

KHANNA & GULL, Inc. – CONSULTING ENGINEERS
Radio – Television

DAYTIME CONTOUR INFORMATION
KGDP, OILDALE, CALIFORNIA
660 KHz – 2.5 KW N/2.5 kW D – DA-2

*Exhibit 15 - Form 301, Section III-A AM Engineering
Technical Specifications*

INDEX OF STATIONS
SHOWN IN THE ALLOCATION SITUATION
FOR THE PROPOSED 2.5 KW DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2004

<u>Call</u>	<u>Frequency</u>	<u>Location</u>
	KHz	
KGDP	660	Oildale, CA
KSTE	650	Rancho Cordova, CA
KIRN (lic)	670	Simi Valley, CA
KIRN (cp)	670	Simi Valley, CA
KFI	640	Los Angeles, CA
KIDD	630	Monterey, CA

Conductivity Basis for Contour

KGDP	FCC Figure M-3, field strength measurement data; KGDP FCC 301 application dated July 1994. KAFY antenna proof of performance data and field strength data shown in Appendix A (attached).
KSTE	FCC Figure M-3, measured data from antenna proof of performance (BL-910318AC) for area of interest.
KIRN (Lic)	FCC Figure M-3, measurement data and antenna proof of performance.
KIRN (CP)	FCC Figure M-3. and Special Field Test Measurements (Appendix A, attached).
KFI	FCC Figure M-3.
KIDD	FCC Figure M-3.

Engineering Exhibit of KGDP, Oildale, California

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE PROPOSED DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2003
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Call: KGDP (Proposed)
 OILDALE, CA
 Frequency: 660 kHz

Latitude: 35-27-11 N
 Longitude: 118-56-35 W

Conductivity Database Used: US M3

Ground Conductivity Data:										
Region conductivity in mS/m followed by distance in km										
Azimuth	to the end of region. E - map data; M - measurement data.									
0.0	2.0M	2.6	10.0M	109.0	4.0M	146.1	2.0E	249.4	4.0E	395.3
	8.0E	407.1	4.0E	585.5	8.0E	710.0	4.0E	1000.0		
4.0	5.0M	49.3	3.0M	92.0	2.0M	149.9	2.0E	226.2	4.0E	602.7
	8.0E	708.3	4.0E	1000.0						
4.1	5.0M	49.3	3.0M	92.0	2.0M	149.9	2.0E	225.7	4.0E	602.8
	8.0E	708.3	4.0E	1000.0						
5.0	5.0M	49.3	3.0M	92.0	2.0M	149.9	2.0E	221.8	4.0E	603.8
	8.0E	707.8	4.0E	1000.0						
10.0	5.0M	49.3	3.0M	92.0	2.0M	149.9	2.0E	203.0	4.0E	618.3
	8.0E	707.2	4.0E	917.5	8.0E	975.4	4.0E	1000.0		
15.0	5.0M	49.3	3.0M	92.0	2.0M	149.9	2.0E	188.5	4.0E	932.8
	8.0E	997.8	4.0E	1000.0						
20.0	5.0M	49.3	3.0M	92.0	2.0M	149.9	2.0E	176.9	4.0E	903.9
20.1	8.0E	48.4	4.0E	64.1	2.0E	176.6	4.0E	903.4	8.0E	1000.0
25.0	8.0E	42.8	4.0E	67.9	2.0E	164.4	4.0E	782.0	8.0E	1000.0
30.0	8.0E	38.5	4.0E	73.0	2.0E	154.6	4.0E	740.9	8.0E	1000.0
35.0	8.0E	35.3	4.0E	79.7	2.0E	143.0	4.0E	710.9	8.0E	848.2
40.0	8.0E	32.7	4.0E	88.5	2.0E	133.2	4.0E	699.7	8.0E	767.4
45.0	8.0E	30.8	4.0E	100.3	2.0E	122.6	4.0E	566.4	15.0E	853.0
	4.0E	909.1	2.0E	920.2	8.0E	966.0	15.0E	1000.0		
50.0	8.0E	29.3	4.0E	528.4	15.0E	827.1	4.0E	852.3	15.0E	892.6
55.0	8.0E	28.1	4.0E	250.6	8.0E	252.7	4.0E	488.1	15.0E	685.8
	8.0E	829.8	15.0E	867.1	4.0E	931.4	15.0E	1000.0		
60.0	8.0E	27.2	4.0E	246.8	8.0E	368.4	4.0E	387.9	15.0E	647.4
	8.0E	759.0	15.0E	872.8	4.0E	935.7	8.0E	1000.0		
65.0	8.0E	26.6	4.0E	243.4	8.0E	348.9	15.0E	548.8	30.0E	665.4
	8.0E	800.1	15.0E	924.7	4.0E	940.4	15.0E	1000.0		
69.4	8.0E	26.2	4.0E	240.0	8.0E	348.6	15.0E	528.9	8.0E	561.1
69.5	30.0E	693.3	8.0E	732.6	15.0E	852.5	4.0E	1000.0		
	2.0M	143.8	4.0E	239.9	8.0E	348.6	15.0E	528.3	8.0E	561.5
70.0	30.0E	694.0	8.0E	727.6	15.0E	852.5	4.0E	1000.0		
	2.0M	143.8	4.0E	239.3	8.0E	348.7	15.0E	525.3	8.0E	563.9
75.0	30.0E	697.7	8.0E	713.9	15.0E	854.4	4.0E	1000.0		
	2.0M	143.8	4.0E	232.0	8.0E	348.8	15.0E	496.6	8.0E	644.5
	15.0E	721.6	8.0E	820.0	15.0E	930.0	4.0E	1000.0		

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE PROPOSED DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2003

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Ground Conductivity Data:

Region conductivity in mS/m followed by distance in km
 Azimuth to the end of region. E - map data; M - measurement data.

79.4	2.0M	143.8	4.0E	176.5	8.0E	348.2	15.0E	478.5	8.0E	637.8
	15.0E	733.7	8.0E	889.7	15.0E	1000.0				
79.5	2.0M	143.8	4.0E	175.0	8.0E	348.2	15.0E	478.3	8.0E	638.3
	15.0E	734.1	8.0E	891.0	15.0E	1000.0				
80.0	2.0M	143.8	4.0E	167.6	8.0E	348.1	15.0E	477.2	8.0E	640.6
	15.0E	736.0	8.0E	897.6	15.0E	1000.0				
85.0	6.0M	4.6	3.0M	25.4	1.0M	89.4	1.5M	123.3	4.0E	133.8
	8.0E	349.7	15.0E	472.9	8.0E	670.2	15.0E	762.0	8.0E	971.6
89.5	6.0M	4.6	3.0M	25.4	1.0M	89.4	1.5M	123.3	8.0E	357.2
	15.0E	478.1	8.0E	699.2	15.0E	864.4	8.0E	1000.0		
89.6	6.0M	4.6	3.0M	25.4	1.0M	89.4	1.5M	123.3	8.0E	357.5
	15.0E	478.2	8.0E	699.9	15.0E	865.1	8.0E	1000.0		
90.0	6.0M	4.6	3.0M	25.4	1.0M	89.4	1.5M	123.3	8.0E	358.5
	15.0E	478.8	8.0E	702.8	15.0E	868.0	8.0E	1000.0		
91.9	6.0M	4.6	3.0M	25.4	1.0M	89.4	1.5M	123.3	8.0E	363.9
	15.0E	482.8	8.0E	719.3	15.0E	885.1	8.0E	1000.0		
92.0	6.0M	4.6	3.0M	25.4	1.0M	89.4	1.5M	123.3	8.0E	364.2
	15.0E	483.2	8.0E	720.7	15.0E	886.1	8.0E	1000.0		
95.0	6.0M	4.6	3.0M	25.4	1.0M	89.4	1.5M	123.3	8.0E	372.7
	15.0E	494.3	8.0E	783.5	15.0E	903.9	4.0E	930.3	8.0E	1000.0
99.5	3.0M	35.0	1.5M	193.6	8.0E	387.2	15.0E	515.3	8.0E	843.7
	4.0E	981.6	8.0E	1000.0						
99.6	3.0M	35.0	1.5M	193.6	8.0E	387.5	15.0E	516.1	8.0E	845.0
	4.0E	981.8	8.0E	1000.0						
100.0	3.0M	35.0	1.5M	193.6	8.0E	389.0	15.0E	519.5	8.0E	850.5
	4.0E	982.7	8.0E	1013.7						
103.9	3.0M	35.0	1.5M	193.6	8.0E	401.7	15.0E	583.6	8.0E	937.3
104.0	3.0M	35.0	1.5M	193.6	8.0E	402.1	15.0E	585.6	8.0E	939.8
105.0	3.0M	35.0	1.5M	193.6	8.0E	405.8	15.0E	648.7	8.0E	1000.0
110.0	15.0M	10.0	5.0M	22.0	1.5M	90.1	8.0E	423.5	15.0E	856.2
112.0	15.0M	10.0	5.0M	22.0	1.5M	90.1	8.0E	403.8	15.0E	886.5
112.1	15.0M	10.0	5.0M	22.0	1.5M	90.1	8.0E	402.8	15.0E	887.1
115.0	15.0M	10.0	5.0M	22.0	1.5M	90.1	8.0E	376.0	15.0E	861.7
120.0	15.0M	10.0	5.0M	22.0	1.5M	90.1	8.0E	345.2	15.0E	560.4
	8.0E	643.7	15.0E	790.8	8.0E	855.6	4.0E	1000.0		
123.9	15.0M	10.0	5.0M	22.0	1.5M	90.1	8.0E	214.2	4.0E	264.3
	2.0E	331.0	15.0E	524.4	8.0E	667.4	4.0E	1000.0		
124.0	15.0M	10.0	5.0M	22.0	1.5M	90.1	8.0E	213.4	4.0E	264.4
	2.0E	330.7	15.0E	523.2	8.0E	663.5	4.0E	1000.0		
124.1	20.0M	2.0	15.0M	18.0	10.0M	33.0	5.0M	49.0	3.0M	66.0
	1.5M	86.0	8.0E	212.7	4.0E	264.4	2.0E	330.4	15.0E	522.0
	8.0E	659.8	4.0E	1000.0						
125.0	20.0M	2.0	15.0M	18.0	10.0M	33.0	5.0M	49.0	3.0M	66.0
	1.5M	86.0	8.0E	206.0	4.0E	264.7	2.0E	327.9	15.0E	513.7
	8.0E	627.6	4.0E	1000.0						

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE PROPOSED DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2003

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Ground Conductivity Data:

Region conductivity in mS/m followed by distance in km
 Azimuth to the end of region. E - map data; M - measurement data.

130.0	20.0M	2.0	15.0M	18.0	10.0M	33.0	5.0M	49.0	3.0M	66.0
	1.5M	86.0	8.0E	175.8	4.0E	273.8	2.0E	323.8	15.0E	466.2
	3.0E	500.8	4.0E	700.0	5000.0E	731.8	4.0E	1000.0		
135.0	20.0M	2.0	15.0M	18.0	10.0M	33.0	5.0M	49.0	3.0M	66.0
	1.5M	86.0	8.0E	150.4	4.0E	432.2	3.0E	530.9	4.0E	563.3
140.0	20.0M	2.0	15.0M	18.0	10.0M	33.0	5.0M	49.0	3.0M	66.0
	1.5M	86.0	8.0E	128.5	4.0E	200.6	8.0E	290.1	4.0E	406.7
	3.0E	602.3	5000.0E	1000.0						
142.9	20.0M	2.0	15.0M	18.0	10.0M	33.0	5.0M	49.0	3.0M	66.0
	1.5M	86.0	8.0E	116.9	4.0E	187.3	8.0E	347.9	4.0E	394.5
	3.0E	682.4	5000.0E	824.5	3.0E	850.8	5000.0E	888.2	3.0E	906.2
	5000.0E	908.1	3.0E	946.7	5000.0E	949.1	3.0E	995.3	5000.0E	1000.0
143.0	20.0M	2.0	15.0M	18.0	10.0M	33.0	5.0M	49.0	3.0M	66.0
	1.5M	86.0	8.0E	116.5	4.0E	187.0	8.0E	349.7	4.0E	394.1
	3.0E	684.3	5000.0E	814.6	3.0E	855.5	5000.0E	887.9	3.0E	998.3
144.0	10.0M	36.4	3.0M	90.0	2.0M	123.9	4.0E	183.5	8.0E	369.4
	4.0E	390.3	3.0E	702.9	5000.0E	765.7	3.0E	1000.0		
144.1	10.0M	36.4	3.0M	90.0	2.0M	123.9	4.0E	183.2	8.0E	371.5
	4.0E	389.9	3.0E	704.4	5000.0E	765.4	3.0E	1000.0		
145.0	10.0M	36.4	3.0M	90.0	2.0M	123.9	4.0E	180.2	8.0E	386.7
150.0	10.0M	36.4	3.0M	90.0	2.0M	123.9	4.0E	164.4	8.0E	214.3
	15.0E	281.0	5000.0E	307.8	15.0E	371.4	3.0E	772.3	5000.0E	939.5
	3.0E	972.5	5000.0E	984.9	3.0E	1000.0				
155.0	10.0M	36.4	3.0M	90.0	2.0M	123.9	4.0E	124.8	8.0E	131.9
	4.0E	150.1	8.0E	177.7	15.0E	226.7	5000.0E	925.4	3.0E	944.3
157.9	10.0M	36.4	3.0M	90.0	2.0M	123.9	8.0E	164.3	15.0E	202.6
158.0	10.0M	36.4	3.0M	90.0	2.0M	123.9	8.0E	164.2	15.0E	202.4
160.0	10.0M	36.4	3.0M	90.0	2.0M	123.9	8.0E	161.7	15.0E	198.8
163.0	10.0M	20.5	15.0M	48.0	7.0M	68.1	5.0M	95.0	3.0M	117.9
	4.0E	118.5	8.0E	158.5	15.0E	199.7	5000.0E	1000.0		
163.1	10.0M	20.5	15.0M	48.0	7.0M	68.1	5.0M	95.0	3.0M	117.9
	4.0E	118.5	8.0E	158.4	15.0E	199.4	5000.0E	1000.0		
165.0	10.0M	20.5	15.0M	48.0	7.0M	68.1	5.0M	95.0	3.0M	117.9
	8.0E	156.8	15.0E	167.8	5000.0E	190.7	15.0E	194.7	5000.0E	1000.0
166.9	10.0M	20.5	15.0M	48.0	7.0M	68.1	5.0M	95.0	3.0M	117.9
	8.0E	157.5	15.0E	161.4	5000.0E	1000.0				
167.0	10.0M	20.5	15.0M	48.0	7.0M	68.1	5.0M	95.0	3.0M	117.9
	8.0E	157.6	15.0E	161.1	5000.0E	1000.0				
170.0	10.0M	20.5	15.0M	48.0	7.0M	68.1	5.0M	95.0	3.0M	117.9
	8.0E	158.7	5000.0E	1000.0						
175.0	10.0M	20.5	15.0M	48.0	7.0M	68.1	5.0M	95.0	3.0M	117.9
	8.0E	159.7	5000.0E	1000.0						
178.0	20.0M	5.0	10.0M	36.5	15.0M	43.4	4.0M	72.8	1.0M	121.8
	8.0E	156.1	5000.0E	1000.0						
178.1	20.0M	5.0	10.0M	36.5	15.0M	43.4	4.0M	72.8	1.0M	121.8
	8.0E	155.9	5000.0E	1000.0						

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Ground Conductivity Data:

Region conductivity in mS/m followed by distance in km
 Azimuth to the end of region. E - map data; M - measurement data.

