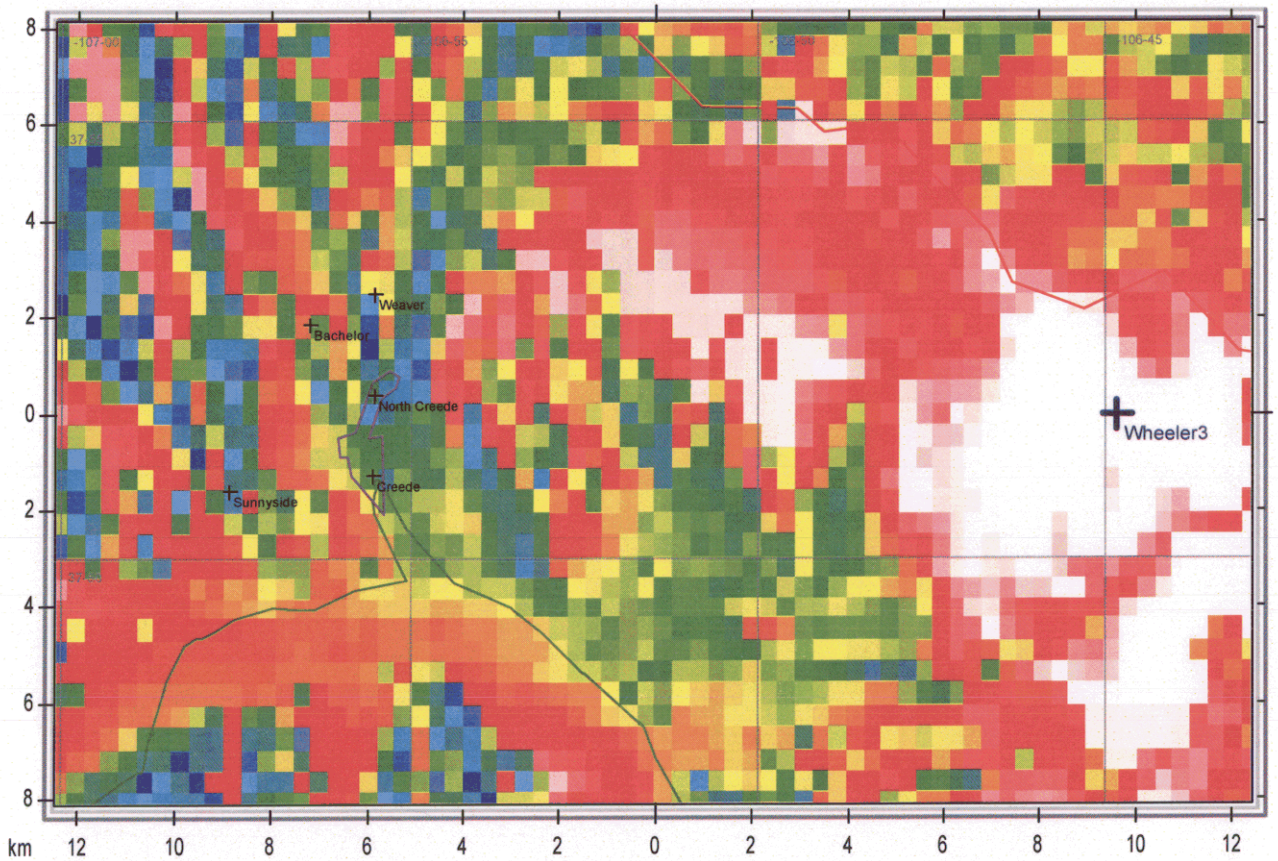
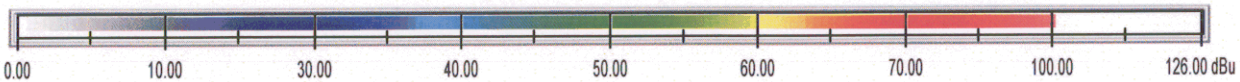
Portion of Rio Grande National Forest Map distributed by the United States Forest Service

