,788	2,020,526
130	330		343° 24'	" "	2.2	TM	+1.7	-0.5		2346.0		+330	-9	591,118	2,020,517
131	660		" "	" "	3.0	TM	+3.3	+0.3		2346.8		+660	-18	591,448	2,020,518
TP	915		341° 23' 37"	+15.0°	4.1	TM	+4.6	+0.5		2347.0	TP	+913.1	-58.2	591,700	2,020,470
TP	915				4.8	89° 40'	+5.3	+0.5			TP				
	507		228° 03' 48" -180°	+14.7°	+5.1	-		+5.1		2352.1	BS	+232	+451		
	507				+7.6	TM	-2.5	+5.1			BS				
132	330		216° 18'	+14.7°	6.2	-		-6.2		2345.9		-208	-256	591,724	2,020,665
133	0				5.4	-		-5.4		2346.7	X	0	0	591,932	2,020,921

↑  
CALIFORNIA CITY SOUTH  
CALIFORNIA CITY NORTH  
y = 591,700 x = 2020,470  
TINT. EL. 2346.0  
HORIZ. y = -1'  
CORR. x = +13'

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-29-82		B. Cotcamp		M. KNAPP		6834		MPK		5		10			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		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
									2352.1						
134	330		33° 31'	+14.7°	11.0	-	-11.0		2341.1			+220	+246	592,152	2,021,167
135	661		33° 31' 16"	"	13.4	BH	-3.3	-16.7		2335.4	TP	+440	+493	592,372	2,021,414
135	661			"	10.9	90° 30'	-5.8	-16.7			TP				
	1300		122° 42' 50" +180°	"	+9.5	BH	+6.5	+16.0	2351.4		BS	+987	-846		
	1300			"	+12.2	90° 10'	+3.8	+16.0			BS				
136	980		122° 56'	"	13.8	90° 20'	-5.7	-19.5		2331.9		-724	+660	592,635	2,021,228
137	655		122° 17'	+14.7°	14.8	90° 10'	-1.9	-16.7		2334.7		-479	+447	592,880	2,021,015
138	320		129° 01'	"	8.9	90° 10'	-0.9	-9.8		2341.6		-240	+211	593,119	2,020,779
139	0			"	5.4	-	-5.4			2346.0	X	0	0	593,359	2,020,568
140	345		38° 28'	"	4.8	-	-4.8			2346.6		+293	-182	593,652	2,020,386
141	675		309° 14'	"	6.4	-	-6.4			2345.0		+546	-397	593,905	2,020,171
TP	1036		307° 28' 51"	"	10.2	-	-9.7			2341.7	TP	+818	-635	594,177	2,019,933
TP	1036			+14.7°	12.7	89° 50'	+3.0	-9.7			TP				
	1280		133 23 20 +180°	"	+4.9	TH	-6.4	-1.5			BS	+1087	-677		
	1280			"	+9.8	89° 30'	-11.2	-1.4	2340.3		BS				
142	1315		130° 36'	"	5.7	89° 48'	+4.6	-1.1		2339.2		-1081	+749	594,183	2,020,005
TP	1101		128° 04' 16"	"	7.1	-	-7.1			2333.2	TP	-877	+666	594,387	2,019,922
143	990		127° 11'	"	7.6	-	-7.6			2332.7		-779	+611	594,485	2,019,867
144	660		" "	+14.7°	5.4	-	-5.4			2334.9		-519	+407	594,745	2,019,663

y-594,400  
TINT. X-2,019,945

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
1-30-82		B. Cotlamp		M. Knapp		6834		MPK		5		11				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
CALIF.		CALIF. 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	COORDINATES		REMARKS		
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
									2340.3							
145	330		127° 11'	+14.7°	2.9	-		-2.9		2337.4		-260	+204	595,004	2,019,460	
146	0			"	5.4	-		-5.4		2334.9	T	0	0	595,264	2,019,256	
147	330		307° 20'	"	10.4	-		-10.4		2329.9		+260	-203	595,524	2,019,053	
148	660		" "	"	9.3	-		-9.3		2331.0		+520	-406	595,784	2,018,850	AROUND CORNER
149	990		" "	+14.7°	6.9	-		-6.9		2333.4		+780	-609	596,044	2,018,647	
150	1315		305° 06' 42"	+14.3°	9.2	-		-9.2			TP	+999	-856	596,263	2,018,401	
150	1315			"	2.5	BH	-6.6	-9.1		2331.2	TP					
	660		112° 39' 46" +180	"	+2.5	TH	-3.3	-0.8	2330.4		BS	+397	-527		AROUND CORNER	
	660			"	+4.9	89° 30'	-5.8	-0.9			BS					
151	330		110° 31'	"	7.3	89° 30'	+2.9	-4.4		2326.0		-188	+271	596,472	2,018,146	
152	0			"	5.4	-		-5.4		2325.0	T	0	0	596,660	2,017,875	
153	330		282° 18'	+14.3°	7.1	89° 30'	+2.9	-4.2		2326.2		+148	-295	596,808	2,017,580	
154	660		279° 41'	"	2.4	89° 30'	+5.8	+3.4		2333.8		+268	-603	596,928	2,017,272	AROUND CORNER
155	984		277° 10'	"	0.8	89° 30'	+8.6	+7.8		2338.2	TP	+360	-916	597,021	2,016,960	
155	984			"	6.0	89° 12'	+13.7	+7.7			TP					
	989		77° 24' 32" +180	"	+7.4	-		+7.4	2345.6		BS	+29	-989			
	989			"	+12.3	TH	-4.9	+7.4			BS					
156	660		75° 21'	+14.3°	6.7	-		-6.7		2338.9		+4	+660	597,055	2,016,632	
157	330		" "	"	6.0	-		-6.0		2339.6		+2	+330	597,053	2,016,302	