180.0	20.0M	5.0	10.0M	36.5	15.0M	43.4	4.0M	72.8	1.0M	121.8
	8.0E	153.7	5000.0E	1000.0						
185.0	20.0M	5.0	10.0M	36.5	15.0M	43.4	4.0M	72.8	1.0M	121.8
	8.0E	150.9	5000.0E	1000.0						
190.0	20.0M	5.0	10.0M	36.5	15.0M	43.4	4.0M	72.8	1.0M	121.8
	8.0E	144.9	5000.0E	1000.0						
191.9	20.0M	5.0	10.0M	36.5	15.0M	43.4	4.0M	72.8	1.0M	121.8
	8.0E	137.5	5000.0E	1000.0						
192.0	20.0M	5.0	10.0M	36.5	15.0M	43.4	4.0M	72.8	1.0M	121.8
	8.0E	137.1	5000.0E	1000.0						
195.0	10.0M	37.5	15.0M	48.7	4.0M	70.0	1.5M	128.0	8.0E	133.2
	5000.0E	1000.0								
197.0	10.0M	37.5	15.0M	48.7	4.0M	70.0	1.5M	128.0	8.0E	131.5
	5000.0E	1000.0								
197.1	10.0M	37.5	15.0M	48.7	4.0M	70.0	1.5M	128.0	8.0E	131.4
	5000.0E	1000.0								
200.0	10.0M	37.5	15.0M	48.7	4.0M	70.0	1.5M	128.0	8.0E	129.4
	5000.0E	1000.0								
205.0	10.0M	37.5	15.0M	48.7	4.0M	70.0	1.5M	128.0	5000.0E	1000.0
210.0	10.0M	37.5	15.0M	48.7	4.0M	70.0	1.5M	128.0	4.0E	132.7
	5000.0E	1000.0								
211.9	10.0M	37.5	15.0M	48.7	4.0M	70.0	1.5M	128.0	4.0E	134.1
	8.0E	135.9	5000.0E	1000.0						
212.0	10.0M	37.5	15.0M	48.7	4.0M	70.0	1.5M	128.0	4.0E	134.0
	8.0E	136.1	5000.0E	1000.0						
212.1	15.0M	64.7	10.0M	84.1	3.0M	134.1	0.1M	149.9	5000.0E	1000.0
215.0	15.0M	64.7	10.0M	84.1	3.0M	134.1	0.1M	149.9	5000.0E	1000.0
220.0	15.0M	64.7	10.0M	84.1	3.0M	134.1	0.1M	149.9	5000.0E	1000.0
225.0	15.0M	64.7	10.0M	84.1	3.0M	134.1	0.1M	149.9	8.0E	153.8
	5000.0E	1000.0								
230.0	15.0M	64.7	10.0M	84.1	3.0M	134.1	0.1M	149.9	8.0E	171.0
	5000.0E	1000.0								
232.0	15.0M	64.7	10.0M	84.1	3.0M	134.1	0.1M	149.9	8.0E	177.3
	5000.0E	1000.0								
232.1	8.0E	71.1	4.0E	125.4	8.0E	177.2	5000.0E	1000.0		
235.0	8.0E	72.9	4.0E	125.0	8.0E	176.7	5000.0E	1000.0		
240.0	8.0E	25.5	15.0E	39.0	8.0E	76.5	4.0E	125.1	8.0E	177.2
	5000.0E	1000.0								
245.0	8.0E	23.2	15.0E	46.4	8.0E	79.9	4.0E	126.2	8.0E	168.6
	5000.0E	1000.0								
250.0	8.0E	21.3	15.0E	48.2	8.0E	84.4	4.0E	124.9	8.0E	165.8
	5000.0E	1000.0								
255.0	8.0E	19.9	15.0E	50.5	8.0E	90.1	4.0E	119.6	8.0E	158.8
	5000.0E	1000.0								

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Ground Conductivity Data:

Region conductivity in mS/m followed by distance in km										
Azimuth	to the end of region. E - map data; M - measurement data.									
260.0	8.0E	18.8	15.0E	53.5	8.0E	166.4	5000.0E	1000.0		
265.0	8.0E	17.9	15.0E	55.3	8.0E	174.6	5000.0E	1000.0		
270.0	8.0E	18.3	15.0E	56.5	8.0E	175.2	5000.0E	1000.0		
275.0	8.0E	18.8	15.0E	58.3	8.0E	198.9	5000.0E	1000.0		
280.0	8.0E	19.6	15.0E	60.7	8.0E	217.9	5000.0E	1000.0		
285.0	8.0E	20.6	15.0E	62.4	8.0E	237.1	5000.0E	1000.0		
290.0	8.0E	21.8	15.0E	64.1	8.0E	250.4	15.0E	275.1	5000.0E	1000.0
295.0	8.0E	23.5	15.0E	66.4	8.0E	231.9	15.0E	294.7	5000.0E	1000.0
299.9	8.0E	25.5	15.0E	69.4	8.0E	249.3	15.0E	293.7	5000.0E	1000.0
300.0	3.0M	2.8	10.0M	17.5	15.0M	33.6	15.0E	69.4	8.0E	250.1
	15.0E	293.9	5000.0E	1000.0						
300.0	3.0M	2.8	10.0M	17.5	15.0M	33.6	15.0E	69.4	8.0E	250.1
	15.0E	293.9	5000.0E	1000.0						
305.0	3.0M	2.8	10.0M	17.5	15.0M	33.6	15.0E	73.3	8.0E	374.1
	5000.0E	1000.0								
310.0	3.0M	2.8	10.0M	17.5	15.0M	33.6	15.0E	77.1	8.0E	352.2
	30.0E	365.5	5000.0E	395.5	8.0E	408.8	5000.0E	432.8	30.0E	434.2
	5000.0E	455.4	30.0E	461.5	5000.0E	1000.0				
315.0	3.0M	2.8	10.0M	17.5	15.0M	33.6	8.0E	34.2	15.0E	81.6
	8.0E	299.8	15.0E	413.2	8.0E	415.4	5000.0E	430.9	30.0E	432.5
	8.0E	441.6	30.0E	582.2	5000.0E	1000.0				
319.9	3.0M	2.8	10.0M	17.5	15.0M	33.6	8.0E	38.6	15.0E	87.3
	8.0E	227.4	15.0E	379.4	30.0E	421.2	8.0E	566.2	4.0E	668.2
	5000.0E	678.2	4.0E	680.8	5000.0E	706.9	4.0E	715.7	5000.0E	1000.0
320.0	3.0M	2.8	10.0M	17.5	15.0M	33.6	8.0E	38.7	15.0E	87.5
	8.0E	227.0	15.0E	378.7	30.0E	422.3	8.0E	565.9	4.0E	683.1
	5000.0E	697.8	4.0E	716.6	5000.0E	1000.0				
320.0	3.0M	2.8	10.0M	17.5	15.0M	33.6	8.0E	38.7	15.0E	87.5
	8.0E	227.0	15.0E	378.7	30.0E	422.3	8.0E	565.9	4.0E	683.1
	5000.0E	697.8	4.0E	716.6	5000.0E	1000.0				
320.1	3.0M	7.0	10.0M	97.0	8.0E	226.7	15.0E	377.9	30.0E	423.5
	8.0E	565.6	4.0E	685.4	5000.0E	690.9	4.0E	717.5	5000.0E	1000.0
325.0	3.0M	7.0	10.0M	97.0	8.0E	211.2	15.0E	366.4	30.0E	507.7
	8.0E	560.3	4.0E	762.8	5000.0E	1000.0				
330.0	3.0M	7.0	10.0M	97.0	15.0E	104.8	8.0E	195.0	15.0E	495.6
	30.0E	563.2	8.0E	635.0	4.0E	904.9	5000.0E	1000.0		
331.9	3.0M	7.0	10.0M	97.0	15.0E	109.3	8.0E	188.4	15.0E	283.7
	8.0E	370.6	15.0E	537.2	30.0E	552.1	8.0E	645.2	4.0E	959.1
	5000.0E	1000.0								
332.0	3.0M	7.0	10.0M	97.0	15.0E	109.5	8.0E	188.1	15.0E	281.9
	8.0E	373.5	15.0E	538.8	30.0E	549.9	8.0E	645.3	4.0E	960.2
	5000.0E	1000.0								
335.0	3.0M	7.0	10.0M	97.0	15.0E	117.3	8.0E	179.0	15.0E	229.1
	8.0E	644.7	4.0E	1000.0						
340.0	10.0M	88.6	15.0E	133.2	8.0E	305.5	2.0E	369.5	8.0E	549.3
	4.0E	1000.0								

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE PROPOSED DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2003
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Ground Conductivity Data:

Region conductivity in mS/m followed by distance in km
 Azimuth to the end of region. E - map data; M - measurement data.

340.0	10.0M	88.6	15.0E	133.2	8.0E	305.5	2.0E	369.5	8.0E	549.3
	4.0E	1000.0								
340.1	10.0M	88.6	15.0E	133.5	8.0E	302.8	2.0E	372.5	8.0E	549.4
	4.0E	1000.0								
343.9	10.0M	88.6	15.0E	140.7	8.0E	250.8	2.0E	400.2	8.0E	561.7
	4.0E	723.2	8.0E	833.2	4.0E	1000.0				
344.0	10.0M	88.6	15.0E	140.9	8.0E	249.4	2.0E	400.4	8.0E	562.7
	4.0E	723.3	8.0E	832.8	4.0E	1000.0				
345.0	10.0M	88.6	15.0E	142.0	8.0E	236.6	2.0E	400.4	8.0E	570.3
	4.0E	732.8	8.0E	824.7	4.0E	1000.0				
350.0	2.0M	2.6	10.0M	109.0	4.0M	146.1	2.0E	153.0	8.0E	188.7
	2.0E	388.0	8.0E	641.2	4.0E	1000.0				
352.0	2.0M	2.6	10.0M	109.0	4.0M	146.1	2.0E	337.8	4.0E	379.3
	8.0E	666.1	4.0E	1000.0						
352.1	2.0M	2.6	10.0M	109.0	4.0M	146.1	2.0E	335.4	4.0E	378.9
	8.0E	667.8	4.0E	1000.0						
355.0	2.0M	2.6	10.0M	109.0	4.0M	146.1	2.0E	291.3	4.0E	373.5
	8.0E	430.2	4.0E	527.1	8.0E	708.5	4.0E	1000.0		
359.9	2.0M	2.6	10.0M	109.0	4.0M	146.1	2.0E	250.1	4.0E	394.1
	8.0E	413.3	4.0E	584.5	8.0E	710.1	4.0E	1000.0		

Engineering Exhibit of KGDP, Oildale, California

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE PROPOSED DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2004
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OILDALE, CA

Call: NEWKGDP

Coordinates: N 35 27 11 W 118 56 35

Frequency: 660 kHz Number of contours: 5

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :					
		Contour levels in mV/m.					
		.025	.500	.250	5.000	25.000	1000.0
0.0	274.72	225.34	109.00	109.00	35.15	9.60	0.26
4.0	301.44	189.45	68.29	91.12	28.93	9.19	
4.1	302.09	189.60	68.35	91.20	28.97	9.20	
5.0	307.90	190.96	68.90	91.92	29.31	9.35	0.30
10.0	338.05	197.64	71.66	92.00	31.01	10.07	0.33
15.0	363.38	205.53	73.86	92.00	32.37	10.67	0.36
20.0	382.70	212.28	75.48	92.00	33.36	11.11	0.37
20.1	383.02	248.44	90.23	111.28	40.66	12.36	
25.0	395.21	254.12	91.02	112.34	41.48	12.69	0.39
30.0	400.54	258.63	92.05	113.50	40.68	12.83	0.40
35.0	398.69	263.05	93.30	114.70	39.50	12.78	0.39
40.0	390.07	266.58	94.78	115.99	38.29	12.55	0.38
45.0	375.45	270.24	95.28	117.56	37.01	12.16	0.37
50.0	355.94	272.81	92.87	120.70	35.62	11.62	0.35
55.0	332.92	267.05	90.14	117.33	34.16	10.98	0.33
60.0	307.87	262.28	87.19	113.64	32.64	10.27	0.30
65.0	282.24	254.04	84.09	109.75	31.11	9.52	0.28
69.4	260.16	246.56	81.34	106.30	29.80	8.87	
69.5	259.67	186.78	51.22	69.11	17.09	6.19	
70.0	257.22	186.02	51.01	68.83	17.01	6.15	0.24
75.0	233.55	178.24	48.91	66.03	16.12	5.73	0.22
79.4	213.97	171.36	47.07	63.58	15.34	5.37	
79.5	213.54	171.20	47.03	63.53	15.33	5.36	
80.0	211.38	170.96	46.82	63.25	15.24	5.32	0.20
85.0	190.32	150.20	31.57	43.39	17.42	5.57	0.19
89.5	171.68	143.20	30.10	41.39	16.34	5.13	
89.6	171.26	142.99	30.07	41.35	16.32	5.12	
90.0	169.59	142.10	29.93	41.16	16.22	5.08	0.17
91.9	161.62	137.81	29.27	40.27	15.74	4.88	
92.0	161.20	137.57	29.24	40.22	15.71	4.87	
95.0	148.36	130.26	28.13	38.72	14.90	4.60	0.15
99.5	128.27	119.93	35.00	43.84	13.55	4.03	
99.6	127.81	119.75	35.00	43.77	13.52	4.01	
100.0	125.97	119.02	35.00	43.48	13.39	3.97	0.13
103.9	107.56	111.35	35.00	40.53	12.05	3.47	
104.0	107.08	111.14	35.00	40.45	12.01	3.45	
105.0	102.23	108.98	35.00	39.62	11.64	3.32	0.10

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE PROPOSED DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2004
 (Page 2 of 3)