Exhibit 5P

C2 Facility at Wheeler3



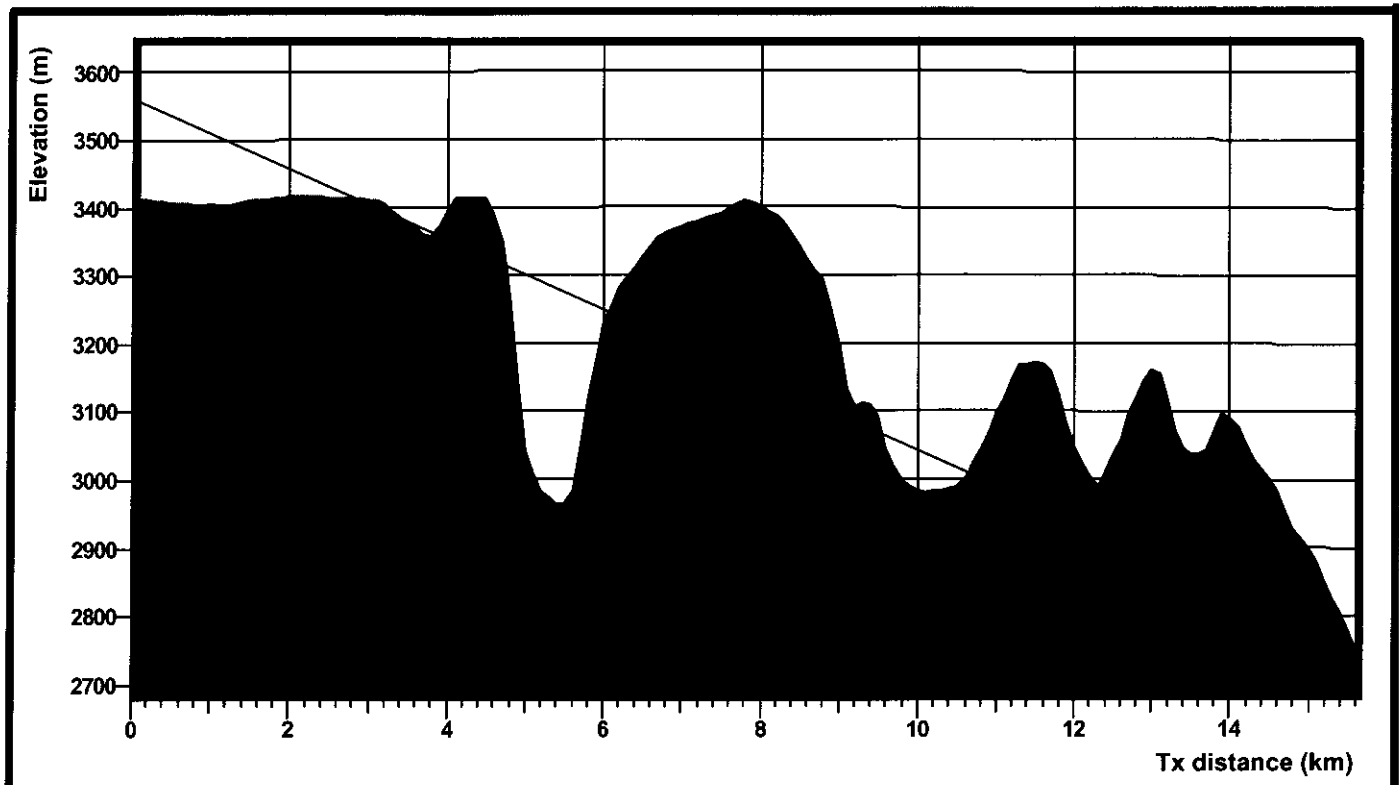
C/R 3563 Meters AMSL 19.6 KW ERP



County Borders State Borders City Borders Highways Lat/Lon Grid

Exhibit 5S

Link Study: C:\EDX\Projects\KAVDC0\trn/Wheeler3-Creede.trn



SIGNAL®

Prop. model: FCC-FCC
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: ITU-R 530-7
ITU-R terrain type: Inland
ITU-R refract. grad.: 20.0 %
External interf.: -150.0 dBmW
Dispersive fade margin: 80.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: ITU-R Rec 530-7
Rain region: f

Transmitter Site: Wheeler3
Name: Wheeler3
Location:
N37°51'38.00" W106°44'51.00"
Site elevation: 3413.0 m
Antenna height: 150.0 m
Pointing azimuth: 268.0 °
Transmitter power: 0.0005 kW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 17.85 dBd
Antenna file:
Total ERP: 0.05 kW