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-30-82		B. Cotcamp		M. Knapp		6834		MPK		5		12			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		CAL. CITY NORTH		CALIF.		Kern								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 & TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2345.6						
158	0				5.4	-		-5.4		2340.2	π	0	0	597,051	2,015,972
159	330		255° 18'	+14.3°	4.9	-		-4.9		2340.7		-2	-330	597,049	2,015,642
160	660		" "	" "	4.1	-		-4.1		2341.5		-5	-660	597,046	2,015,312
TP	747		254° 18' 02"	+14.7°	4.0	-		-4.0		2341.6	±	-13	-747	597,038	2,015,226
TP	747				7.8	TH	+3.7	-4.1			±				± 4 way EL. 2343.0 y-597,000 x-2,015,200
R1	TAKE OFF	ELEVATION, 4 way			2343.0					2343.0	R1				4 way EL. 2343.0
	590		75° 03' 06" +186°	+14.7°	+12.8	-		+12.8		2355.8	BS	-22	-5190		E.A.M
	5190				+9.7	8° 02'	+3.0	+12.7			BS				E.A.M
161	4949		74° 53'	+14.7°	11.2	-		-11.2		2344.6		+36	+4949	597,053	2,014,985
162	4620		" "	" "	13.0	-		-13.0		2342.8		+34	+4620	597,051	2,014,656
163	4290		" "	" "	12.1	-		-12.1		2343.7		+31	+4290	597,048	2,014,326
164	3960		" "	" "	11.9	-		-11.9		2343.9		+29	+3960	597,046	2,013,996
165	3630		" "	" "	14.4	-		-14.4		2341.4		+26	+3630	597,043	2,013,666
166	3300		74° 53'	+14.7°	11.5	-		-11.5		2344.3		+24	+3300	597,041	2,013,336
167	2970		" "	" "	8.9	-		-8.9		2346.9		+22	+2970	597,039	2,013,006
168	2640		" "	" "	8.0	-		-8.0		2347.8		+19	+2640	597,036	2,012,676
169	2310		" "	" "	7.3	-		-7.3		2348.5		+17	+2310	597,034	2,012,346
170	1980		" "	" "	6.6	-		-6.6		2349.2		+14	+1980	597,031	2,012,016
171	1650		" "	+14.7°	7.1	-		-7.1		2348.7		+12	+1650	597,029	2,011,686

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
1-30-82		B. Cotcamp		M. Knapp		6834		MPK		5		13			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA.		CALIF. CITY NORTH		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 TP	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2355.8						
172	1320		74° 53'	+14.7°	8.1	-		-8.1		2347.7		+10	+1320	597,027	2,011,356
173	990		" "	"	7.5	-		-7.5		2348.3		+7	+990	597,024	2,011,026
174	660		" "	"	6.7	-		-6.7		2349.1		+5	+660	597,022	2,010,696
175	330		" "	"	5.9	-		-5.9		2349.9		+2	+330	597,019	2,010,366
176	0			"	5.4	-		-5.4		2350.4	π	0	0	597,017	2,010,036
177	148		250° 51' 42"	"	4.9	-		-4.9		2350.9	π	-11	-148	597,006	2,009,888 <sup>y=597,000</sup> <sub>4 way x=2,009,875</sub>
177	330		256° 34'	+14.7°	3.1	-		-3.1		2352.7		+7	-330	597,024	2,009,706
178	660		" "	"	4.0	TH	+3.3	-0.7		2355.1		+15	-660	597,032	2,009,376
179	990		" "	"	4.1	TH	+5.0	+0.9		2356.7		+22	-990	597,039	2,009,046
180	1320		257° 31'	"	4.8	TH	+6.6	+1.8		2357.6		+51	-1319	597,068	2,008,717
181	1650		256° 52'	"	5.1	TH	+8.3	+3.2		2359.0		+45	-1649	597,062	2,008,387
182	1980		256° 23'	+14.7°	5.0	TH	+9.9	+4.9		2360.7		+37	-1980	597,064	2,008,056
183	2310		256° 07'	"	4.6	TH	+11.6	+7.0		2362.8		+33	-2310	597,060	2,007,726
184	2640		255° 53'	"	4.7	TH	+13.2	+8.5		2364.3		+27	-2640	597,044	2,007,396 <sub>y=597,005 x=2,007,145</sub>
185	2877		255° 25' 20"	"	3.7	TH	+14.4	+10.7		2366.5	π	+6	-2877	597,023	2,007,159 <sub>4 way INT. EL 2365.0</sub>
185	2970		255° 43'	"	4.1	TH	+14.9	+10.8		2366.6		+22	-2970	597,039	2,007,006
186	3300		255° 32'	+14.7°	3.8	TH	+16.5	+12.7		2368.5		+13	-3300	597,030	2,006,736
187	3636		255° 35'	"	3.1	TH	+18.2	+15.1		2370.9		+18	-3630	597,035	2,006,406
188	3960		255° 27'	+14.7°	3.0	TH	+19.8	+16.8		2372.6		+5	-3960	597,022	2,006,076