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :					
		Contour levels in mV/m.					
		.025	.500	.250	5.000	25.000	1000.0
110.0	77.48	102.45	25.44	34.98	11.22	3.00	0.08
112.0	67.51	92.06	23.83	32.87	10.06	2.63	
112.1	67.01	91.51	23.74	32.76	10.00	2.61	
115.0	52.81	81.90	22.00	29.38	9.66	2.07	0.05
120.0	30.97	64.77	22.00	22.87	5.86	1.22	0.03
123.9	21.69	55.33	22.00	22.00	4.16	0.86	
124.0	21.63	55.26	22.00	22.00	4.15	0.86	
124.1	21.58	66.00	29.52	35.75	4.14	0.86	
125.0	21.57	66.00	29.52	35.75	4.14	0.86	0.02
130.0	31.98	66.00	33.00	44.35	6.04	1.27	0.03
135.0	46.44	77.41	37.27	49.00	8.58	1.83	0.05
140.0	57.54	85.03	41.93	49.00	10.46	2.25	0.06
142.9	61.56	89.00	43.46	49.00	11.12	2.40	
143.0	61.66	89.12	43.50	49.00	11.14	2.40	
144.0	62.56	100.66	36.40	46.58	10.77	2.40	
144.1	62.64	100.71	36.40	46.61	10.78	2.41	
145.0	63.21	101.10	36.40	46.80	10.87	2.43	0.06
150.0	62.85	100.86	36.40	46.68	10.81	2.41	0.06
155.0	57.27	96.96	36.40	44.75	9.96	2.21	0.06
157.9	53.01	93.83	36.40	43.19	9.30	2.05	
158.0	52.88	93.72	36.40	43.14	9.28	2.04	
160.0	50.58	91.97	36.40	42.27	8.92	1.96	0.05
163.0	50.27	112.33	48.00	66.32	8.87	1.94	
163.1	50.36	112.41	48.00	66.38	8.88	1.95	
165.0	53.46	115.17	48.00	68.10	9.37	2.06	
166.9	59.55	121.47	50.08	68.10	10.31	2.29	
167.0	59.95	121.96	50.27	68.10	10.37	2.31	
170.0	75.59	139.13	57.12	68.10	12.70	2.88	0.08
175.0	114.14	192.14	68.10	81.08	17.97	4.27	0.11
178.0	142.93	107.34	58.17	72.80	21.53	5.28	
178.1	143.95	107.67	58.36	72.80	21.66	5.32	
180.0	164.04	113.86	61.87	72.80	23.99	6.00	0.16
185.0	222.41	135.31	70.66	72.80	30.19	7.94	0.22
190.0	287.41	179.55	72.80	72.80	36.29	9.99	0.29
191.9	313.51	208.73	72.80	72.80	43.34	10.79	
192.0	314.90	210.22	72.80	72.80	43.40	10.83	
195.0	357.43	312.84	70.00	70.00	47.69	12.10	0.35
197.0	386.50	332.36	70.00	71.41	48.70	12.95	
197.1	387.96	333.30	70.00	71.53	48.70	12.99	
200.0	430.92	359.80	70.00	74.91	48.70	14.21	0.43
205.0	506.29	398.80	70.00	80.40	48.70	16.27	0.50
210.0	581.87	420.46	70.00	85.44	48.70	18.25	0.57
211.9	610.29	425.88	70.00	87.24	48.70	18.97	
212.0	611.78	426.30	70.00	87.33	48.70	19.01	
212.1	613.27	146.54	91.76	121.74	64.70	20.49	

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE PROPOSED DAYTIME OPERATION OF
KGDP, OILDALE, CALIFORNIA
OCTOBER 2004
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Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :					
		Contour levels in mV/m.					
		.025	.500	.250	5.000	25.000	1000.0
215.0	655.95	152.45	94.34	125.10	64.70	21.69	0.65
220.0	726.78	176.19	98.39	130.35	65.55	23.65	0.72
225.0	792.64	191.40	101.95	134.10	68.87	25.42	0.78
230.0	851.85	187.75	105.00	134.10	71.72	26.96	0.84
232.0	873.32	186.76	106.07	134.10	72.72	27.52	
232.1	874.36	760.88	152.78	249.56	65.78	23.74	
235.0	902.86	772.29	156.02	260.64	66.90	24.30	0.88
240.0	944.28	795.97	163.87	283.74	71.80	25.12	0.92
245.0	974.95	830.86	171.69	317.96	75.46	26.43	0.95
250.0	994.02	852.73	192.98	339.44	77.01	27.38	0.97
255.0	1000.99	889.36	229.40	375.92	78.17	27.91	0.98
260.0	995.73	924.73	264.92	411.40	79.02	28.05	0.97
265.0	978.52	904.21	244.94	391.24	79.01	27.83	0.95
270.0	950.00	897.07	238.62	384.72	78.25	27.05	0.93
275.0	911.19	838.69	193.05	326.95	77.18	25.94	0.89
280.0	863.38	791.46	190.03	280.29	75.85	24.54	0.84
285.0	808.08	742.54	186.00	235.33	73.87	22.86	0.79
290.0	746.90	677.27	181.17	229.55	71.49	21.09	0.73
295.0	681.51	648.71	175.79	223.08	68.88	19.67	0.67
299.9	614.91	616.93	169.94	216.03	64.70	18.15	
300.0	613.53	623.71	172.84	218.89	68.91	20.50	0.58
305.0	544.53	468.25	166.86	211.56	63.75	17.28	0.52
310.0	475.97	445.14	160.22	203.38	58.26	15.45	0.45
315.0	409.33	408.56	153.09	194.62	52.31	13.60	0.39
319.9	347.45	418.95	145.10	184.89	45.07	11.81	
320.0	346.24	418.83	144.94	184.68	44.92	11.77	0.33
320.1	345.02	402.92	135.66	175.36	41.14	11.74	
325.0	288.78	386.72	126.58	164.47	36.41	10.04	0.29
330.0	240.02	369.49	119.78	155.87	31.92	6.69	0.24
331.9	224.66	350.30	118.09	153.54	30.41	6.35	
332.0	223.91	349.74	118.02	153.43	30.34	6.34	
335.0	204.48	333.93	115.93	150.92	28.37	5.90	0.20
340.0	187.38	314.53	112.79	153.07	26.56	6.79	0.19
340.1	187.25	313.67	112.75	153.15	26.55	6.78	
343.9	188.48	296.64	113.18	155.81	26.68	6.82	
344.0	188.66	296.18	113.24	155.90	26.70	6.83	
345.0	190.91	291.95	114.02	156.87	26.94	6.91	0.19
350.0	211.18	221.29	109.00	109.00	29.05	7.57	0.20
352.0	222.38	211.19	109.00	109.00	30.19	7.94	
352.1	222.97	211.36	109.00	109.00	30.24	7.96	
355.0	241.13	216.52	109.00	109.00	32.02	8.54	0.23
359.9	274.04	225.17	109.00	109.00	35.09	9.58	

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KSTE, RANCHO CORDOVA, CALIFORNIA
OCTOBER 2004

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Call: KSTE
 RANCHO CORDOVA, CA
 Frequency: 650 kHz
 Latitude: 38-28-46 N
 Longitude: 121-16-34 W

Conductivity Database Used: US M3

Ground Conductivity Data:
 Region conductivity in mS/m followed by distance in km
 Azimuth to the end of region. E - map data; M - measurement data.

0.0	15.0E	68.5	8.0E	172.9	4.0E	358.7	8.0E	451.0	4.0E	646.7
5.0	15.0E	54.4	8.0E	180.8	4.0E	699.6	8.0E	733.0	15.0E	780.6
10.0	15.0E	46.9	8.0E	190.9	4.0E	763.1	15.0E	808.8	4.0E	1000.0
15.0	15.0E	41.4	8.0E	237.3	4.0E	242.0	8.0E	300.2	4.0E	817.3
20.0	15.0E	37.4	8.0E	396.0	4.0E	921.7	8.0E	991.9	1.0E	1000.0
25.0	15.0E	34.3	8.0E	416.0	4.0E	916.3	8.0E	953.8	1.0E	1006.7
30.0	15.0E	31.9	8.0E	433.3	4.0E	675.1	8.0E	725.8	4.0E	1000.0
35.0	15.0E	30.0	8.0E	454.7	4.0E	706.4	8.0E	777.7	4.0E	1000.0
40.0	15.0E	28.6	8.0E	227.5	4.0E	348.6	8.0E	480.3	4.0E	718.4
45.0	15.0E	27.5	8.0E	198.7	4.0E	369.4	8.0E	490.9	4.0E	725.3
50.0	15.0E	26.4	8.0E	187.5	4.0E	653.4	8.0E	1000.0		
55.0	15.0E	25.5	8.0E	183.7	4.0E	647.9	8.0E	1000.0		
60.0	15.0E	24.9	8.0E	188.1	4.0E	647.7	8.0E	1000.0		
65.0	15.0E	24.5	8.0E	84.5	2.0E	129.7	8.0E	202.4	4.0E	653.1
70.0	15.0E	24.3	8.0E	78.4	2.0E	140.6	8.0E	214.0	4.0E	670.0
75.0	15.0E	24.3	8.0E	77.4	2.0E	146.3	4.0E	155.4	8.0E	203.9
80.0	15.0E	24.4	8.0E	77.0	2.0E	147.3	4.0E	610.2	15.0E	807.4
85.0	15.0E	24.8	8.0E	77.2	2.0E	150.9	4.0E	606.1	15.0E	762.9
90.0	15.0E	25.4	8.0E	78.1	2.0E	155.8	4.0E	608.5	15.0E	766.5
95.0	15.0E	26.1	8.0E	80.7	2.0E	162.4	4.0E	603.3	15.0E	706.8
100.0	15.0E	27.2	8.0E	84.1	2.0E	172.2	4.0E	579.4	15.0E	716.4
105.0	15.0E	28.6	8.0E	88.4	2.0E	188.1	4.0E	544.7	8.0E	550.5
110.0	15.0E	30.3	8.0E	94.7	2.0E	208.9	4.0E	489.0	8.0E	564.4
115.0	15.0E	32.6	8.0E	107.3	2.0E	239.3	4.0E	460.5	8.0E	608.3
120.0	15.0E	35.5	8.0E	131.3	2.0E	290.3	4.0E	501.7	8.0E	661.3
122.9	15.0E	37.5	8.0E	151.6	2.0E	326.2	4.0E	508.7	8.0E	706.7
123.0	20.0M	32.0	15.0E	37.6	8.0E	152.2	2.0E	327.2	4.0E	508.2
125.0	20.0M	32.0	15.0E	39.2	8.0E	166.8	2.0E	350.2	4.0E	498.9
130.0	20.0M	32.0	15.0E	44.6	8.0E	221.0	2.0E	386.1	4.0E	476.4
135.0	20.0M	32.0	15.0E	54.5	8.0E	257.2	2.0E	374.5	4.0E	464.2
140.0	20.0M	32.0	15.0E	70.7	8.0E	123.2	15.0E	222.1	8.0E	261.3
	15.0E	312.0	2.0E	356.9	4.0E	459.1	8.0E	583.0	4.0E	661.9
141.9	20.0M	32.0	15.0E	221.1	8.0E	264.1	15.0E	318.1	8.0E	368.3
142.0	20.0M	32.0	15.0E	221.0	8.0E	264.5	15.0E	318.3	8.0E	369.7
143.0	30.0M	34.0	15.0E	216.5	8.0E	268.7	15.0E	321.2	8.0E	384.6
143.1	30.0M	34.0	15.0E	216.0	8.0E	269.1	15.0E	321.5	8.0E	386.2

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KSTE, RANCHO CORDOVA, CALIFORNIA
OCTOBER 2004

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Ground Conductivity Data:										
Region conductivity in mS/m followed by distance in km										
Azimuth	to the end of region. E - map data; M - measurement data.									
145.0	30.0M	34.0	15.0E	207.2	8.0E	277.7	15.0E	328.7	8.0E	412.3
150.0	30.0M	34.0	15.0E	189.1	8.0E	307.3	15.0E	386.2	8.0E	442.6
155.0	30.0M	34.0	15.0E	180.4	8.0E	356.6	15.0E	383.0	8.0E	428.7
159.9	30.0M	34.0	15.0E	173.9	8.0E	388.8	4.0E	482.1	8.0E	483.0
160.0	30.0M	34.0	15.0E	173.8	8.0E	387.8	4.0E	481.9	5000.0E	1000.0
160.0	30.0M	34.0	15.0E	173.8	8.0E	387.8	4.0E	481.9	5000.0E	1000.0
162.0	40.0M	41.0	15.0E	171.6	8.0E	375.2	4.0E	473.7	5000.0E	1000.0
162.1	40.0M	41.0	15.0E	171.5	8.0E	374.9	4.0E	473.6	5000.0E	1000.0
165.0	40.0M	41.0	15.0E	168.3	8.0E	377.9	4.0E	419.1	8.0E	463.7
170.0	40.0M	41.0	15.0E	158.3	8.0E	453.9	5000.0E	1000.0		
175.0	40.0M	41.0	15.0E	137.0	8.0E	337.6	5000.0E	1000.0		
180.0	40.0M	41.0	15.0E	129.3	8.0E	226.9	15.0E	238.7	8.0E	310.9
180.0	40.0M	41.0	15.0E	129.3	8.0E	226.9	15.0E	238.7	8.0E	310.9
	5000.0E	1000.0								
185.0	15.0E	127.5	8.0E	200.5	15.0E	252.0	8.0E	274.7	5000.0E	1000.0
186.9	15.0E	45.0	30.0E	50.6	15.0E	128.2	8.0E	192.4	15.0E	260.6
	8.0E	265.8	5000.0E	1000.0						
187.0	15.0M	37.0	15.0E	44.7	30.0E	50.6	15.0E	128.3	8.0E	192.0
	15.0E	261.2	8.0E	265.2	5000.0E	1000.0				
190.0	15.0M	37.0	15.0E	37.3	30.0E	51.7	15.0E	129.9	8.0E	184.6
	15.0E	254.3	5000.0E	1000.0						
195.0	15.0M	37.0	30.0E	53.9	15.0E	132.7	8.0E	184.5	5000.0E	213.4
	15.0E	227.5	5000.0E	1000.0						
200.0	15.0M	37.0	30.0E	55.0	15.0E	131.1	8.0E	178.7	5000.0E	1000.0
205.0	15.0M	37.0	30.0E	56.5	15.0E	128.3	30.0E	130.5	8.0E	183.9
	5000.0E	1000.0								
207.0	15.0M	37.0	30.0E	57.2	15.0E	126.7	30.0E	130.5	8.0E	181.7
	5000.0E	1000.0								
207.1	15.0E	19.8	30.0E	57.2	15.0E	126.6	30.0E	130.5	8.0E	181.5
	5000.0E	1000.0								
209.9	15.0E	18.5	30.0E	58.4	15.0E	124.7	30.0E	130.7	8.0E	177.4
	5000.0E	1000.0								
210.0	20.0M	32.0	30.0E	58.4	15.0E	124.6	30.0E	130.7	8.0E	177.2
	5000.0E	1000.0								
210.0	20.0M	32.0	30.0E	58.4	15.0E	124.6	30.0E	130.7	8.0E	177.2
	5000.0E	1000.0								
215.0	20.0M	32.0	30.0E	61.1	15.0E	121.7	30.0E	129.4	5000.0E	131.8
	8.0E	173.5	5000.0E	1000.0						
220.0	20.0M	32.0	30.0E	64.4	15.0E	119.0	30.0E	121.7	5000.0E	133.5
	8.0E	157.4	5000.0E	1000.0						
225.0	20.0M	32.0	30.0E	68.8	15.0E	116.1	30.0E	118.3	5000.0E	136.4
	8.0E	153.9	5000.0E	1000.0						
230.0	20.0M	32.0	30.0E	74.3	15.0E	113.2	30.0E	119.3	5000.0E	125.0
	8.0E	140.8	5000.0E	1000.0						
230.1	15.0E	13.3	30.0E	74.4	15.0E	113.2	30.0E	119.4	5000.0E	124.9
	8.0E	140.6	5000.0E	1000.0						

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KSTE, RANCHO CORDOVA, CALIFORNIA
OCTOBER 2004

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Ground Conductivity Data:

Region conductivity in mS/m followed by distance in km

Azimuth to the end of region. E - map data; M - measurement data.