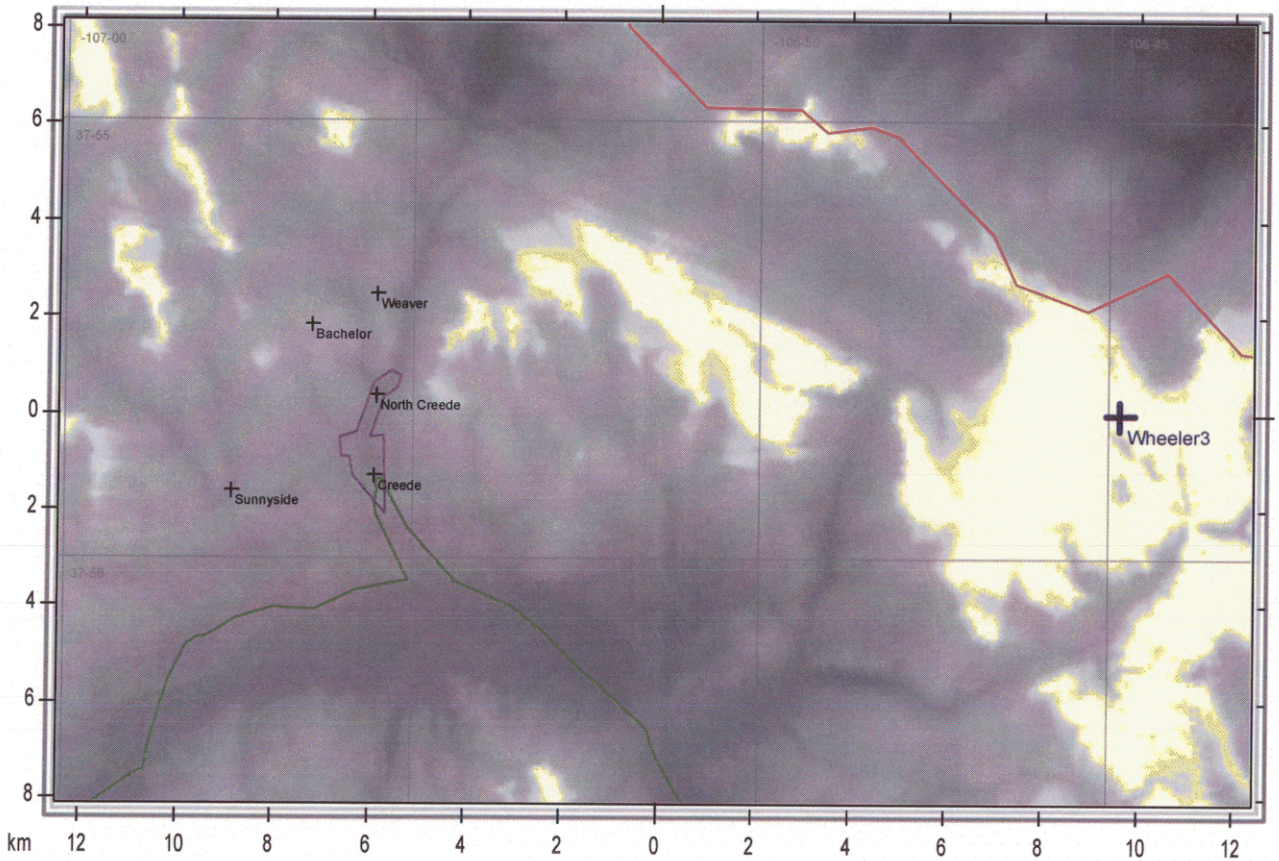
Name: Wheeler3 ->Creede
Frequency: 100.1000 MHz
Polarization: horizontal
Length: 15.68 km
Number of obstacles: 0
Excess path loss: 8.21 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 104.58 dB
Flat fade margin: 53.47 dB
Total fade margin: 53.42 dB
Annual fade outage: 0.00 s
Annual rain outage: 0.00 s
Link availability: 99.9999 %

Receiver Site: Creede
Name: Creede
Location:
N37°51'19.50" W106°55'34.00"
Site elevation: 2744.2 m
Antenna height: 9.1 m
Pointing azimuth: 88.0 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 17.85 dBd
Antenna file:
Received signal level: -37.59 dBmW

Notes

Exhibit 5T

C2 Facility at Wheeler3



C/R 3563 Meters AMSL 19.6 KW ERP

County Borders State Borders City Borders Highways Lat/Lon Grid

Exhibit 6S