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO		PAGE			
1-30-82		B. Cotcamp		M. Knapp		6834		MPK		5		14			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		CALIF. CITY NORTH		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
									2355.8						
189	4288		255° 22'	+14.7°	3.5	TH	+21.4	+17.9		2373.7		+5	-4288	597,022	2,005,748
190	4618		" "	"	3.5	TH	+23.1	+19.6		2375.4		+5	-4618	597,022	2,005,418
191	4948		" "	"	2.7	TH	+24.7	+22.0		2377.8		+6	-4948	597,023	2,005,088
192	5272		" "	"	5.7	89° 40'	+30.7	+25.0		2380.8		+6	-5272	597,023	2,004,764 E.D.M.
<del>193</del>	5541		255° 07' 22"	+14.7°	5.0	89° 40'	+32.2	+27.27			TP	-17	-5541	597,000	2,004,495 E.D.M. 4-way EL 2384.0
<del>194</del>	5541		" "	"	14.6	89° 34'	+41.9	+27.35		2383.1	TP				y=597,000 HORIZ y=+3', x=2,004,495 CORR x=+5
	5365		165° 11' 22" +180°	+14.9°	6.9	TH	+26.8	-19.9			BS	+5365	+8.2		E.D.M.
	5365		" "	"	+11.0	89° 40'	-31.2	-20.1	2363.0		BS				
193	5278		165° 04'	+14.9°	7.0	TH	+26.4	+19.4		2382.4		-5278	+3	597,086	2,004,504 E.D.M.
194	4950		" "	"	5.2	TH	+24.8	+19.6		2382.6		-4950	+3	597,414	2,004,504
195	4620		" "	"	6.2	TH	+23.1	+16.9		2379.9		-4620	+3	597,744	2,004,504
196	4290		" "	"	6.9	TH	+21.5	+14.6		2377.6		-4290	+3	598,074	2,004,504
197	3960		165° 04'	+14.9°	5.7	TH	+19.8	+14.1		2377.1		-3960	+2	598,404	2,004,503
198	3630		" "	"	4.8	TH	+18.2	+13.4		2376.4		-3630	+2	598,734	2,004,503
199	3300		" "	"	4.0	TH	+16.5	+12.5		2375.5		-3300	+2	599,064	2,004,503
200	2970		" "	"	4.2	TH	+14.9	+10.7		2373.7		-2970	+2	599,394	2,004,503
<del>201</del>	2752		165° 19' 07"	"	4.3	TH	+13.8	+9.5		2372.5	#	-2752	-11	599,612	2,004,490 y=599,620 4-WAY x=2,004,495 ELEV 2372.0
201	2640		165° 04'	+14.9°	5.1	TH	+13.2	+8.1		2371.1		-2640	+2	599,784	2,004,503
202	2310		" "	"	6.2	TH	+11.6	+5.4		2368.4		-2310	+1	600,054	2,004,502

SURVEY NOTES-HIGH RESOLUTION DATA

GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-1-82		B. Cotcamp		M. Knapp		6834		MPK		5		15			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		CALIF. 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
									2363.0						
203	1980		165° 04'	+149°	5.0	TH	+9.9	+4.9		2367.9		-1980	+1	600,384	2,004,502
204	1650		" "	"	4.0	TH	+8.3	+4.3		2367.3		-1650	+1	600,714	2,004,502
205	1320		" "	"	3.4	TH	+6.6	+3.2		2366.2		-1320	+1	601,044	2,004,502
206	990		" "	"	5.2	TH	+5.0	-0.2		2362.8		-990	+1	601,374	2,004,502
207	660		" "	"	5.9	TH	+3.3	-2.6		2360.4		-660	±0	601,704	2,004,500
208	330		" "	"	4.9	TH	+1.7	-3.2		2359.8		-330	±0	602,034	2,004,500
well	151		65° 36' 06"	+149°	5.4	-		-5.4		2357.6					
#	36		188° 40' 42"	"	4.7	-		-4.7		2358.3	#	-33	-14	602,331	2,004,487
209	0			"	5.4	-		-5.4		2357.6	π	0	0	602,364	2,004,501
210	330		344° 56'	"	6.4	-		-6.4		2356.6		+330	-1	602,694	2,004,500
211	660		" "	"	8.3	-		-8.3		2354.7		+660	-2	603,024	2,004,499
212	990		" "	"	9.8	-		-9.8		2353.2		+990	-3	603,354	2,004,498
213	1320		" "	"	11.9	-		-11.9		2351.1		+1320	-4	603,684	2,004,497
214	1650		" "	+149°	6.7	BH	-8.3	-15.0		2348.0		+1650	-5	604,014	2,004,496
215	1980		" "	"	7.2	BH	-9.9	-17.1		2345.9		+1980	-6	604,344	2,004,495
216	2310		" "	"	7.0	BH	-11.6	-18.6		2344.4		+2310	-7	604,674	2,004,494
217	2640		344° 56'	+149°	7.2	BH	-13.2	-20.4		2342.6		+2640	-8	605,004	2,004,493
218	2970		" "	"	6.9	BH	-14.9	-21.8		2341.2		+2970	-9	605,334	2,004,492
219	3300		" "	"	5.4	BH	-16.5	-21.9		2341.1		+3300	-10	605,664	2,004,491

Y=602,360 OFFSET 4-WAY  
X=2,004,500 EL. 2357

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-1-82		B. Gtcamp		M. Knapp		6834		MPK		S		16			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIF.		CAL. CITY NORTH		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
									2363.0						
220	3630		344° 50'	+14.9°	5.2	BH	-18.2	-23.4		2339.6		+3630	-11	605,994	2,004,490
221	3960		" "	"	4.9	BH	-19.8	-24.7		2338.3		+3960	-12	606,324	2,004,489
222	4290		" "	"	5.0	BH	-21.5	-26.5		2336.5		+4290	-12	606,654	2,004,489
223	4620		" "	"	4.0	BH	-23.1	-27.1		2335.9		+4620	-13	606,984	2,004,488
224	4950		" "	"	4.7	BH	-24.8	-29.5		2333.5		+4950	-14	607,314	2,004,487
225	5191		344° 48' 50"	+14.9°	4.0	BH	-26.0	-30.0		2333.0	≠	+5191	-26	607,555	2,004,475
225	5278		344° 56' 28"	+15.2°	4.5	BH	-26.4	-30.9		2332.1	TP	+5278	+13	607,641	2,004,512
225	5278			"	12.5	90° 12'	-18.4	-30.9			TP				
	5278		164° 40' 08" +180°	+15.2°	+7.4	TH	-26.4	-19.0	2313.1		BS	+5278	-12		E.D.M.
	5278			"	+5.6	89° 44'	-24.5	-18.9			BS				
226	4950		164° 40'	+15.2°	7.7	TH	+24.8	+17.1		2330.2		-4950	+12	607,968	2,004,510
227	4620		" "	" "	7.8	TH	+23.1	+15.3		2328.4		-4620	+11	608,298	2,004,509
228	4290		" "	" "	7.9	TH	+21.5	+13.6		2326.7		-4290	+10	608,628	2,004,508
229	3960		" "	" "	7.7	TH	+19.8	+12.1		2325.2		-3960	+9	608,958	2,004,507
230	3630		" "	" "	7.1	TH	+18.2	+11.1		2324.2		-3630	+8	609,288	2,004,506
231	3300		" "	" "	8.2	TH	+16.5	+8.3		2321.4		-3300	+8	609,618	2,004,506
232	2970		164° 40'	+15.2	7.3	TH	+14.9	+7.6		2320.7		-2970	+7	609,948	2,004,505
232	2709		164° 55' 14"	"	6.6	TH	+13.5	+6.9		2320.0	≠	-2709	-6	610,209	2,004,492
233	2640		164° 40'	"	6.7	TH	+13.2	+6.5		2319.6		-2640	+6	610,278	2,004,504

Y=607,569  
X=2,004,510

Y=610,215  
X=2,004,510  
TPO EAST.