235.0	15.0E	12.7	30.0E	81.5	15.0E	108.8	30.0E	113.2	5000.0E	126.7
	8.0E	131.6	5000.0E	1000.0						
240.0	15.0E	12.2	30.0E	81.3	8.0E	88.8	15.0E	103.4	30.0E	116.1
	5000.0E	121.1	30.0E	134.3	5000.0E	1000.0				
245.0	15.0E	11.8	30.0E	76.3	8.0E	98.8	5000.0E	118.1	30.0E	143.2
	5000.0E	1000.0								
250.0	15.0E	11.6	30.0E	72.4	8.0E	98.3	5000.0E	107.8	30.0E	148.1
	5000.0E	1000.0								
255.0	15.0E	11.6	30.0E	70.2	8.0E	112.4	30.0E	152.5	5000.0E	1000.0
260.0	15.0E	11.7	30.0E	69.8	8.0E	113.7	30.0E	151.9	5000.0E	1000.0
265.0	15.0E	11.9	30.0E	69.8	8.0E	115.9	30.0E	157.7	5000.0E	1000.0
270.0	15.0E	12.2	30.0E	70.4	8.0E	119.6	30.0E	163.8	5000.0E	1000.0
275.0	15.0E	12.6	30.0E	71.6	8.0E	125.7	30.0E	184.0	5000.0E	1000.0
280.0	15.0E	13.2	30.0E	74.3	8.0E	133.4	30.0E	200.6	5000.0E	1000.0
285.0	15.0E	13.9	30.0E	78.2	8.0E	145.7	30.0E	219.6	5000.0E	1000.0
290.0	15.0E	14.8	30.0E	83.3	8.0E	166.1	30.0E	221.9	4.0E	225.9
	5000.0E	1000.0								
295.0	15.0E	16.0	30.0E	89.8	8.0E	197.4	4.0E	241.3	5000.0E	1000.0
300.0	15.0E	17.5	30.0E	98.3	8.0E	184.7	4.0E	248.0	5000.0E	1000.0
305.0	15.0E	19.5	30.0E	109.0	8.0E	174.7	4.0E	274.8	5000.0E	1000.0
310.0	15.0E	22.1	30.0E	117.6	8.0E	168.6	4.0E	347.7	5000.0E	1000.0
315.0	15.0E	25.9	30.0E	128.6	8.0E	168.9	4.0E	358.0	5000.0E	1000.0
320.0	15.0E	31.5	30.0E	141.3	8.0E	176.5	4.0E	372.9	5000.0E	1000.0
325.0	15.0E	40.6	30.0E	156.4	8.0E	194.8	4.0E	405.8	5000.0E	1000.0
330.0	15.0E	75.5	30.0E	167.4	8.0E	238.5	4.0E	518.7	5000.0E	1000.0
335.0	15.0E	121.5	30.0E	166.3	8.0E	251.6	4.0E	598.8	5000.0E	1000.0
340.0	15.0E	147.4	8.0E	257.6	4.0E	669.4	5000.0E	1000.0		
345.0	15.0E	134.3	8.0E	253.3	4.0E	809.0	5000.0E	1000.0		
350.0	15.0E	129.3	8.0E	188.8	4.0E	206.8	8.0E	239.5	4.0E	865.9
	5000.0E	866.3	4.0E	920.4	2.0E	1000.0				
355.0	15.0E	102.2	8.0E	173.8	4.0E	363.4	8.0E	462.6	4.0E	986.5
	5000.0E	1000.0								

Engineering Exhibit of KGDP, Oildale, California

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE LICENSED DAYTIME OPERATION OF
KSTE, RANCHO CORDOVA, CALIFORNIA
OCTOBER 2004
 (Page 1 of 2)

RANCHO CORDOVA, CA

Call: KSTE

Coordinates: N 38 28 46 W 121 16 34

Frequency: 650 kHz Number of contours: 2

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		.500	.250
0.0	2267.00	251.72	303.97
5.0	2194.44	249.06	300.92
10.0	2075.80	246.78	297.87
15.0	1942.79	256.43	315.41
20.0	1835.36	252.12	313.69
25.0	1746.88	247.34	308.32
30.0	1649.80	242.19	302.49
35.0	1544.94	236.47	295.99
40.0	1433.42	229.59	275.76
45.0	1316.68	217.07	262.10
50.0	1196.50	208.37	252.13
55.0	1074.90	201.23	243.55
60.0	954.26	196.01	236.76
65.0	837.28	139.33	191.46
70.0	727.11	126.22	164.93
75.0	627.41	120.54	147.74
80.0	542.47	115.58	140.92
85.0	476.91	111.75	135.79
90.0	434.60	109.57	132.70
95.0	416.50	109.91	132.64
100.0	419.25	112.16	134.95
105.0	436.17	115.92	139.09
110.0	460.05	121.25	144.93
115.0	485.04	130.17	154.38
120.0	507.03	144.94	169.59
123.0	517.64	157.30	182.15
125.0	523.39	163.47	190.09
130.0	534.34	166.04	212.83
135.0	536.11	168.84	215.67
140.0	527.20	194.56	249.24
141.9	522.60	217.52	265.48
142.0	522.33	217.48	265.26
143.0	519.48	218.11	264.55
143.1	519.18	217.93	264.36
145.0	512.97	214.54	260.84
150.0	492.55	206.43	252.29
155.0	468.16	200.71	246.02

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE LICENSED DAYTIME OPERATION OF
KSTE, RANCHO CORDOVA, CALIFORNIA
OCTOBER 2004
 (Page 2 of 2)

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		.500	.250
159.9	443.84	195.47	240.16
160.0	443.37	195.37	240.05
160.0	443.37	195.37	240.05
162.0	434.47	195.10	239.54
162.1	434.05	195.01	239.44
165.0	423.48	192.50	236.65
170.0	415.39	188.21	232.15
175.0	426.24	182.94	227.16
180.0	460.72	185.07	231.47
180.0	460.72	185.07	231.47
180.1	461.66	181.35	226.63
185.0	519.17	187.92	247.59
186.9	547.06	192.19	257.64
187.0	548.61	192.61	258.19
190.0	598.40	205.86	292.94
195.0	693.87	249.41	394.75
200.0	801.12	309.16	455.64
205.0	916.29	326.42	474.32
207.0	963.81	343.41	491.63
207.1	966.21	349.95	498.19
209.9	1033.65	376.40	525.33
210.0	1036.07	376.52	525.48
210.0	1036.07	376.52	525.48
215.0	1157.63	416.03	565.56
220.0	1278.51	488.83	639.06
225.0	1396.55	530.25	681.09
230.0	1509.91	555.96	707.57
230.0	1509.91	555.96	707.57
230.1	1512.12	558.45	710.06
235.0	1617.05	610.04	761.91
240.0	1716.72	620.61	772.66
245.0	1808.02	620.68	772.88
250.0	1890.36	615.69	768.54
255.0	1963.43	586.71	740.11
260.0	2027.25	591.02	744.45
265.0	2082.07	589.15	742.57
270.0	2128.35	584.06	737.47
275.0	2166.71	565.88	719.27
280.0	2197.91	548.81	702.19
285.0	2222.73	524.35	677.72
290.0	2241.98	483.36	636.74
295.0	2258.47	340.10	493.58
300.0	2289.35	322.36	476.00
305.0	2327.15	271.81	419.41
310.0	2354.02	273.31	326.01

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 1 of 4)

Call: KIRN
 SIMI VALLEY, CA
 Frequency: 670 kHz
 Latitude: 34-19-10 N
 Longitude: 118-42-56 W

Conductivity Database Used: US M3

Ground Conductivity Data:									
Region conductivity in mS/m followed by distance in km									
Azimuth	to the end of region. E - map data; M - measurement data.								
0.0	1.5M	20.0	4.0E	104.9	8.0E	153.4	4.0E	185.8	2.0E 345.9
	4.0E	723.3	8.0E	834.6	4.0E	1000.0			
5.0	1.5M	20.0	4.0E	189.9	2.0E	311.2	4.0E	722.8	8.0E 830.5
	4.0E	1000.0							
10.0	1.5M	20.0	4.0E	196.1	2.0E	280.2	4.0E	778.9	8.0E 809.2
	4.0E	1000.0							
10.1	8.0E	12.1	4.0E	196.2	2.0E	279.5	4.0E	780.3	8.0E 807.9
	4.0E	1000.0							
15.0	8.0E	12.4	4.0E	204.2	2.0E	244.6	4.0E	1000.0	
18.4	8.0E	12.7	4.0E	55.1	8.0E	74.5	4.0E	918.7	8.0E 963.5
	4.0E	1002.2							
18.5	3.0M	25.0	4.0E	55.1	8.0E	74.8	4.0E	916.8	8.0E 966.2
	4.0E	1000.6							
20.0	3.0M	25.0	4.0E	54.6	8.0E	79.5	4.0E	896.7	8.0E 1000.0
25.0	3.0M	25.0	4.0E	53.2	8.0E	100.2	4.0E	839.9	8.0E 1000.0
30.0	3.0M	25.0	4.0E	52.2	8.0E	119.4	4.0E	799.2	8.0E 937.7
	15.0E	965.1	8.0E	1000.0					
35.0	3.0M	25.0	4.0E	51.7	8.0E	148.8	4.0E	324.9	8.0E 331.4
	4.0E	664.1	15.0E	977.9	8.0E	1000.0			
38.5	3.0M	25.0	4.0E	52.3	8.0E	170.9	4.0E	313.2	8.0E 361.5
	4.0E	616.7	15.0E	935.7	4.0E	998.0	8.0E	1000.0	
38.6	8.0E	15.8	4.0E	52.3	8.0E	171.6	4.0E	312.9	8.0E 362.5
	4.0E	615.6	15.0E	934.7	4.0E	996.2	8.0E	1000.0	
40.0	8.0E	16.1	4.0E	52.6	8.0E	182.7	4.0E	307.9	8.0E 377.0
	4.0E	599.7	15.0E	922.0	4.0E	979.6	2.0E	1010.2	
45.0	8.0E	17.6	4.0E	54.0	8.0E	228.1	4.0E	289.4	8.0E 421.0
	15.0E	806.6	8.0E	867.7	15.0E	883.6	4.0E	946.4	15.0E 1000.0
50.0	8.0E	19.6	4.0E	55.9	8.0E	396.0	15.0E	703.3	8.0E 837.8
	15.0E	932.7	4.0E	1000.0					
51.9	8.0E	20.5	4.0E	56.8	8.0E	392.0	15.0E	604.1	30.0E 702.6
	8.0E	811.5	15.0E	923.1	4.0E	996.5	8.0E	1000.0	
52.0	2.0M	35.0	4.0E	56.8	8.0E	391.8	15.0E	603.1	30.0E 702.7
	8.0E	810.8	15.0E	923.4	4.0E	995.8	8.0E	1000.0	
55.0	2.0M	35.0	4.0E	58.4	8.0E	384.9	15.0E	594.4	30.0E 709.7
	8.0E	817.3	15.0E	1000.0					
60.0	2.0M	35.0	4.0E	61.6	8.0E	372.2	15.0E	535.5	8.0E 675.4
	30.0E	730.5	8.0E	826.3	15.0E	909.0	4.0E	1000.0	

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004

(Page 2 of 4)

Ground Conductivity Data:										
Region conductivity in mS/m followed by distance in km										
Azimuth	to the end of region. E - map data; M - measurement data.									
65.0	2.0M	35.0	4.0E	66.3	8.0E	362.3	15.0E	496.3	8.0E	659.9
	15.0E	748.4	8.0E	816.3	15.0E	925.4	4.0E	1000.0		
70.0	2.0M	35.0	8.0E	35.2	4.0E	72.5	8.0E	360.4	15.0E	479.9
	8.0E	657.2	15.0E	747.7	8.0E	886.7	15.0E	979.5	4.0E	1000.0
72.0	2.0M	35.0	8.0E	36.3	4.0E	75.5	8.0E	361.4	15.0E	477.4
	8.0E	665.9	15.0E	752.0	8.0E	906.8	15.0E	1000.0		
72.1	8.0E	36.3	4.0E	75.7	8.0E	361.4	15.0E	477.3	8.0E	666.1
	15.0E	752.3	8.0E	907.8	15.0E	1000.0				
75.0	8.0E	37.4	4.0E	81.2	8.0E	362.5	15.0E	474.8	8.0E	674.9
	15.0E	760.9	8.0E	932.9	15.0E	1000.0				
75.4	8.0E	37.2	4.0E	82.3	8.0E	362.7	15.0E	474.5	8.0E	676.3
	15.0E	762.2	8.0E	936.3	15.0E	1000.0				
75.5	0.5M	2.9	3.0M	35.0	8.0E	37.1	4.0E	82.6	8.0E	362.8
	15.0E	474.5	8.0E	676.6	15.0E	762.6	8.0E	937.2	15.0E	1000.0
80.0	0.5M	2.9	3.0M	35.0	8.0E	35.3	4.0E	97.3	8.0E	365.9
	15.0E	478.4	8.0E	694.8	15.0E	848.9	8.0E	1000.0		
85.0	0.5M	2.9	3.0M	35.0	4.0E	124.6	8.0E	369.7	15.0E	487.6
	8.0E	747.3	15.0E	877.1	8.0E	1000.0				
90.0	0.5M	2.9	3.0M	35.0	4.0E	194.4	8.0E	375.6	15.0E	527.2
	8.0E	801.5	4.0E	957.1	8.0E	1000.0				
95.0	0.5M	2.9	3.0M	35.0	4.0E	201.2	2.0E	225.1	8.0E	339.8
	15.0E	614.9	8.0E	866.9	4.0E	1000.0				
95.5	0.5M	2.9	3.0M	35.0	4.0E	200.6	2.0E	228.6	8.0E	330.7
	15.0E	618.4	8.0E	876.0	4.0E	1000.0				
95.6	8.0E	35.0	4.0E	200.5	2.0E	229.3	8.0E	328.9	15.0E	618.9
	8.0E	877.9	4.0E	1000.0						
100.0	8.0E	37.3	4.0E	194.6	2.0E	267.1	8.0E	279.1	15.0E	764.9
	8.0E	981.3	4.0E	1000.0						
105.0	8.0E	61.1	4.0E	83.1	8.0E	115.1	4.0E	195.4	2.0E	252.4
	15.0E	828.7	8.0E	1000.0						
110.0	8.0E	145.6	4.0E	228.8	2.0E	241.7	15.0E	476.4	8.0E	569.4
	15.0E	753.2	8.0E	869.8	4.0E	977.2	2.0E	1000.0		
115.0	8.0E	168.1	4.0E	264.5	15.0E	404.9	3.0E	410.0	15.0E	422.6
	8.0E	584.2	4.0E	972.5	2.0E	1000.0				
119.9	8.0E	189.4	4.0E	301.9	15.0E	356.3	3.0E	411.6	4.0E	1000.0
120.0	6.0M	40.0	8.0E	189.9	4.0E	303.1	15.0E	355.5	3.0E	411.5
	4.0E	1000.0								
120.0	6.0M	40.0	8.0E	189.9	4.0E	303.1	15.0E	355.5	3.0E	411.5
	4.0E	1000.0								
125.0	6.0M	40.0	8.0E	45.8	15.0E	112.6	8.0E	219.4	4.0E	319.7
	3.0E	431.9	4.0E	527.0	5000.0E	653.1	4.0E	1000.0		
130.0	6.0M	40.0	8.0E	40.4	15.0E	169.5	8.0E	250.0	4.0E	292.8
	3.0E	477.9	5000.0E	772.9	4.0E	793.8	5000.0E	797.1	4.0E	1000.0
135.0	6.0M	40.0	15.0E	135.2	5000.0E	176.4	15.0E	220.0	8.0E	272.2
	3.0E	541.3	5000.0E	1000.0						
140.0	6.0M	40.0	15.0E	80.3	5000.0E	211.7	15.0E	256.0	3.0E	904.0

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 3 of 4)

Ground Conductivity Data:

Region conductivity in mS/m followed by distance in km

Azimuth to the end of region. E - map data; M - measurement data.

140.1	8.0E	33.3	15.0E	80.1	5000.0E	211.6	15.0E	255.7	3.0E	906.8
	5000.0E	910.0	3.0E	915.6	5000.0E	930.5	3.0E	1000.0		
145.0	8.0E	31.9	15.0E	77.3	5000.0E	299.4	3.0E	313.1	5000.0E	321.6
	3.0E	324.2	5000.0E	343.5	3.0E	720.1	5000.0E	731.8	3.0E	755.5
	5000.0E	789.8	3.0E	1000.0						
150.0	8.0E	31.4	15.0E	39.6	5000.0E	60.3	15.0E	75.3	5000.0E	829.3
	3.0E	917.0	5000.0E	1000.0						
155.0	8.0E	31.1	15.0E	34.1	5000.0E	65.5	15.0E	68.0	5000.0E	1000.0
160.0	8.0E	31.1	15.0E	32.3	5000.0E	1000.0				
165.0	8.0E	31.1	5000.0E	1000.0						
169.9	8.0E	31.1	5000.0E	1000.0						
170.0	6.0M	35.0	5000.0E	1000.0						
170.0	6.0M	35.0	5000.0E	1000.0						
175.0	6.0M	35.0	5000.0E	1000.0						
180.0	6.0M	35.0	5000.0E	1000.0						
185.0	6.0M	35.0	5000.0E	1000.0						
190.0	6.0M	35.0	5000.0E	1000.0						
190.0	6.0M	35.0	5000.0E	1000.0						
190.1	8.0E	33.4	5000.0E	1000.0						
195.0	8.0E	34.0	5000.0E	1000.0						
200.0	8.0E	33.7	5000.0E	1000.0						
205.0	8.0E	33.7	5000.0E	1000.0						
210.0	8.0E	33.9	5000.0E	1000.0						
215.0	8.0E	34.4	5000.0E	1000.0						
219.9	8.0E	35.2	5000.0E	1000.0						
220.0	7.0M	40.0	5000.0E	1000.0						
220.0	7.0M	40.0	5000.0E	1000.0						
225.0	7.0M	40.0	5000.0E	1000.0						
230.0	7.0M	40.0	5000.0E	1000.0						
235.0	7.0M	40.0	8.0E	42.2	5000.0E	1000.0				
240.0	7.0M	40.0	8.0E	43.9	5000.0E	1000.0				
240.0	7.0M	40.0	8.0E	43.9	5000.0E	1000.0				
240.1	8.0E	44.0	5000.0E	1000.0						
245.0	8.0E	46.1	5000.0E	1000.0						
250.0	8.0E	48.9	5000.0E	1000.0						
255.0	8.0E	49.4	5000.0E	1000.0						
260.0	8.0E	50.0	5000.0E	1000.0						
264.4	8.0E	52.1	5000.0E	1000.0						
264.5	3.0M	40.0	8.0E	52.3	5000.0E	1000.0				
265.0	3.0M	40.0	8.0E	52.8	5000.0E	1000.0				
270.0	3.0M	40.0	8.0E	58.9	5000.0E	1000.0				
275.0	3.0M	40.0	8.0E	67.3	5000.0E	1000.0				
280.0	3.0M	40.0	8.0E	52.3	4.0E	96.8	8.0E	180.3	5000.0E	1000.0
284.5	3.0M	40.0	4.0E	106.7	8.0E	178.8	5000.0E	1000.0		
284.6	8.0E	39.0	4.0E	106.9	8.0E	178.9	5000.0E	1000.0		
285.0	8.0E	38.1	4.0E	108.0	8.0E	179.7	5000.0E	1000.0		

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 4 of 4)

Ground Conductivity Data:

Region conductivity in mS/m followed by distance in km

Azimuth to the end of region. E - map data; M - measurement data.

287.9	8.0E	33.0	4.0E	116.2	8.0E	182.1	5000.0E	1000.0		
288.0	3.0M	35.0	4.0E	116.5	8.0E	182.1	5000.0E	1000.0		
290.0	3.0M	35.0	4.0E	122.3	8.0E	184.2	5000.0E	1000.0		
295.0	3.0M	35.0	4.0E	138.9	8.0E	192.2	5000.0E	1000.0		
300.0	3.0M	35.0	4.0E	158.3	8.0E	224.3	5000.0E	1000.0		
305.0	3.0M	35.0	4.0E	166.2	8.0E	288.4	5000.0E	1000.0		
308.0	3.0M	35.0	4.0E	166.5	8.0E	333.7	15.0E	335.9	5000.0E	1000.0
308.1	8.0E	17.9	4.0E	166.3	8.0E	333.6	15.0E	338.1	5000.0E	1000.0
310.0	8.0E	17.3	4.0E	163.7	8.0E	332.0	15.0E	374.1	5000.0E	1000.0
315.0	8.0E	15.9	4.0E	127.9	8.0E	322.5	15.0E	388.3	5000.0E	422.0
	8.0E	462.4	5000.0E	1000.0						
320.0	8.0E	14.8	4.0E	98.6	8.0E	468.7	5000.0E	500.4	8.0E	514.2
	5000.0E	517.5	30.0E	578.7	5000.0E	589.3	30.0E	591.2	5000.0E	1000.0
321.4	8.0E	14.5	4.0E	93.9	8.0E	442.0	15.0E	491.8	30.0E	506.1
	5000.0E	527.5	30.0E	692.2	5000.0E	1000.0				
321.5	0.5M	3.5	1.0M	15.0	4.0E	93.7	8.0E	440.4	15.0E	495.4
	30.0E	507.4	5000.0E	515.6	30.0E	520.3	5000.0E	527.6	30.0E	694.2
325.0	0.5M	3.5	1.0M	15.0	4.0E	87.3	8.0E	413.2	15.0E	513.4
	30.0E	514.7	8.0E	680.3	4.0E	841.4	5000.0E	1000.0		
330.0	0.5M	3.5	1.0M	15.0	4.0E	80.0	8.0E	122.3	15.0E	161.7
	8.0E	347.0	15.0E	477.3	30.0E	621.6	8.0E	678.5	4.0E	902.8
334.9	0.5M	3.5	1.0M	15.0	4.0E	74.4	8.0E	118.5	15.0E	189.2
	8.0E	330.4	15.0E	641.2	30.0E	682.0	8.0E	766.7	4.0E	1000.0
335.0	0.5M	3.5	1.0M	15.0	4.0E	74.3	8.0E	118.5	15.0E	189.6
	8.0E	330.1	15.0E	645.5	30.0E	681.7	8.0E	767.0	4.0E	1000.0
335.0	0.5M	3.5	1.0M	15.0	4.0E	74.3	8.0E	118.5	15.0E	189.6
	8.0E	330.1	15.0E	645.5	30.0E	681.7	8.0E	767.0	4.0E	1000.0
340.0	0.5M	98.7	3.0M	120.0	8.0E	122.7	15.0E	218.4	8.0E	310.2
	15.0E	369.3	8.0E	679.2	4.0E	730.2	8.0E	745.7	4.0E	1000.0
341.5	0.5M	98.7	3.0M	120.0	8.0E	126.6	15.0E	229.1	8.0E	304.3
	15.0E	338.4	8.0E	674.6	4.0E	1000.0				
341.6	0.5M	98.7	3.0M	120.0	8.0E	126.8	15.0E	229.9	8.0E	304.0
	15.0E	337.0	8.0E	674.7	4.0E	1000.0				
345.0	0.5M	98.7	3.0M	120.0	8.0E	179.3	15.0E	257.0	8.0E	402.0
	2.0E	525.2	8.0E	685.4	4.0E	850.1	8.0E	959.8	4.0E	1000.0
349.9	0.5M	98.7	3.0M	120.0	8.0E	207.1	15.0E	265.9	2.0E	277.3
	8.0E	322.3	2.0E	518.7	8.0E	766.7	4.0E	1000.0		
350.0	0.5M	98.7	3.0M	120.0	8.0E	207.6	15.0E	264.9	2.0E	278.0
	8.0E	321.0	2.0E	517.8	8.0E	767.4	4.0E	1000.0		
350.0	0.5M	98.7	3.0M	120.0	8.0E	207.6	15.0E	264.9	2.0E	278.0
	8.0E	321.0	2.0E	517.8	8.0E	767.4	4.0E	1000.0		
355.0	1.5M	20.0	4.0E	83.4	8.0E	204.7	2.0E	400.6	4.0E	501.3
	8.0E	552.7	4.0E	670.1	8.0E	838.1	4.0E	1000.0		
355.0	1.5M	20.0	4.0E	83.4	8.0E	204.7	2.0E	400.6	4.0E	501.3
	8.0E	552.7	4.0E	670.1	8.0E	838.1	4.0E	1000.0		
355.1	1.5M	20.0	4.0E	83.8	8.0E	204.1	2.0E	399.2	4.0E	501.4
	8.0E	552.1	4.0E	671.3	8.0E	838.5	4.0E	1000.0		

Engineering Exhibit of KGDP, Oildale, California

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE LICENSED DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 1 of 3)

SIMI VALLEY, CA

Call: KIRNlic

Coordinates: N 34 19 10 W 118 42 56

Frequency: 670 kHz Number of contours: 2

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		.500	.250
0.0	209.08	55.12	78.28
5.0	205.49	54.60	77.63
10.0	194.97	53.07	75.69
10.1	194.69	68.58	91.19
15.0	178.25	66.12	88.08
18.4	164.00	68.75	92.15
18.5	163.55	59.57	86.25
20.0	156.68	58.06	86.59
25.0	132.49	52.40	82.61
30.0	109.25	47.60	73.99
35.0	92.48	43.68	66.77
38.5	87.88	42.53	64.22
38.6	87.86	49.12	74.52
40.0	88.03	49.26	74.58
45.0	96.16	51.68	78.31
50.0	110.21	55.46	84.29
51.9	115.53	56.95	86.43
52.0	115.80	36.25	55.31
55.0	123.00	37.74	57.18
60.0	129.79	39.10	58.88
65.0	128.13	38.77	58.48
70.0	118.36	36.86	56.05
72.0	113.14	36.06	55.05
72.1	112.88	61.32	82.64
75.0	106.10	60.18	78.71
75.4	105.40	59.96	78.46
75.5	105.24	45.42	63.91
80.0	107.19	45.22	63.82
85.0	139.83	51.74	72.01
90.0	203.16	62.09	85.03
95.0	287.39	72.90	98.73
95.5	296.66	73.96	100.07
95.6	298.53	88.70	114.87
100.0	385.41	98.40	127.03
105.0	492.24	126.98	158.19
110.0	603.78	153.48	187.00
115.0	716.36	167.43	203.20
119.9	824.57	176.49	217.23

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE LICENSED DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 2 of 3)

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		.500	.250
120.0	826.74	171.46	213.65
125.0	932.14	200.43	244.16
130.0	1030.36	226.82	272.66
135.0	1119.74	265.11	304.73
140.0	1199.22	295.74	333.92
140.0	1199.22	295.74	333.92
140.1	1200.70	299.37	337.57
145.0	1268.25	372.51	411.41
150.0	1326.75	589.63	738.03
155.0	1374.93	614.95	763.58
160.0	1413.26	624.56	773.36
165.0	1442.28	629.64	778.57
169.9	1462.21	632.68	781.69
170.0	1462.54	617.39	766.40
170.0	1462.54	617.39	766.40
175.0	1474.49	619.16	768.21
180.0	1478.44	619.74	768.81
185.0	1474.49	619.16	768.21
190.0	1462.54	617.39	766.40
190.0	1462.54	617.39	766.40
190.1	1462.21	629.81	778.82
195.0	1442.28	626.07	775.00
200.0	1413.26	622.05	770.86
205.0	1374.93	616.20	764.84
210.0	1326.75	608.35	756.75
215.0	1268.25	598.29	746.37
219.9	1200.70	586.01	733.69
220.0	1199.22	573.16	720.83
220.0	1199.22	573.16	720.83
225.0	1119.74	558.48	706.03
230.0	1030.36	541.15	687.95
235.0	932.14	516.87	662.99
240.0	826.74	489.30	634.09
240.0	826.74	489.30	634.09
240.1	824.57	494.69	639.44
245.0	716.36	462.25	605.95
250.0	603.78	422.78	565.00
255.0	492.24	381.72	521.46
260.0	385.41	333.66	470.11
264.4	298.53	282.17	414.44
264.5	296.66	192.30	324.48
265.0	287.39	185.27	317.00
270.0	203.16	109.51	233.65
275.0	139.83	56.78	142.71
280.0	107.19	46.40	67.13

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE LICENSED DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 3 of 3)

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		.500	.250
284.5	105.24	43.65	62.14
284.6	105.40	60.57	79.06
285.0	106.10	60.44	78.97
287.9	112.88	60.22	79.13
288.0	113.14	46.40	65.33
290.0	118.36	47.51	66.71
295.0	128.13	49.50	69.20
300.0	129.79	49.83	69.61
305.0	123.00	48.47	67.91
308.0	115.80	46.98	66.03
308.1	115.53	56.14	75.19
310.0	110.21	54.81	73.58
315.0	96.16	51.20	69.16
320.0	88.03	48.90	66.36
321.4	87.86	48.79	66.23
321.5	87.88	30.56	48.00
325.0	92.48	31.71	49.45
330.0	109.25	35.62	54.34
334.9	132.00	40.33	60.21
335.0	132.49	40.42	60.33
335.0	132.49	40.42	60.33
340.0	156.68	22.51	31.41
341.5	163.55	22.98	32.06
341.6	164.00	23.01	32.10
345.0	178.25	23.96	33.41
349.9	194.69	25.00	34.84
350.0	194.97	25.02	34.87
350.0	194.97	25.02	34.87
355.0	205.49	54.60	77.63
355.0	205.49	54.60	77.63
355.1	205.64	54.62	77.66

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE AUTHORIZED (CP) DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 1 of 4)

Call: KIRN (CP)
 SIMI VALLEY, CA
 Frequency: 670 kHz
 Latitude: 34-41-09 N
 Longitude: 118-17-26 W