SURVEY NOTES-HIGH RESOLUTION DATA  
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-1-82		B. Cotcamp		M. KNAPP		6834		MPK		5		17			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		CALIF. 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	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
									2313.1						
234	2310		164° 40'	+15.2°	7.0	TM	+11.6	+4.6		2317.7		-2310	+5	610,608	2,004,503
235	1980		" "	"	6.7	TH	+9.9	+3.2		2316.3		-1980	+5	610,938	2,004,503
236	1650		" "	"	6.3	TH	+8.3	+2.0		2315.1		-1650	+4	611,268	2,004,502
237	1320		" "	"	6.9	TH	+6.6	-0.3		2312.8		-1320	+3	611,598	2,004,501
238	990		164° 40'	"	6.7	TH	+5.0	-1.7		2311.4		-990	+2	611,928	2,004,500
239	660		" "	"	6.4	TH	+3.3	-3.1		2310.0		-660	+2	612,258	2,004,500
240	330		" "	"	5.0	TH	+1.7	-3.3		2309.8		-330	+1	612,588	2,004,499
241	20		205° 28' 56"	+15.2°	4.5	-		-4.5		2308.6	TI	-15	-13	612,913	2,004,485
241	0		" "	"	5.4	-		-5.4		2307.7	T	0	0	612,918	2,004,498
242	330		344° 36'	"	7.1	-		-7.1		2306.0		+330	-1	613,248	2,004,497
243	660		" "	+15.2°	10.8	-		-10.8		2302.3		+660	-2	613,578	2,004,496
244	990		" "	"	13.3	-		-13.3		2299.8		+990	-3	613,908	2,004,495
245	1320		" "	"	10.6	BH	-6.6	-17.2		2295.9		+1320	-5	614,238	2,004,493
246	1650		" "	"	10.3	BH	-8.3	-18.6		2294.5		+1650	-6	614,568	2,004,492
247	1980		344° 36'	+15.2°	11.0	BH	-9.9	-20.9		2292.2		+1980	-7	614,898	2,004,491
248	2310		" "	"	12.2	BH	-11.6	-23.8		2289.3		+2310	-8	615,228	2,004,490
249	2640		" "	"	11.9	BH	-13.2	-25.1		2288.0		+2640	-9	615,558	2,004,489
250	2970		" "	"	12.8	BH	-14.9	-27.7		2285.4		+2970	-10	615,888	2,004,488
251	3300		" "	+15.2°	13.4	BH	-16.5	-29.9		2283.2		+3300	-12	616,218	2,004,486

Y=612,900  
X=2,004,520 T-ROAD EAST

SURVEY NOTES-HIGH RESOLUTION DATA  
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-1-82		B. Cotcamp		M. KNAPP		6834		MPK		5		18			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		CALIF. 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
									2313.1						
252	3630		344° 36'	+15.2°	12.7	90° 20'	-21.1	-33.8		2279.3		+3630	-13	616,548	2,004,485
253	3960		" "	"	13.9	90° 20'	-23.0	-36.9		2276.2		+3960	-14	616,878	2,004,484
254	4290		" "	"	7.2	90° 26'	-32.4	-39.6		2273.5		+4290	-15	617,208	2,004,483
255	4620		" "	"	6.1	90° 26'	-34.9	-41.0		2272.1		+4620	-16	617,538	2,004,482
256	4950		" "	"	6.1	90° 26'	-37.4	-43.5		2269.6		+4950	-17	617,868	2,004,481
TP	5291		344° 28' 22"	+15.2°	6.6	90° 26'	-40.0	-46.6		2266.5	TP	+5291	-30	618,209	2,004,468 1/2 618,210 X=2,004,510 4-WAY
BM	5367		343° 41' 23"	"	13.2	90° 22'	-34.3	-47.5		2265.6	BM				BM EL. 2264.0
257	5279		344° 36' 02"	+15.2°	13.0	90° 22'	-33.8	-46.8	}	2266.3	TP	+5279	+9	618,197	2,004,505 B.M.
257	5279		" "	"	6.9	90° 26'	-39.9	-46.8				TP			
	3959		164° 33' 30" +120"	+15.2°	+15.0	89° 30' 18"	-34.2	-19.2	}	2247.1	BS	+3959	+4		E.P.M.
	3959		" "	"	+10.8	89° 34'	-29.9	-19.1				BS			
258	3630		164° 34'	+15.2°	11.0	89° 34'	+27.4	+16.4		2263.5		-3630	+15	618,526	2,004,522
259	3300		" "	"	8.7	89° 34'	+24.9	+16.2		2263.3		-3300	+13	618,856	2,004,520
266	2970		" "	"	10.0	89° 30'	+25.9	+15.9		2263.0		-2970	+12	619,186	2,004,519
261	2640		" "	"	10.0	89° 30'	+23.0	+13.0		2260.1		-2640	+11	619,516	2,004,518
262	2310		" "	+15.2°	7.5	89° 30'	+20.2	+12.7		2259.8		-2310	+9	619,846	2,004,516
263	1980		164° 34'	"	6.3	89° 30'	+17.3	+11.0		2258.1		-1980	+8	620,176	2,004,515
264	1650		" "	"	6.0	89° 30'	+14.4	+8.4		2255.5		-1650	+7	620,506	2,004,514
265	1320		" "	"	6.8	89° 30'	+11.5	+4.7		2251.8		-1320	+5	620,836	2,004,512