Conductivity Database Used: US M3

Ground Conductivity Data:										
Region conductivity in mS/m followed by distance in km										
Azimuth	to the end of region. E - map data; M - measurement data.									
0.0	10.0M	3.7	20.0M	16.4	15.0M	31.2	2.0M	71.7	0.5M	108.0
	4.0E	153.2	2.0E	255.1	4.0E	685.5	8.0E	791.1	4.0E	1000.0
5.0	10.0M	3.7	20.0M	16.4	15.0M	31.2	2.0M	71.7	0.5M	108.0
	4.0E	156.8	2.0E	219.6	4.0E	702.1	8.0E	784.1	4.0E	1000.0
9.9	10.0M	3.7	20.0M	16.4	15.0M	31.2	2.0M	71.7	0.5M	108.0
	4.0E	1000.0								
10.0	10.0M	3.7	20.0M	16.4	15.0M	31.2	2.0M	71.7	0.5M	108.0
	4.0E	1000.0								
10.1	20.0M	20.4	15.0M	30.9	8.0M	60.0	7.0M	80.0	5.0M	127.1
	4.0E	1000.0								
15.0	20.0M	20.4	15.0M	30.9	8.0M	60.0	7.0M	80.0	5.0M	127.1
	4.0E	969.8	8.0E	1000.0						
20.0	20.0M	20.4	15.0M	30.9	8.0M	60.0	7.0M	80.0	5.0M	127.1
	4.0E	829.4	8.0E	1000.0						
25.0	20.0M	20.4	15.0M	30.9	8.0M	60.0	7.0M	80.0	5.0M	127.1
	4.0E	776.8	8.0E	1000.0						
29.9	20.0M	20.4	15.0M	30.9	8.0M	60.0	7.0M	80.0	5.0M	127.1
	4.0E	741.2	8.0E	872.4	15.0E	912.3	8.0E	1000.0		
30.0	20.0M	20.4	15.0M	30.9	8.0M	60.0	7.0M	80.0	5.0M	127.1
	4.0E	740.8	8.0E	870.3	15.0E	912.7	8.0E	1000.0		
30.0	20.0M	20.4	15.0M	30.9	8.0M	60.0	7.0M	80.0	5.0M	127.1
	4.0E	740.8	8.0E	870.3	15.0E	912.7	8.0E	1000.0		
30.1	10.0M	3.2	20.0M	30.0	10.0M	65.0	7.0M	95.4	4.0E	740.4
	8.0E	868.3	15.0E	913.1	8.0E	1000.0				
35.0	10.0M	3.2	20.0M	30.0	10.0M	65.0	7.0M	95.4	8.0E	109.7
	4.0E	264.5	8.0E	285.3	4.0E	599.4	15.0E	918.8	4.0E	926.6
40.0	10.0M	3.2	20.0M	30.0	10.0M	65.0	7.0M	95.4	8.0E	134.4
	4.0E	250.1	8.0E	324.5	4.0E	542.2	15.0E	865.9	4.0E	923.6
	2.0E	953.6	8.0E	978.8	15.0E	1000.0				
45.0	10.0M	3.2	20.0M	30.0	10.0M	65.0	7.0M	95.4	8.0E	167.0
	4.0E	235.2	8.0E	383.1	4.0E	442.4	15.0E	766.5	8.0E	797.0
	15.0E	830.3	4.0E	884.2	15.0E	952.0	2.0E	1000.0		
49.9	10.0M	3.2	20.0M	30.0	10.0M	65.0	7.0M	95.4	8.0E	342.7
	15.0E	650.5	8.0E	803.6	15.0E	876.7	4.0E	942.1	15.0E	1002.6
50.0	10.0M	3.2	20.0M	30.0	10.0M	65.0	7.0M	95.4	8.0E	342.6
	15.0E	650.0	8.0E	801.0	15.0E	876.7	4.0E	942.7	15.0E	999.7

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE AUTHORIZED (CP) DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 2 of 4)

Ground Conductivity Data:										
Region conductivity in mS/m followed by distance in km										
Azimuth	to the end of region. E - map data; M - measurement data.									
50.1	20.0M	80.9	15.0M	110.0	10.0M	144.2	8.0E	342.4	15.0E	649.5
	8.0E	798.4	15.0E	876.7	4.0E	943.3	15.0E	996.8	8.0E	1000.0
55.0	20.0M	80.9	15.0M	110.0	10.0M	144.2	8.0E	334.2	15.0E	538.8
	30.0E	651.2	8.0E	750.7	15.0E	886.0	4.0E	924.9	8.0E	941.1
	15.0E	972.9	8.0E	1000.0						
60.0	20.0M	80.9	15.0M	110.0	10.0M	144.2	8.0E	324.6	15.0E	500.1
	8.0E	546.8	30.0E	669.1	8.0E	779.1	15.0E	882.0	4.0E	942.2
65.0	20.0M	80.9	15.0M	110.0	10.0M	144.2	8.0E	315.3	15.0E	459.7
	8.0E	631.2	15.0E	850.7	4.0E	1000.0				
70.0	20.0M	80.9	15.0M	110.0	10.0M	144.2	8.0E	309.7	15.0E	438.0
	8.0E	600.4	15.0E	694.1	8.0E	812.9	15.0E	907.3	4.0E	1000.0
70.0	20.0M	80.9	15.0M	110.0	10.0M	144.2	8.0E	309.7	15.0E	438.0
	8.0E	600.4	15.0E	694.1	8.0E	812.9	15.0E	907.3	4.0E	1000.0
70.1	8.0E	309.6	15.0E	437.7	8.0E	600.6	15.0E	694.2	8.0E	814.1
75.0	8.0E	311.1	15.0E	429.2	8.0E	617.8	15.0E	704.7	8.0E	867.8
80.0	8.0E	315.4	15.0E	427.7	8.0E	635.7	15.0E	723.0	8.0E	771.3
	15.0E	791.8	8.0E	928.9	15.0E	1000.0				
85.0	8.0E	320.6	15.0E	435.1	8.0E	661.1	15.0E	816.5	8.0E	976.1
90.0	8.0E	327.2	15.0E	446.9	8.0E	743.6	15.0E	761.8	4.0E	805.5
	15.0E	840.7	4.0E	863.9	8.0E	980.6	15.0E	1000.0		
95.0	8.0E	335.0	15.0E	490.0	8.0E	780.3	4.0E	911.6	8.0E	989.7
100.0	8.0E	344.8	15.0E	584.9	8.0E	634.1	15.0E	639.3	8.0E	866.2
	4.0E	936.3	8.0E	962.0	4.0E	1000.0				
105.0	8.0E	158.5	4.0E	162.3	8.0E	291.6	15.0E	758.0	8.0E	950.9
110.0	8.0E	87.1	4.0E	171.8	2.0E	217.0	8.0E	257.4	15.0E	799.8
115.0	8.0E	51.0	4.0E	170.3	2.0E	237.7	15.0E	468.3	8.0E	543.3
	15.0E	721.9	8.0E	815.1	4.0E	955.4	2.0E	1004.3		
120.0	8.0E	28.7	4.0E	172.6	2.0E	228.2	15.0E	420.7	8.0E	592.3
	15.0E	595.9	4.0E	964.0	2.0E	1000.0				
125.0	8.0E	17.3	4.0E	226.9	15.0E	375.5	3.0E	398.0	15.0E	405.7
130.0	8.0E	11.1	4.0E	278.7	15.0E	342.6	3.0E	408.1	4.0E	531.1
135.0	8.0E	8.2	4.0E	98.0	8.0E	161.0	4.0E	317.8	3.0E	470.0
	5000.0E	807.7	4.0E	822.9	5000.0E	834.7	4.0E	1000.0		
140.0	8.0E	6.5	4.0E	84.9	8.0E	218.0	4.0E	298.7	3.0E	505.3
145.0	8.0E	5.4	4.0E	77.0	8.0E	281.2	4.0E	283.8	3.0E	649.3
	5000.0E	651.0	3.0E	1000.0						
150.0	8.0E	4.7	4.0E	70.9	8.0E	147.1	15.0E	254.8	8.0E	272.7
	3.0E	708.0	5000.0E	713.6	3.0E	728.4	5000.0E	815.8	3.0E	822.3
155.0	8.0E	4.2	4.0E	65.5	8.0E	111.5	15.0E	161.8	5000.0E	225.2
	15.0E	249.1	5000.0E	256.2	15.0E	263.5	3.0E	296.1	5000.0E	309.0
	3.0E	328.5	5000.0E	360.8	3.0E	397.3	5000.0E	446.5	3.0E	453.5
	5000.0E	509.3	3.0E	517.8	5000.0E	568.9	3.0E	576.6	5000.0E	589.1
	3.0E	603.0	5000.0E	836.7	3.0E	881.4	5000.0E	889.7	3.0E	911.4
160.0	8.0E	3.8	4.0E	60.6	8.0E	95.6	15.0E	136.1	5000.0E	1000.0

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE AUTHORIZED (CP) DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 3 of 4)

Ground Conductivity Data:										
Region conductivity in mS/m followed by distance in km										
Azimuth	to the end of region. E - map data; M - measurement data.									
165.0	8.0E	3.5	4.0E	56.8	8.0E	84.2	15.0E	121.0	5000.0E	1000.0
170.0	8.0E	3.2	4.0E	53.9	8.0E	75.8	15.0E	106.1	5000.0E	1000.0
175.0	8.0E	3.1	4.0E	51.6	8.0E	69.4	15.0E	102.3	5000.0E	1000.0
180.0	8.0E	2.9	4.0E	49.8	8.0E	67.1	15.0E	106.6	5000.0E	1000.0
185.0	8.0E	2.8	4.0E	44.8	8.0E	67.1	15.0E	95.3	5000.0E	95.6
	15.0E	103.7	5000.0E	1000.0						
190.0	8.0E	2.7	4.0E	29.6	8.0E	67.6	15.0E	81.2	5000.0E	1000.0
195.0	8.0E	2.7	4.0E	28.7	8.0E	68.6	15.0E	77.2	5000.0E	1000.0
200.0	8.0E	2.6	4.0E	29.2	8.0E	72.8	15.0E	75.9	5000.0E	1000.0
205.0	8.0E	2.6	4.0E	30.4	8.0E	78.5	5000.0E	1000.0		
210.0	8.0E	2.6	4.0E	32.0	8.0E	84.2	5000.0E	1000.0		
215.0	8.0E	2.6	4.0E	34.0	8.0E	88.2	5000.0E	1000.0		
220.0	8.0E	2.7	4.0E	36.6	8.0E	90.2	5000.0E	1000.0		
225.0	8.0E	2.8	4.0E	40.0	8.0E	93.0	5000.0E	1000.0		
230.0	8.0E	2.9	4.0E	44.4	8.0E	98.7	5000.0E	1000.0		
235.0	8.0E	3.0	4.0E	50.4	8.0E	101.7	5000.0E	1000.0		
240.0	8.0E	3.1	4.0E	58.8	8.0E	101.3	5000.0E	1000.0		
245.0	8.0E	3.3	4.0E	71.1	8.0E	103.2	5000.0E	1000.0		
249.9	8.0E	3.6	4.0E	90.3	8.0E	108.7	5000.0E	1000.0		
250.0	8.0M	9.1	1.0M	89.3	0.5M	99.3	8.0E	108.8	5000.0E	1000.0
250.0	8.0M	9.1	1.0M	89.3	0.5M	99.3	8.0E	108.8	5000.0E	1000.0
255.0	8.0M	9.1	1.0M	89.3	0.5M	99.3	4.0E	117.4	5000.0E	1000.0
260.0	8.0M	9.1	1.0M	89.3	0.5M	99.3	4.0E	136.1	8.0E	153.3
	5000.0E	1000.0								
265.0	8.0M	9.1	1.0M	89.3	0.5M	99.3	4.0E	143.5	8.0E	203.1
	5000.0E	1000.0								
269.9	8.0M	9.1	1.0M	89.3	0.5M	99.3	4.0E	152.5	8.0E	212.1
	5000.0E	1000.0								
270.0	8.0M	9.1	1.0M	89.3	0.5M	99.3	4.0E	152.7	8.0E	211.9
	5000.0E	1000.0								
270.0	8.0M	9.1	1.0M	89.3	0.5M	99.3	4.0E	152.7	8.0E	211.9
	5000.0E	1000.0								
270.1	5.0M	5.2	6.0M	13.3	1.0M	54.5	0.5M	109.3	4.0E	152.9
	8.0E	211.7	5000.0E	1000.0						
275.0	5.0M	5.2	6.0M	13.3	1.0M	54.5	0.5M	109.3	4.0E	162.4
	8.0E	212.2	5000.0E	1000.0						
280.0	5.0M	5.2	6.0M	13.3	1.0M	54.5	0.5M	109.3	4.0E	174.8
	8.0E	216.4	5000.0E	1000.0						
285.0	5.0M	5.2	6.0M	13.3	1.0M	54.5	0.5M	109.3	4.0E	183.8
	8.0E	239.7	5000.0E	1000.0						
289.9	5.0M	5.2	6.0M	13.3	1.0M	54.5	0.5M	109.3	8.0E	120.3
	4.0E	181.6	8.0E	248.3	5000.0E	1000.0				
290.0	5.0M	5.2	6.0M	13.3	1.0M	54.5	0.5M	109.3	8.0E	121.9
	4.0E	181.5	8.0E	248.7	5000.0E	1000.0				

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE AUTHORIZED (CP) DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
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Ground Conductivity Data:										
Region conductivity in mS/m followed by distance in km										
Azimuth	to the end of region. E - map data; M - measurement data.									
290.1	7.0M	15.0	4.0M	31.0	2.0M	129.0	4.0E	181.2	8.0E	249.1
	5000.0E	258.0	8.0E	261.8	5000.0E	1000.0				
295.0	7.0M	15.0	4.0M	31.0	2.0M	129.0	8.0E	307.4	5000.0E	1000.0
300.0	7.0M	15.0	4.0M	31.0	2.0M	129.0	8.0E	341.6	15.0E	371.3
305.0	7.0M	15.0	4.0M	31.0	2.0M	129.0	15.0E	138.8	8.0E	326.0
	15.0E	386.7	5000.0E	1000.0						
309.9	7.0M	15.0	4.0M	31.0	2.0M	129.0	15.0E	155.4	8.0E	474.3
310.0	7.0M	15.0	4.0M	31.0	2.0M	129.0	15.0E	155.6	8.0E	475.2
310.0	7.0M	15.0	4.0M	31.0	2.0M	129.0	15.0E	155.6	8.0E	475.2
310.1	6.0M	1.9	10.0M	21.8	1.0M	76.0	2.0M	144.6	15.0E	155.9
	8.0E	476.5	5000.0E	1000.0						
315.0	6.0M	1.9	10.0M	21.8	1.0M	76.0	2.0M	144.6	15.0E	168.3
	8.0E	422.3	15.0E	485.5	30.0E	501.4	5000.0E	517.1	30.0E	590.6
320.0	6.0M	1.9	10.0M	21.8	1.0M	76.0	2.0M	144.6	15.0E	182.1
	8.0E	340.7	15.0E	495.4	30.0E	513.9	8.0E	673.3	4.0E	733.2
325.0	6.0M	1.9	10.0M	21.8	1.0M	76.0	2.0M	144.6	8.0E	147.1
	15.0E	197.6	8.0E	316.6	15.0E	464.9	30.0E	605.5	8.0E	663.3
329.9	6.0M	1.9	10.0M	21.8	1.0M	76.0	2.0M	144.6	8.0E	163.8
	15.0E	217.1	8.0E	291.3	15.0E	410.8	8.0E	438.5	15.0E	610.4
330.0	6.0M	1.9	10.0M	21.8	1.0M	76.0	2.0M	144.6	8.0E	164.1
	15.0E	217.5	8.0E	290.8	15.0E	405.7	8.0E	444.0	15.0E	613.3
	30.0E	666.1	8.0E	740.9	4.0E	1000.0				
330.0	6.0M	1.9	10.0M	21.8	1.0M	76.0	2.0M	144.6	8.0E	164.1
	15.0E	217.5	8.0E	290.8	15.0E	405.7	8.0E	444.0	15.0E	613.3
330.1	10.0M	27.0	1.5M	60.0	0.1M	99.1	8.0E	164.4	15.0E	217.9
	8.0E	290.2	15.0E	400.8	8.0E	449.7	15.0E	616.2	30.0E	665.7
335.0	10.0M	27.0	1.5M	60.0	0.1M	99.1	8.0E	178.3	15.0E	240.0
	8.0E	670.5	4.0E	685.2	8.0E	739.9	4.0E	1000.0		
340.0	10.0M	27.0	1.5M	60.0	0.1M	99.1	4.0E	101.3	8.0E	178.4
	2.0E	193.6	15.0E	223.9	2.0E	249.7	8.0E	318.7	2.0E	498.7
	8.0E	650.9	4.0E	851.3	8.0E	858.5	4.0E	1000.0		
345.0	10.0M	27.0	1.5M	60.0	0.1M	99.1	4.0E	150.2	2.0E	485.7
	8.0E	725.3	4.0E	870.0	8.0E	903.4	4.0E	1000.0		
349.9	10.0M	27.0	1.5M	60.0	0.1M	99.1	4.0E	149.8	2.0E	345.0
	4.0E	465.9	8.0E	521.3	4.0E	607.7	8.0E	778.0	4.0E	1000.0
350.0	10.0M	3.7	20.0M	16.4	15.0M	31.2	2.0M	71.7	0.5M	108.0
	4.0E	149.8	2.0E	343.6	4.0E	465.9	8.0E	520.7	4.0E	609.4
	8.0E	779.6	4.0E	1000.0						
350.0	10.0M	3.7	20.0M	16.4	15.0M	31.2	2.0M	71.7	0.5M	108.0
	4.0E	149.8	2.0E	343.6	4.0E	465.9	8.0E	520.7	4.0E	609.4
	8.0E	779.6	4.0E	1000.0						
350.1	10.0M	3.7	20.0M	16.4	15.0M	31.2	2.0M	71.7	0.5M	108.0
	4.0E	149.8	2.0E	342.2	4.0E	466.0	8.0E	520.0	4.0E	611.1
355.0	10.0M	3.7	20.0M	16.4	15.0M	31.2	2.0M	71.7	0.5M	108.0
	4.0E	150.9	2.0E	290.0	4.0E	670.2	8.0E	799.7	4.0E	1000.0