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE							
2-1-82		B. Cotcamp		M. Knapp		6834		NPK		5		19							
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER					
CALIFORNIA		CAL. CITY NORTH		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 TP	NORTH + SOUTH -		EAST + WEST -		COORDINATES		REMARKS	
												LAT.	DEP.	Y	X				
									2247.1										
266	1272		165° 07' 50"	+15.2°	6.6	89° 30'	+11.1	+4.5		2251.6	IF	-1272	-14	620,884	2,004,493			Y=620,895 X=2,004,500 180 West.	
267	990		164° 34'	" "	6.2	89° 30'	+8.6	+2.4		2249.5		-990	+4	621,166	2,004,511				
268	660		" "	" "	6.2	89° 30'	+5.8	-0.4		2246.7		-660	+3	621,496	2,004,510				
269	330		" "	" "	6.0	89° 30'	+2.9	-3.1		2244.0		-330	+1	621,826	2,004,508				
270	0				5.4	-		-5.4		2241.7	TP	0	0	622,156	2,004,507				
271	330		344° 29'	+15.2°	5.7	90° 10'	-1.0	-6.7		2240.4		+330	-2	622,486	2,004,505				
272	660		" "	" "	6.2	90° 10'	-1.9	-8.1		2239.0		+660	-4	622,816	2,004,503				
273	990		" "	+15.2°	7.0	90° 10'	-2.9	-9.9		2237.2		+990	-5	623,146	2,004,502				
274	1320		" "	" "	7.0	90° 10'	-3.8	-10.8		2236.3		+1320	-7	623,476	2,004,500				
275	1327		344° 03' 33"	" "	7.0	90° 10'	-3.9	-10.9		2236.2	IF	+1327	-10		2,004,497			Y=623,500 X=2,004,500 4-WAY	
276	1380		341° 39' 56"	" "	6.9	90° 10'	-4.0	-10.9		2236.2	BS							Elev. 2234.0	
277	1650		344° 29'	" "	6.8	90° 10'	-4.8	-11.6		2235.5		+1650	-9	623,806	2,004,498				
278	1980		" "	+15.2°	6.3	90° 10'	-5.8	-12.1		2235.0		+1980	-11	624,136	2,004,496				
279	2310		" "	" "	8.0	90° 10'	-6.7	-14.7		2232.4		+2310	-13	624,466	2,004,494				
280	2640		" "	" "	9.9	90° 10'	-7.7	-17.6		2229.5		+2640	-15	624,796	2,004,492				
281	2970		" "	" "	10.9	90° 10'	-8.6	-19.5		2227.6		+2970	-16	625,126	2,004,491				
282	3300		" "	" "	12.7	90° 10'	-9.6	-22.3		2224.8		+3300	-18	625,456	2,004,489				
283	3630		" "	+15.2°	12.8	90° 10'	-10.6	-23.4		2223.7		+3630	-20	625,786	2,004,487				
284	3959		344° 29' 12"	+15.4°	14.8	90° 10'	-11.5	-26.3			TP	+3959	-8.2	626,115	2,004,487			E.D.M.	
285	3959				10.3	90° 14'	-16.1	-26.4		2220.7	TP								

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-1-82		B. Cotcamp		M. Knapp		6834		MKP Jvr		5		20			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		CALIF. 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	COORDINATES		REMARKS	
												NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y
										2220.7					
	5278		164° 38' 32" +180"	+15.4°	+15.0	89° 23' 12"	-56.5	-41.5			BS	+5278	+4		E.O.M
	5278				+5.0	89° 30'	-46.1	-41.6	2179.1		BS				
282	4950		164° 39'	+15.4°	10.6	89° 26'	+49.0	+38.4		2217.5		-4950	-4	626,443 2,004,496	
<del>283</del> If	4811		164° 45' 23"	" "	15.0	89° 22' 48"	+52.1	+37.1		2216.2	If	-4811	-13	626,582 2,004,487	V=626,600 X=2,004,500 T-RD. WEST EL. 2216
283	4620		164° 39'	" "	12.9	89° 24'	+48.4	+35.5		2214.6		-4620	-4	626,773 2,004,496	
284	4290		" "	" "	8.0	89° 28'	+39.9	+31.9		2211.0		-4290	-4	627,103 2,004,496	
285	3960		" "	" "	8.6	89° 28'	+36.9	+28.3		2207.4		-3960	-3	627,433 2,004,497	
286	3630		" "	" "	7.0	89° 28'	+33.8	+26.8		2205.9		-3630	-3	627,763 2,004,497	
287	3300		" "	+15.4°	6.5	89° 28'	+30.7	+24.2		2203.3		-3300	-3	628,093 2,004,497	
288	2970		" "	" "	6.3	89° 28'	+27.7	+21.4		2200.5		-2970	-3	628,423 2,004,497	
289	2640		" "	" "	6.1	89° 28'	+24.6	+18.5		2197.6		-2640	-2	628,753 2,004,498	
If	2590		164° 53' 20"	" "	4.3	89° 30'	+22.6	+18.3		2197.4	If	-2590	-13	628,803 2,004,487	V=628,815 X=2,004,495 4-WAY ELEV. 2195.0 E.O.M
Bm	2556		165° 58' 46"	" "	11.5	89° 26'	+29.7	+18.2		2197.3	Bm				
290	2310		164° 39'	+15.4°	12.4	89° 20'	+26.9	+14.5		2193.6		-2310	-2	629,083 2,004,498	
291	1980		" "	" "	9.9	89° 20'	+23.0	+13.1		2192.2		-1980	-2	629,413 2,004,498	
292	1650		" "	" "	9.3	89° 20'	+19.2	+9.9		2189.0		-1650	-1	629,743 2,004,499	
293	1320		" "	" "	9.4	89° 20'	+15.4	+6.0		2185.1		-1320	-1	630,073 2,004,499	
294	990		" "	" "	7.8	89° 20'	+11.5	+3.7		2182.8		-990	-1	630,403 2,004,499	
295	660		" "	+15.4°	5.0	89° 20'	+7.7	+2.7		2181.8		-660	-1	630,733 2,004,499	