Engineering Exhibit of KGDP, Oildale, California

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE AUTHORIZED (CP) DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 1 of 3)

SIMI VALLEY, CA

Call: KIRN cp

Coordinates: N 34 41 9 W 118 17 26

Frequency: 670 kHz Number of contours: 2

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		.500	.250
0.0	133.86	38.24	51.91
5.0	133.47	38.19	51.84
9.9	120.62	36.49	49.61
10.0	120.24	36.44	49.54
10.1	119.87	72.41	82.79
15.0	98.62	65.68	80.00
20.0	79.85	60.00	80.00
25.0	78.99	60.00	80.00
29.9	94.16	64.12	80.00
30.0	94.53	64.25	80.00
30.0	94.53	64.25	80.00
30.1	94.89	65.00	89.93
35.0	110.25	69.47	96.25
40.0	115.46	71.09	98.41
45.0	107.19	68.49	95.00
49.9	89.16	65.00	87.44
50.0	88.74	65.00	87.25
50.0	88.74	65.00	87.25
50.1	88.33	86.32	110.00
55.0	69.88	80.90	110.00
60.0	64.30	77.81	106.88
65.0	72.36	80.90	110.00
70.0	79.07	80.90	110.00
70.0	79.07	80.90	110.00
70.1	79.11	62.31	88.66
75.0	75.01	60.53	86.44
80.0	63.84	55.29	79.89
85.0	69.16	57.85	83.10
90.0	106.29	72.85	101.63
95.0	155.20	87.86	119.90
100.0	195.16	97.76	131.90
105.0	209.27	100.92	135.69
110.0	182.76	92.12	114.26
115.0	107.45	65.22	83.83
120.0	88.87	53.20	70.70

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE AUTHORIZED (CP) DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 2 of 3)

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		.500	.250
125.0	295.36	82.87	108.94
130.0	593.40	107.56	140.88
135.0	966.62	142.10	186.24
140.0	1405.03	174.55	228.24
145.0	1894.45	201.47	261.10
150.0	2416.31	249.38	303.50
155.0	2948.46	309.05	380.52
160.0	3466.36	524.68	678.76
165.0	3944.49	593.73	747.82
170.0	4357.94	652.51	806.88
175.0	4683.93	685.94	840.89
180.0	4903.33	696.03	851.33
185.0	5002.06	715.42	870.88
190.0	4972.22	776.78	932.20
195.0	4812.97	775.68	930.84
200.0	4530.99	758.54	913.22
205.0	4140.33	726.30	880.24
210.0	3661.76	680.72	835.15
215.0	3121.39	631.35	784.31
220.0	2548.75	576.18	728.67
225.0	1974.46	507.04	658.04
230.0	1427.65	414.13	563.00
235.0	933.70	305.56	451.69
240.0	512.58	168.94	309.09
245.0	180.95	64.85	94.94
249.9	98.32	49.19	67.27
250.0	101.57	23.57	32.53
250.0	101.57	23.57	32.53
255.0	252.57	35.96	49.39
260.0	338.04	41.10	56.41
265.0	361.51	42.38	58.16
269.9	338.99	41.15	56.48
270.0	338.18	41.11	56.42
270.0	338.18	41.11	56.42
270.1	337.35	41.06	54.50
275.0	284.84	38.00	52.17
280.0	217.78	33.59	46.15
285.0	151.59	28.42	39.10
289.9	99.79	23.38	32.27
290.0	98.94	23.28	32.14
290.0	98.94	23.28	32.14
290.1	98.10	33.20	45.32
295.0	69.71	31.00	38.95
300.0	62.54	31.00	37.10

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE AUTHORIZED (CP) DAYTIME OPERATION OF
KIRN, SIMI VALLEY, CALIFORNIA
OCTOBER 2004
 (Page 3 of 3)

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		.500	.250
309.9	62.36	31.00	37.05
310.0	62.35	31.00	37.05
310.0	62.35	31.00	37.05
310.1	62.33	21.80	25.95
315.0	62.37	21.80	25.95
320.0	64.64	21.80	26.39
325.0	67.36	21.80	26.90
329.9	67.74	21.80	26.97
330.0	67.72	21.80	26.97
330.0	67.72	21.80	26.97
330.1	67.69	27.00	32.91
335.0	66.35	27.00	32.61
340.0	69.14	27.00	33.23
345.0	81.94	27.00	35.88
349.9	101.79	28.88	39.54
350.0	102.22	33.84	46.15
350.0	102.22	33.84	46.15
350.1	102.65	33.91	46.23
355.0	121.97	36.68	49.85

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KFI, LOS ANGELES, CALIFORNIA
DECEMBER 2003

(Page 1 of 4)

Call: KFI

LOS ANGELES, CA

Coordinates: N 33 52 47 W 118 0 47

Frequency: 640 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data:							
		Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
.0	2651.51	15.0E	5.2	8.0E	30.9	4.0E	75.0	8.0E	155.0
		4.0E	252.1	2.0E	287.0	4.0E	766.5	8.0E	877.6
		4.0E	1200.0						
5.0	2651.51	15.0E	4.9	8.0E	30.1	4.0E	72.7	8.0E	165.9
		4.0E	814.4	8.0E	854.9	4.0E	1076.5	8.0E	1136.8
		4.0E	1200.0						
10.0	2651.51	15.0E	4.7	8.0E	29.6	4.0E	71.1	8.0E	178.2
		4.0E	1074.5	8.0E	1153.5	4.0E	1200.0		
15.0	2651.51	15.0E	4.5	8.0E	29.6	4.0E	70.9	8.0E	192.5
		4.0E	933.1	8.0E	1014.9	4.0E	1017.3	8.0E	1157.4
		4.0E	1200.0						
20.0	2651.51	15.0E	4.3	8.0E	29.9	4.0E	71.3	8.0E	211.0
		4.0E	861.8	8.0E	1189.8	4.0E	1200.0		
25.0	2651.51	15.0E	4.2	8.0E	30.4	4.0E	72.3	8.0E	230.6
		4.0E	317.0	8.0E	361.0	4.0E	810.7	8.0E	1200.0
30.0	2651.51	15.0E	4.2	8.0E	31.2	4.0E	73.9	8.0E	256.6
		4.0E	283.8	8.0E	395.4	4.0E	642.6	15.0E	993.4
		8.0E	1188.8	2.0E	1200.0				
35.0	2651.51	15.0E	4.1	8.0E	32.3	4.0E	76.1	8.0E	403.7
		15.0E	454.9	4.0E	559.3	15.0E	925.3	4.0E	987.1
		2.0E	999.7	8.0E	1060.0	15.0E	1200.0		
40.0	2651.51	15.0E	4.1	8.0E	33.7	4.0E	79.1	8.0E	380.5
		15.0E	773.8	8.0E	858.3	15.0E	878.0	4.0E	929.6
		15.0E	982.4	2.0E	1066.7	8.0E	1166.4	15.0E	1200.0
45.0	2651.51	15.0E	4.2	8.0E	35.6	4.0E	83.7	8.0E	360.9
		15.0E	584.1	30.0E	685.5	8.0E	819.9	15.0E	918.3
		4.0E	983.1	15.0E	1058.3	8.0E	1097.4	2.0E	1122.0
		15.0E	1200.0						
50.0	2651.51	15.0E	4.2	8.0E	38.0	4.0E	89.7	8.0E	341.1
		15.0E	535.0	8.0E	575.1	30.0E	689.8	8.0E	797.7
		15.0E	926.4	4.0E	958.5	8.0E	976.7	15.0E	985.6
		8.0E	1172.3	2.0E	1200.0				
55.0	2651.51	15.0E	4.3	8.0E	41.0	4.0E	97.6	8.0E	326.9
		15.0E	474.6	8.0E	662.3	30.0E	704.8	8.0E	719.9
		15.0E	766.3	8.0E	798.3	15.0E	894.9	4.0E	970.1
		15.0E	1052.4	8.0E	1107.3	2.0E	1200.0		
60.0	2651.51	15.0E	4.4	8.0E	45.0	4.0E	107.8	8.0E	322.0
		15.0E	446.8	8.0E	616.9	15.0E	710.0	8.0E	777.7
		15.0E	880.2	4.0E	1039.3	2.0E	1192.4	8.0E	1200.0

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KFI, LOS ANGELES, CALIFORNIA
DECEMBER 2003

(Page 2 of 4)

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data:							
		Region conductivity in mS/m followed by distance in km to the end of region. E – map data; M – measurement data.							
65.0	2651.51	15.0E	4.6	8.0E	47.9	4.0E	121.4	8.0E	318.1
		15.0E	433.0	8.0E	619.0	15.0E	706.6	8.0E	836.8
		15.0E	923.1	4.0E	1043.5	2.0E	1130.6	4.0E	1200.0
70.0	2651.51	15.0E	4.9	8.0E	51.3	4.0E	139.0	8.0E	316.0
		15.0E	426.9	8.0E	628.9	15.0E	713.1	8.0E	876.8
		15.0E	992.8	4.0E	1113.8	2.0E	1200.0		
75.0	2651.51	15.0E	5.2	8.0E	55.6	4.0E	144.0	2.0E	149.3
		8.0E	314.1	15.0E	428.1	8.0E	641.7	15.0E	727.7
		8.0E	753.0	15.0E	792.2	8.0E	937.2	15.0E	1088.9
80.0	2651.51	4.0E	1133.4	2.0E	1194.0	15.0E	1200.0		
		15.0E	5.5	8.0E	61.2	4.0E	134.5	2.0E	161.8
		8.0E	314.1	15.0E	435.8	8.0E	677.3	15.0E	810.2
85.0	2651.51	8.0E	962.3	15.0E	1183.9	8.0E	1200.0		
		15.0E	6.0	8.0E	66.7	4.0E	125.6	2.0E	178.0
		8.0E	314.2	15.0E	469.5	8.0E	731.9	4.0E	859.0
90.0	2651.51	8.0E	959.0	15.0E	1150.2	8.0E	1200.0		
		15.0E	6.7	8.0E	70.8	4.0E	123.9	2.0E	199.5
		8.0E	213.8	15.0E	541.5	8.0E	767.5	4.0E	882.0
95.0	2651.51	8.0E	960.2	4.0E	1200.0				
		15.0E	7.6	8.0E	76.0	4.0E	130.1	2.0E	182.5
		15.0E	648.2	8.0E	838.7	4.0E	894.4	8.0E	924.9
100.0	2651.51	4.0E	1162.1	8.0E	1200.0				
		15.0E	8.8	8.0E	82.8	4.0E	146.5	2.0E	170.1
		15.0E	728.9	8.0E	906.5	4.0E	1126.9	8.0E	1200.0
105.0	2651.51	15.0E	10.6	8.0E	90.7	4.0E	167.2	15.0E	416.3
		8.0E	475.2	15.0E	736.8	8.0E	934.8	4.0E	1200.0
110.0	2651.51	15.0E	13.4	8.0E	98.7	4.0E	184.9	15.0E	357.9
		8.0E	508.7	15.0E	650.5	8.0E	753.1	4.0E	898.3
		2.0E	935.4	4.0E	1200.0				
115.0	2651.51	15.0E	18.3	8.0E	109.1	4.0E	205.0	15.0E	301.7
		3.0E	330.9	15.0E	338.8	8.0E	402.2	4.0E	895.2
		2.0E	1200.0						
120.0	2651.51	15.0E	29.5	8.0E	123.0	4.0E	244.1	15.0E	264.3
		3.0E	332.1	4.0E	1200.0				
125.0	2651.51	15.0E	47.2	8.0E	140.7	4.0E	237.5	3.0E	351.0
		4.0E	446.7	5000.0E	570.9	4.0E	1200.0		
130.0	2651.51	15.0E	70.5	8.0E	160.1	4.0E	217.3	3.0E	393.1
		5000.0E	665.5	4.0E	1200.0				
135.0	2651.51	15.0E	99.7	8.0E	187.2	4.0E	201.7	3.0E	421.9
		5000.0E	1200.0						
140.0	2651.51	15.0E	139.7	8.0E	189.7	3.0E	502.7	5000.0E	1200.0
		15.0E	63.3	5000.0E	120.9	15.0E	180.3	3.0E	1200.0
150.0	2651.51	15.0E	47.7	5000.0E	144.6	15.0E	153.2	5000.0E	163.9
		15.0E	172.5	3.0E	256.0	5000.0E	259.6	3.0E	1200.0
		15.0E	37.0	5000.0E	1200.0				

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KFI, LOS ANGELES, CALIFORNIA
DECEMBER 2003

(Page 3 of 4)