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-1-82		B. Cotcamp		M. Knapp		6834		MPK Jm		5		21			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		CALIF. 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
									2179.1						
296	330		164° 39'	+15.4°	5.5	89° 20'	+3.8	-1.7		2177.4		-330	± 0	631,063	2,004,500
297	0			"	5.4	-		-5.4		2173.7	TP	0	0	631,393	2,004,500
1F	27		313° 26' 48"	+15.4°	4.9	89° 20'	+0.3	-4.6		2174.5	1F	+23	-14	631,416	2,004,486
298	330		344° 33'	"	7.0	-		-7.0		2172.1		+330	± 0	631,723	2,004,500
299	660		" "	"	9.3	-		-9.3		2169.8		+660	-1	632,053	2,004,499
300	990		" "	"	11.7	-		-11.7		2167.4		+990	-1	632,383	2,004,499
301	1320		" "	+15.4°	8.5	84	-6.6	-15.1		2164.0		+1320	-1	632,713	2,004,499
302	1650		" "	"	11.0	84	-8.3	-19.3		2159.8		+1650	-1	633,043	2,004,499
303	1980		344° 33'	"	11.3	84	-9.9	-21.2		2157.9		+1980	-2	633,373	2,004,498
304	2310		" "	"	12.9	84	-11.6	-24.5		2154.6		+2310	-2	633,703	2,004,498
305	2640		" "	+15.4°	6.0	90° 30'	-23.0	-29.0		2150.1		+2640	-2	634,033	2,004,498
7I	2672		344° 17' 18"	"	5.8	90° 30'	-23.3	-29.1		2150.0	7I	+2672	-15	634,065	2,004,485
306	2970		344° 33'	+15.4°	7.0	90° 30'	-25.9	-32.9		2146.2		+2970	-3	634,363	2,004,497
307	3300		" "	"	7.8	90° 30'	-28.8	-36.6		2142.5		+3300	-3	634,693	2,004,497
308	3630		" "	"	9.1	90° 30'	-31.7	-40.8		2138.3		+3630	-3	635,023	2,004,497
309	3960		" "	"	9.1	90° 30'	-34.6	-43.7		2135.4		+3960	-3	635,353	2,004,497
310	4290		" "	"	8.2	90° 30'	-37.5	-45.7		2133.4		+4290	-4	635,683	2,004,496
311	4620		" "	+15.4°	10.4	90° 30'	-40.3	-50.7		2128.4		+4620	-4	636,013	2,004,496
312	4948		344° 33' 65"	+15.1°	12.3	90° 30'	-43.2	-55.5			TP	+4948	-30	636,341	2,004,469
312	4948				14.0	90° 29'	-41.7	-55.7		2123.4	TP				

Y=631,430 T=RD, EAST  
X=2,004,500 EL. 2176.0

Y=634,075 T=RD, WEST  
X=2,004,500 EL. 2151.0

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE				
2-1-82		B. Cotcamp		M. Knapp		6834		MPK Jsr		5		22				
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER		
CALIF.		CALIF. CITY NORTH/CANTIC		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	X
										2123.4						
	3298		164° 55' 35" +186"	+15.1°	+15.0	89° 16' 42"	-41.5	-26.5 ?			BS	+3298	+2		E.D.M.	
	3298				+5.0	89° 27' 33"	-31.1	-26.6	2096.8		BS					
313	2970		164° 56'	+15.1°	11.1	89° 20'	+34.5	+23.4		2120.2		-2970	-2	636,669	2,004,468	CAL CITY NORTH
1=	2942		165° 07' 08"	" "	5.0	89° 27'	+28.2	+23.2		2120.0	IF	-2942	-11	636,697	2,004,459	Y=636,700 T-RD EAST X=2,004,495 EL. 2119.0 CANTIC
314	2640		164° 56'	" "	11.0	89° 20'	+30.7	+19.7		2116.5		-2640	-2	636,999	2,004,468	
315	2310		" "	" "	12.0	89° 20'	+26.9	+14.9		2111.7		-2310	-1	637,329	2,004,469	
316	1980		" "	" "	10.2	89° 20'	+23.0	+12.8		2109.6		-1980	-1	637,659	2,004,469	
317	1650		" "	" "	8.5	89° 20'	+19.2	+10.7		2107.5		-1650	-1	637,989	2,004,469	
318	1320		" "	+15.1°	6.0	89° 20'	+15.4	+9.4		2106.2		-1320	-1	638,319	2,004,469	
319	990		" "	" "	5.1	89° 20'	+11.5	+6.4		2103.2		-990	-1	638,649	2,004,469	
320	660		" "	" "	5.8	89° 20'	+7.7	+1.9		2098.7		-660	±0	638,979	2,004,470	
321	330		" "	" "	5.0	89° 20'	+3.8	-1.2		2095.6		-330	±0	639,309	2,004,470	
4=	280		168° 26' 30"	" "	5.0	89° 12' 28"	+3.9	-1.1		2095.7	4=	-279	-17	639,360	2,004,453	Y=639,390 X=2,004,560 EL. 2093.0 OFFSET 4-WAY
322	0		" "	" "	5.4	-	-	-5.4		2091.4	T	0	0	639,639	2,004,470	
323	330		345° 39'	+15.1°	7.2	90° 30'	-2.9	-10.1		2086.7		+330	+4	639,969	2,004,474	
324	660		" "	" "	7.9	90° 30'	-5.8	-13.7		2083.1		+660	+9	640,299	2,004,479	
325	990		" "	" "	7.8	90° 30'	-8.6	-16.4		2080.4		+990	+13	640,629	2,004,483	
326	1320		" "	" "	8.8	90° 30'	-11.5	-20.3		2076.5		+1320	+17	640,959	2,004,487	
327	1650		" "	" "	9.4	90° 30'	-14.4	-23.8		2073.0		+1650	+22	641,289	2,004,492	