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data:							
		Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
160.0	2651.51	15.0E	33.6	5000.0E	1200.0				
165.0	2651.51	15.0E	30.5	5000.0E	1200.0				
170.0	2651.51	15.0E	26.8	5000.0E	1200.0				
175.0	2651.51	15.0E	24.0	5000.0E	1200.0				
180.0	2651.51	15.0E	21.9	5000.0E	1200.0				
185.0	2651.51	15.0E	20.3	5000.0E	1200.0				
190.0	2651.51	15.0E	19.0	5000.0E	1200.0				
195.0	2651.51	15.0E	18.0	5000.0E	1200.0				
200.0	2651.51	15.0E	17.3	5000.0E	1200.0				
205.0	2651.51	15.0E	16.7	5000.0E	1200.0				
210.0	2651.51	15.0E	16.3	5000.0E	1200.0				
215.0	2651.51	15.0E	16.2	5000.0E	1200.0				
220.0	2651.51	15.0E	17.0	5000.0E	1200.0				
225.0	2651.51	15.0E	18.1	5000.0E	1200.0				
230.0	2651.51	15.0E	19.5	5000.0E	1200.0				
235.0	2651.51	15.0E	21.4	5000.0E	24.5	15.0E	30.2	5000.0E	1200.0
240.0	2651.51	15.0E	32.3	5000.0E	1200.0				
245.0	2651.51	15.0E	34.9	5000.0E	1200.0				
250.0	2651.51	15.0E	38.2	5000.0E	1200.0				
255.0	2651.51	15.0E	38.1	5000.0E	1200.0				
260.0	2651.51	15.0E	34.8	5000.0E	1200.0				
265.0	2651.51	15.0E	34.9	5000.0E	1200.0				
270.0	2651.51	15.0E	36.0	5000.0E	1200.0				
275.0	2651.51	15.0E	37.3	5000.0E	1200.0				
280.0	2651.51	15.0E	39.2	5000.0E	1200.0				
285.0	2651.51	15.0E	41.5	5000.0E	67.1	8.0E	106.6	5000.0E	1200.0
290.0	2651.51	15.0E	57.7	8.0E	121.3	5000.0E	181.2	8.0E	254.3
		5000.0E	1200.0						
295.0	2651.51	15.0E	52.7	8.0E	137.5	4.0E	187.2	8.0E	260.7
		5000.0E	1200.0						
300.0	2651.51	15.0E	46.5	8.0E	118.3	4.0E	220.5	8.0E	274.7
		5000.0E	1200.0						
305.0	2651.51	15.0E	39.8	8.0E	104.5	4.0E	246.9	8.0E	362.1
		5000.0E	1200.0						
310.0	2651.51	15.0E	35.1	8.0E	94.2	4.0E	243.1	8.0E	412.2
		15.0E	456.4	5000.0E	1200.0				
315.0	2651.51	15.0E	31.5	8.0E	86.3	4.0E	173.8	8.0E	418.4
		15.0E	477.0	5000.0E	495.0	8.0E	550.1	5000.0E	1200.0
320.0	2651.51	15.0E	19.8	8.0E	80.3	4.0E	153.2	8.0E	511.4
		15.0E	579.2	30.0E	588.0	5000.0E	593.2	30.0E	601.2
		5000.0E	606.3	30.0E	764.7	5000.0E	1200.0		
325.0	2651.51	15.0E	14.1	8.0E	75.5	4.0E	144.0	8.0E	193.1
		15.0E	251.2	8.0E	429.6	15.0E	571.0	30.0E	615.5
		8.0E	753.3	4.0E	934.0	5000.0E	1200.0		

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KFI, LOS ANGELES, CALIFORNIA
DECEMBER 2003

(Page 4 of 4)

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data: Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
330.0	2651.51	15.0E	11.0	8.0E	44.6	4.0E	60.9	8.0E	71.8
		4.0E	147.5	8.0E	207.3	15.0E	279.7	8.0E	403.2
		15.0E	589.8	30.0E	739.9	8.0E	781.2	4.0E	1022.1
		5000.0E	1027.9	4.0E	1035.7	5000.0E	1200.0		
		15.0E	9.1	8.0E	40.7	4.0E	112.4	8.0E	113.5
335.0	2651.51	4.0E	160.0	8.0E	254.2	15.0E	313.1	8.0E	372.8
		15.0E	422.6	8.0E	688.0	15.0E	709.8	8.0E	840.5
		4.0E	1197.6	5000.0E	1200.0				
		15.0E	7.8	8.0E	37.7	4.0E	96.2	8.0E	124.8
340.0	2651.51	4.0E	174.1	8.0E	278.1	15.0E	336.6	8.0E	444.3
		2.0E	589.6	8.0E	743.3	4.0E	1200.0		
		15.0E	6.8	8.0E	35.3	4.0E	88.5	8.0E	131.1
345.0	2651.51	4.0E	243.2	2.0E	578.7	8.0E	817.0	4.0E	961.7
		8.0E	997.3	4.0E	1200.0				
		15.0E	6.1	8.0E	33.4	4.0E	82.4	8.0E	139.2
350.0	2651.51	4.0E	242.8	2.0E	416.2	4.0E	558.9	8.0E	607.7
		4.0E	714.1	8.0E	880.9	4.0E	1200.0		
		15.0E	5.6	8.0E	32.0	4.0E	78.0	8.0E	146.4
355.0	2651.51	4.0E	244.5	2.0E	354.4	4.0E	771.5	8.0E	888.5
		4.0E	1200.0						

Engineering Exhibit of KGDP, Oildale, California

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE LICENSED DAYTIME OPERATION OF
KFI, LOS ANGELES, CALIFORNIA
DECEMBER 2003
 (Page 1 of 2)

LOS ANGELES, CA

Call: KFI

Coordinates: N 33 52 47 W 118 0 47

Frequency: 640 kHz Number of contours: 1

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		5.000	
-----	-----	-----	
.0	2651.51	93.99	
5.0	2651.51	94.86	
10.0	2651.51	95.44	
15.0	2651.51	95.49	
20.0	2651.51	95.40	
25.0	2651.51	95.14	
30.0	2651.51	94.66	
35.0	2651.51	93.96	
40.0	2651.51	93.08	
45.0	2651.51	91.54	
50.0	2651.51	89.60	
55.0	2651.51	90.63	
60.0	2651.51	91.99	
65.0	2651.51	93.02	
70.0	2651.51	94.19	
75.0	2651.51	95.73	
80.0	2651.51	97.75	
85.0	2651.51	99.74	
90.0	2651.51	101.25	
95.0	2651.51	103.18	
100.0	2651.51	105.69	
105.0	2651.51	108.67	
110.0	2651.51	111.76	
115.0	2651.51	115.92	
120.0	2651.51	121.70	
125.0	2651.51	125.91	
130.0	2651.51	132.40	
135.0	2651.51	141.29	
140.0	2651.51	153.92	
145.0	2651.51	184.18	
150.0	2651.51	188.60	
155.0	2651.51	304.00	
160.0	2651.51	305.93	
165.0	2651.51	307.46	
170.0	2651.51	309.17	
175.0	2651.51	310.29	

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE LICENSED DAYTIME OPERATION OF
KFI, LOS ANGELES, CALIFORNIA
DECEMBER 2003
 (Page 2 of 2)

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers :	
		Contour levels in mV/m.	
		5.000	
-----	-----	-----	
180.0	2651.51	311.06	
185.0	2651.51	311.60	
190.0	2651.51	312.00	
195.0	2651.51	312.29	
200.0	2651.51	312.51	
205.0	2651.51	312.67	
210.0	2651.51	312.78	
215.0	2651.51	312.80	
220.0	2651.51	312.57	
225.0	2651.51	312.26	
230.0	2651.51	311.84	
235.0	2651.51	308.83	
240.0	2651.51	306.59	
245.0	2651.51	305.19	
250.0	2651.51	303.31	
255.0	2651.51	303.35	
260.0	2651.51	305.27	
265.0	2651.51	305.19	
270.0	2651.51	304.61	
275.0	2651.51	303.81	
280.0	2651.51	302.72	
285.0	2651.51	219.78	
290.0	2651.51	147.24	
295.0	2651.51	127.40	
300.0	2651.51	123.14	
305.0	2651.51	117.21	
310.0	2651.51	112.79	
315.0	2651.51	109.47	
320.0	2651.51	105.77	
325.0	2651.51	103.49	
330.0	2651.51	96.20	
335.0	2651.51	90.78	
340.0	2651.51	89.68	
345.0	2651.51	89.03	
350.0	2651.51	91.26	
355.0	2651.51	92.93	

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KIDD, MONTEREY, CALIFORNIA
DECEMBER 2003
 (Page 1 of 2)

Call: KIDD
 MONTEREY, CA
 Coordinates: N 36 41 28 W 121 48 0
 Frequency: 630 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data:							
		Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
.0	156.91	15.0E	6.5	5000.0E	16.0	15.0E	20.0	8.0E	76.0
		15.0E	149.6	30.0E	278.7	15.0E	331.5	8.0E	435.4
		4.0E	571.7	8.0E	605.7	4.0E	616.8	8.0E	659.1
		4.0E	1108.0						
10.0	157.21	15.0E	20.7	8.0E	71.4	15.0E	149.4	30.0E	198.4
		15.0E	267.0	8.0E	388.2	4.0E	962.1	15.0E	1009.3
		4.0E	1108.0						
20.0	160.80	15.0E	22.1	8.0E	75.5	15.0E	209.4	8.0E	614.1
		4.0E	1108.0						
30.0	160.86	15.0E	22.7	8.0E	82.6	15.0E	175.9	8.0E	243.4
		2.0E	288.8	8.0E	375.0	4.0E	539.4	8.0E	658.6
		4.0E	900.1	8.0E	967.6	4.0E	1108.0		
40.0	159.98	15.0E	22.3	8.0E	85.9	15.0E	164.6	8.0E	213.2
		2.0E	295.5	4.0E	311.2	8.0E	372.8	4.0E	839.1
		8.0E	877.4	4.0E	885.1	8.0E	1060.1	4.0E	1108.0
50.0	154.57	15.0E	22.6	8.0E	84.6	15.0E	163.4	8.0E	208.3
		2.0E	275.5	4.0E	799.5	8.0E	1108.0		
60.0	162.93	15.0E	23.6	8.0E	85.6	15.0E	168.2	8.0E	210.1
		2.0E	273.5	4.0E	814.1	8.0E	820.2	15.0E	973.6
		4.0E	1024.6	2.0E	1071.5	15.0E	1108.0		
70.0	164.49	15.0E	24.5	8.0E	104.9	15.0E	174.8	8.0E	216.9
		2.0E	281.7	4.0E	692.7	15.0E	869.6	8.0E	977.9
		15.0E	1043.6	4.0E	1108.0				
80.0	186.56	15.0E	26.0	8.0E	169.1	15.0E	192.6	8.0E	230.6
		2.0E	304.1	4.0E	633.3	15.0E	757.7	30.0E	882.1
		8.0E	998.7	15.0E	1065.7	4.0E	1108.0		
90.0	216.82	15.0E	28.5	8.0E	215.2	15.0E	229.1	2.0E	333.2
		4.0E	466.7	8.0E	580.5	15.0E	731.7	8.0E	883.5
		15.0E	988.7	8.0E	1108.0				
100.0	252.53	15.0E	32.7	8.0E	207.8	15.0E	249.9	2.0E	338.6
		4.0E	470.4	8.0E	619.1	15.0E	751.0	8.0E	1071.4
		15.0E	1091.8	4.0E	1108.0				
110.0	290.21	15.0E	39.8	8.0E	212.6	15.0E	246.8	8.0E	294.8
		4.0E	389.8	8.0E	698.6	15.0E	1108.0		
120.0	326.47	15.0E	52.9	8.0E	228.3	15.0E	276.9	8.0E	320.3
		4.0E	359.3	8.0E	493.0	4.0E	555.0	2.0E	621.1
		15.0E	824.8	8.0E	971.5	15.0E	1004.2	4.0E	1108.0
130.0	358.61	15.0E	61.5	8.0E	292.2	4.0E	383.1	8.0E	618.0
		4.0E	682.3	3.0E	859.7	5000.0E	1108.0		

TABULATION OF
AZIMUTH RADIATION AND GROUND CONDUCTIVITIES
FOR THE LICENSED DAYTIME OPERATION OF
KIDD, MONTEREY, CALIFORNIA
DECEMBER 2003
 (Page 2 of 2)

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data:							
		Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
140.0	384.83	15.0E	60.7	8.0E	222.1	4.0E	330.2	5000.0E	859.4
		3.0E	1108.0						
150.0	404.39	15.0E	58.4	8.0E	159.2	5000.0E	172.7	8.0E	193.9
		5000.0E	212.9	8.0E	284.5	5000.0E	1108.0		
160.0	417.55	15.0E	59.2	8.0E	100.0	5000.0E	1108.0		
170.0	425.33	15.0E	59.3	5000.0E	1108.0				
180.0	429.16	15.0E	49.6	5000.0E	1108.0				
190.0	430.57	15.0E	43.5	5000.0E	1108.0				
200.0	430.87	15.0E	30.9	5000.0E	1108.0				
210.0	430.89	15.0E	2.9	5000.0E	7.6	15.0E	24.2	5000.0E	1108.0
220.0	430.84	15.0E	2.0	5000.0E	11.1	15.0E	18.6	5000.0E	1108.0
230.0	430.32	15.0E	1.6	5000.0E	11.5	15.0E	18.4	5000.0E	1108.0
240.0	428.33	15.0E	1.3	5000.0E	12.4	15.0E	14.0	5000.0E	1108.0
250.0	423.48	15.0E	1.2	5000.0E	1108.0				
260.0	414.23	15.0E	1.1	5000.0E	1108.0				
270.0	399.22	15.0E	1.0	5000.0E	1108.0				
280.0	377.65	15.0E	1.0	5000.0E	1108.0				
290.0	349.53	15.0E	1.1	5000.0E	1108.0				
300.0	315.92	15.0E	1.1	5000.0E	1108.0				
310.0	278.91	15.0E	1.2	5000.0E	1108.0				
320.0	241.45	15.0E	1.4	5000.0E	39.3	8.0E	84.7	5000.0E	1108.0
330.0	207.02	15.0E	1.6	5000.0E	34.4	8.0E	123.6	5000.0E	157.5
		30.0E	317.2	4.0E	347.9	5000.0E	1108.0		
340.0	179.00	15.0E	2.1	5000.0E	33.6	8.0E	98.8	5000.0E	127.8
		30.0E	133.5	5000.0E	142.4	30.0E	152.4	5000.0E	169.4
		30.0E	172.9	8.0E	312.8	4.0E	556.4	5000.0E	1108.0
350.0	160.16	15.0E	3.2	5000.0E	25.0	8.0E	84.3	30.0E	91.7
		15.0E	155.0	8.0E	417.7	4.0E	969.4	5000.0E	977.2
		4.0E	981.6	5000.0E	1108.0				

Engineering Exhibit of KGDP, Oildale, California

TABULATION OF
COMPUTED DISTANCE TO CONTOURS
FOR THE LICENSED DAYTIME OPERATION OF
KIDD, MONTEREY, CALIFORNIA
DECEMBER 2003
 (Page 1 of 1)

MONTEREY, CA

Call: KIDD

Coordinates: N 36 41 28 W 121 48 0

Frequency: 630 kHz Number of contours: 1

Azimuth	Radiation	Distances to Contours in Kilometers :
	(mV/m at one km)	Contour levels in mV/m. 25.000
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.0	156.91	5.96
10.0	157.21	5.97
20.0	160.80	6.10
30.0	160.86	6.10
40.0	159.98	6.07
50.0	154.57	5.87
60.0	162.93	6.18
70.0	164.49	6.23
80.0	186.56	7.02
90.0	216.82	8.09
100.0	252.53	9.34
110.0	290.21	10.62
120.0	326.47	11.84
130.0	358.61	12.90
140.0	384.83	13.75
150.0	404.39	14.38
160.0	417.55	14.80
170.0	425.33	15.04
180.0	429.16	15.16
190.0	430.57	15.21
200.0	430.87	15.22
210.0	430.89	15.58
220.0	430.84	16.05
230.0	430.32	16.11
240.0	428.33	16.68
250.0	423.48	16.81
260.0	414.23	16.45
270.0	399.22	15.86
280.0	377.65	15.01
290.0	349.53	13.90
300.0	315.92	12.57
310.0	278.91	11.10
320.0	241.45	9.61
330.0	207.02	8.23
340.0	179.00	7.10
350.0	160.16	6.30