SURVEY NOTES-HIGH RESOLUTION DATA  
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
2-1-82		B. Cotcamp		M. Knapp		6834		MKK [Signature]		5	23				
AREA		TOPO MAP		STATE		COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIF.		CANTIL - 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
									2096.8						
328	1980		345° 39'	+15.1°	11.0	90° 30'	-17.3	-28.3		2068.5		+1980	+26	641,619	2,004,496
329	2310		" "	"	12.9	90° 30'	-20.2	-33.1		2063.7		+2310	+30	641,949	2,004,500
1F	2414		345° 21' 22"	"	5.0	90° 40' 30"	-13.7	-18.7		2078.1	1F	+2414	+19	642,053	2,004,489
330	2640		345° 39'	"	5.0	90° 40'	-30.7	-35.7		2061.1		+2640	+35	642,279	2,004,505
331	2970		" "	"	6.0	90° 40'	-34.5	-40.5		2056.3		+2970	+39	642,609	2,004,509
332	3299		345° 39' 12"	+15.1°	5.9	90° 40'	-38.4	-44.3?		2052.5	TP	+3298	+43.	642,937	2,004,512 E.O.M.
332	3299			"	13.6	90° 32'	-30.7	-44.3			TP				
	2639		165° 46' 50" +180°	"	+3.8	89° 20'	-30.7	-26.9?			BS	+2639	+41.		
	2639			"	+11.4	89° 10'	-38.4	-27.0	2025.5		BS				
333	2310		165° 37'	+15.1°	4.8	89° 20'	+26.9	+22.1		2047.6		-2310	-29	643,266	2,004,523
334	1980		" "	"	9.0	89° 20'	+23.0	+14.0		2039.5		-1980	-25	643,596	2,004,527
335	1650		" "	"	10.2	89° 20'	+19.2	+9.0		2034.5		-1650	-21	643,926	2,004,531
336	1320		" "	"	11.1	89° 20'	+15.4	+4.3		2029.8		-1320	-17	644,256	2,004,535
337	990		" "	"	13.4	89° 20'	+11.5	-1.9		2023.6		-990	-12	644,586	2,004,540
338	660		" "	"	7.8	-	-	-7.8		2017.7		-660	-8	644,916	2,004,544
339	330		" "	+15.1°	4.1	-	-	-4.1		2021.4		-330	-4	645,246	2,004,548
340	0		" "	"	5.4	-	-	-5.4		2020.1	1	0	0	645,576	2,004,552
341	330		344° 46'	"	12.7	-	-	-12.7		2012.8		+330	-1	645,906	2,004,551
342	660		" "	"	11.2	84	-3.3	-14.5		2011.0		+660	-2	646,236	2,004,550

Y=642,095 T=RD. EAST  
X=2,004,520

SURVEY NOTES-HIGH RESOLUTION DATA  
GEO-445

Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
2-2-82		B. COSTA		M. KNAPP		6834		MPK [Signature]		5	24				
AREA		TOPO MAP		STATE		COUNTY		RANGE		PPM		PARTY MANAGER			
CALIFORNIA		CASTIL-7.5'		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
									2025.5						
343	990		344° 46'	+15.1°	9.3	04	-5.0	-14.3		2011.2		+990	-2	646,566	2,004,550
344	1320		" "	"	13.1	-		-13.1		2012.4		+1320	-3	646,896	2,004,549
345	1650		" "	"	12.1	-		-12.1		2013.4		+1650	-4	647,226	2,004,548
#	1947		344° 24' 17"	+15.1°	10.5	-		-10.5		2015.0	TP	+1947	-17	647,523	2,004,535
346	1980		344° 46'	+15.1°	10.5	-		-10.5		2015.0		+1980	-5	647,556	2,004,547
347	2309		344° 46'	+15.1°	9.4	-		-9.4		2016.1		+2309	-5	647,885	2,004,547
Bm	2570		343° 39' 36"	+15.1°	7.3	-		-7.3		2018.2	TP	+2569	-56	648,145	2,004,495
Bm	2570		"	"	4.3	9° 04'	-3.0	-7.3			TP				
										TAKEOFF BMEL 2017.0					
	2379		165° 28' 50" +180°	"	+9.8	-		+9.8		2026.8	BS	+2379	+24		B.M.
	2379		"	"	+5.6	9° 06'	+4.2	+9.8			BS	-4			
348	2309		164° 18'	"	10.4	-		-10.4		2016.4		-2309	+24	648,211	2,004,543
349	1980		" "	+15.1°	9.3	-		-9.3		2017.5		-1980	+21	648,540	2,004,540
350	1650		" "	"	9.0	-		-9.0		2017.8		-1650	+17	648,870	2,004,536
351	1320		" "	"	8.9	-		-8.9		2017.9		-1320	+14	649,200	2,004,533
352	990		164° 18'	"	8.2	-		-8.2		2018.6		-990	+10	649,530	2,004,529
353	660		" "	"	7.6	-		-7.6		2019.2		-660	+7	649,860	2,004,526
354	330		" "	"	6.1	-		-6.1		2020.7		-330	+3	650,190	2,004,522
#	285		166° 49' 26"	+15.1°	5.8	-		-5.8		2021.0	#	-285	-10	650,235	2,004,509
355	0				5.4	-		-5.4		2021.4	#	0	0	650,520	2,004,519

Y=647,560 T-RO. EAST  
X=2,004,535 ELEV. 2013

BMEL: 2017.0  
Y=648,145 Horiz  
X=2,004,495 CORR. X=18

Y=650,295  
X=2,004,520  
T-RO. EAST ELEV 2021.0

SURVEY NOTES-HIGH RESOLUTION DATA  
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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.		PAGE			
2-2-82		B. COTCAMP		M. KNAPP		6834		MPK		5		25			
AREA		TOPO MAP		STATE		COUNTY		TWP		RANGE		PPM		PARTY MANAGER	
CALIFORNIA		CANTIL-7.5'		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	COORDINATES		REMARKS		
											NORTH + SOUTH - LAT.	EAST + WEST - DEP.		Y	X
								2026.8							
356	330		344° 17'	+15.1°	4.0	-	-4.0		2022.8		+330	-4	650,850	2,004,515	
357	660		" "	"	2.5	-	-2.5		2024.3		+660	-7	651,180	2,004,512	
358	990		" "	"	6.0	TH	+5.0	-1.0	2025.8		+990	-11	651,510	2,004,508	
359	1320		" "	"	5.3	TH	+6.6	+1.3	2028.1		+1320	-14	651,840	2,004,565	
360	1650		" "	"	5.7	TH	+8.3	+2.6	2029.4		+1650	-18	652,170	2,004,501	
361	1980		" "	"	6.0	TH	+9.9	+3.9	2030.7		+1980	-21	652,500	2,004,498	
	2355		344° 01' 54"	+15.1°	6.3	TH	+11.8	+5.5	2032.3						TRID EAST EL. 2032.0
362	2310		344° 17' 04"	+15.3	6.5	TH	+11.6	+5.1	2031.9	TP	+2310	-17	652,826	2,004,502	
362	2310		" "	"	8.3	89° 40'	+13.4	+5.1		TP					
	3299		164° 34' 03" + 180°	"	+12.3	BH	+16.5	+28.8	2060.7	BS	+3299	-8			
	3299		" "	"	+9.6	90° 20'	+19.2	+28.8		BS					
363	2970		164° 34'	"	9.8	90° 20'	-17.3	-27.1	2033.6		-2970	+17	653,151	2,004,511	
364	2640		" "	"	9.8	90° 20'	-15.4	-25.2	2035.5		-2640	+15	653,481	2,004,509	
365	2310		" "	+15.3°	10.0	90° 20'	-13.4	-23.4	2037.3		-2310	+13	653,811	2,004,507	
366	1980		" "	"	11.0	90° 20'	-11.5	-22.5	2038.2		-1980	+12	654,141	2,004,506	Y=654,410
R.R.	1716		164° 49' 30"	"	11.2	90° 20'	-10.0	-21.2	2039.5	R.R.	-1716	-4	654,405	2,004,490	R.R. ELEV 2039.0 X=2,004,560
367	1650		164° 34'	"	13.0	90° 20'	-9.6	-22.6	2038.1		-1650	+10	654,471	2,004,504	
368	1320		" "	+15.3°	10.2	90° 30'	-11.5	-21.7	2039.0		-1320	+8	654,801	2,004,502	
369	990		" "	"	11.3	90° 30'	-8.6	-19.9	2040.8		-990	+6	655,131	2,004,500	

SURVEY NOTES-HIGH RESOLUTION DATA

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Geosource Inc.

DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE				
2-2-82		B. COTCAMP		M. KNAPP		6834		MPK		5	26				
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER					
CALIFORNIA		CASTIL-7.5		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
									2060.7						
370	660		164° 34'	+15.3°	11.7	90° 30'	-5.8	-17.5		2043.2		-660	+4	655,461	2,004,498
IF	630		165° 26' 12"	"	11.4	90° 30'	-5.5	-16.9		2043.8		-630	-8	655,491	2,004,486
371	330		164° 34'	"	8.1	90° 40'	-3.8	-11.9		2048.8		-330	+2	655,791	2,004,496
372	0			"	5.4	-		-5.4		2055.5	T	0	0	656,121	2,004,494
373	330		344° 23'	"	4.1	89° -	+5.8	+1.7		2062.4		+330	-3	656,451	2,004,491
374	660		" "	"	2.0	89° -	+11.5	+9.5		2070.2		+660	-6	656,781	2,004,488
375	990		" "	+15.3°	9.3	88° 30'	+25.9	+16.6		2077.3		+990	-9	657,111	2,004,485
376	1320		" "	"	8.2	88° 56'	+24.6	+16.4		2077.1		+1320	-12	657,441	2,004,482
377	1650		344° 23'	"	10.9	88° 56'	+30.7	+19.8		2080.5		+1650	-15	657,771	2,004,479
378	1980		" "	"	8.9	88° 56'	+36.8	+27.9		2088.6		+1980	-18	658,101	2,004,476
379	2310		" "	"	13.3	88° 58'	+41.6	+28.3		2089.0		+2310	-21	658,431	2,004,473
380	2640		" "	"	19.9	88° 58'	+47.6	+27.7		2088.4		+2640	-24	658,761	2,004,470
381	2970		" "	+15.3°	18.9	88° 58'	+53.5	+34.6		2095.3		+2970	-27	659,091	2,004,467
382	3299		344° 23' 28"	"	13.6	88° 58'	+59.5	+46.5		2107.2	TP	+3298.4	-18	659,415	2,004,476
382	3299			"	15.0	88° 56' 44"	+61.7	+46.7			TP				
	261		140° 45' 32" +180°	"	+6.2	93° -	+13.6	+19.8	2127.0		BS	+238.5	-106.1		
	261			"	+10.7	92° -	+9.1	+19.8			BS				
IK	121		97° 49' 46"	+15.3°	6.3	92° -	-4.2	-10.5		2116.5		-48	+111	659,600	2,004,480
T	0										T	0	0	659,648	2,004,319

Y=655,500 T-RO WEST  
X=2,004,480

Y=659,600  
Y-INT. X=2,004,480  
CORR. Y=21

SURVEY NOTES-HIGH RESOLUTION DATA  
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DATE		INSTRUMENT MAN		ROD MAN		PARTY NUMBER		NOTES CHECKED BY		LINE NO.	PAGE			
2-2-82		B. COCAMP		M. KNAPP		6834		MPK		5	27			
AREA		TOPO MAP		STATE	COUNTY		TWP	RANGE	PPM	PARTY MANAGER				
CALIFORNIA		CANTIL-7.5'		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.	
Bm	188		232° 21' 24"	+153°	5.2	87° 40'	+7.6	+2.4		2129.4				
Bm	188				5.0	87° 44'	+7.4	+2.4						