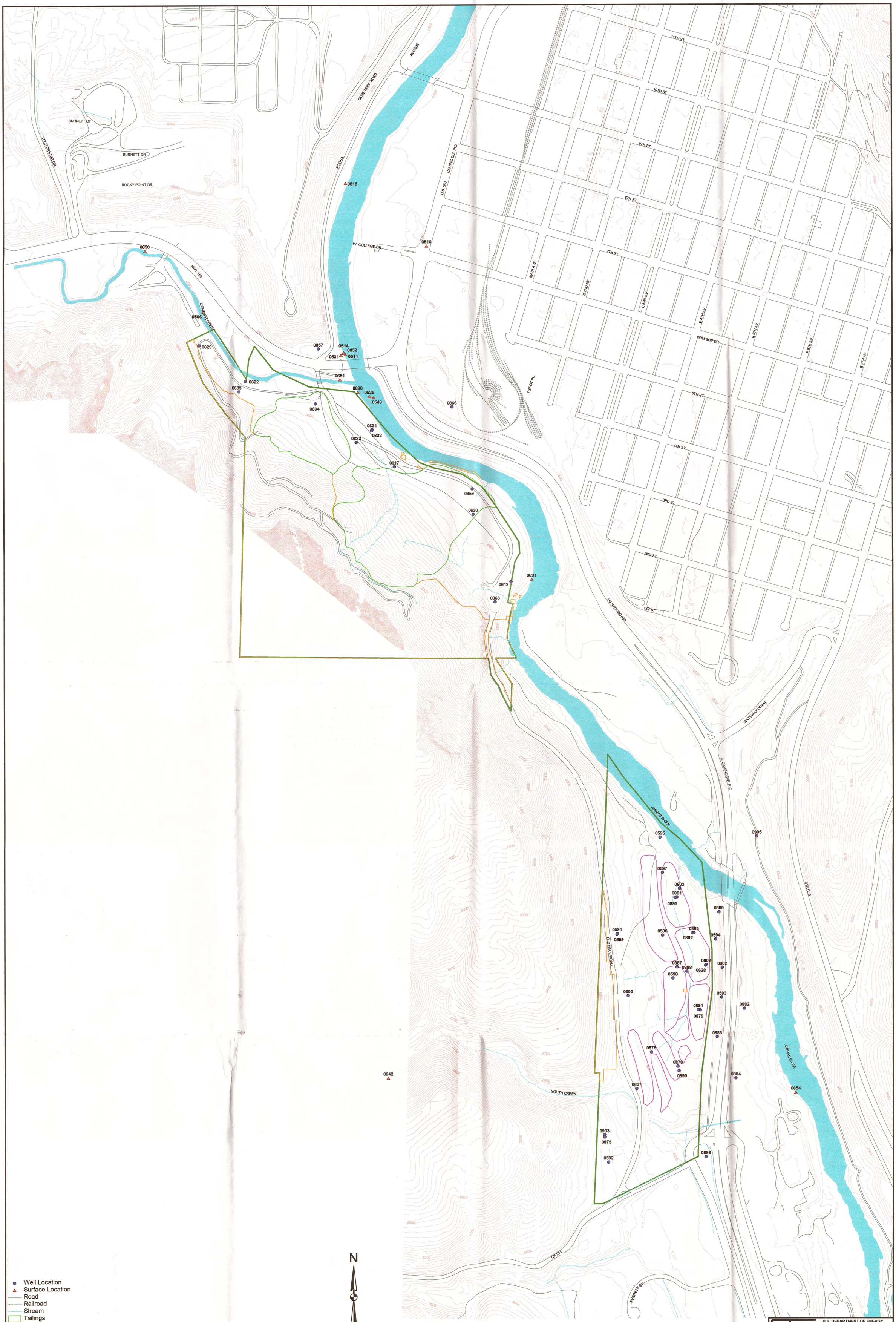

- Well Location
- Surface Location
- Road
- Railroad
- Stream
- Tailings
- Supplemental Standards
- Raffinate
- Site Boundary
- 10 ft Contour
- River

N

300 0 300 Feet

macTec-ers	U.S. DEPARTMENT OF ENERGY GRAND JUNCTION OFFICE, COLORADO
Plate 1:	Durango Base Map
DATE PREPARED: January 22, 2002	FILENAME: U0135400-02

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DURANGO

Smelter Rapids

Wastewater Treatment Plant

US Highways 160 and 550 (or S. Camino del Rio)

Gateway Drive

Animas River

City Park

Inferred Location of buried Bodo Fault

Qc

Coal

Kpl

Santa Rita Bridge

A

A'

Kplm

Kmf

Smelter Mountain

Old Haul Road

Bodo Fault

County Road 3

Old Railroad Grade

Slag

Old Quarry

South Creek

Approximate Subcrop of Kch / Kmf contact

Qt

Coal Prospect Dump

Kch

Kl

County Road 211

Bodo Canyon

0595 0905 0597 0603 0881 0893 0610 0889 0591 0599 0596 0623 0880 0892 109 0611 0594 0625 0624 0602 0628 0902 0887 0888 0598 101 0600 0609 102 0891 0879 0593 0882 103 0606 0883 106 104 0876 0878 0890 0884 0607 0601 0903 0875 0592 0886

Explanation

Quaternary

- Qt — Terrace Alluvium - high level south of South Creek
- Qc — Colluvium - includes some terrace alluvium

Upper Cretaceous

- Kl — Lewis Shale
- Kch — Cliff House Sandstone
- Kmf — Menefee Formation
- Kplm — Point Lookout Sandstone - upper massive part
- Kpl — Point Lookout Sandstone - lower part

- Slag
- Coal in the Menefee Formation

- Bodo Fault, dotted where covered, bar and ball on downthrown side; in places, a diorite porphyry dike has intruded along or near the fault.
- Diorite Porphyry Dike along Bodo Fault
- Contact of Kch / Kmf in the subsurface
- A — A' Line of North - South Cross Section

- 104 Approximate location of abandoned Bureau of Reclamation drill hole
- 0878 Active Well
- 0606 Decommissioned Well
- 0609 Abandoned Drill Hole

N

200 0 200 Feet

Contour Interval : 10 Feet

Geology adapted partly from Geologic Map of the Durango West Quadrangle, La Plata County, Colorado (Kirkham and others, 1999)

macTec-ers	U.S. DEPARTMENT OF ENERGY GRAND JUNCTION OFFICE, COLORADO
Plate 2:	Geologic Map of the Raffinate Ponds Area Durango, CO
DATE PREPARED: January 30, 2002	FILENAME: U0135700-03

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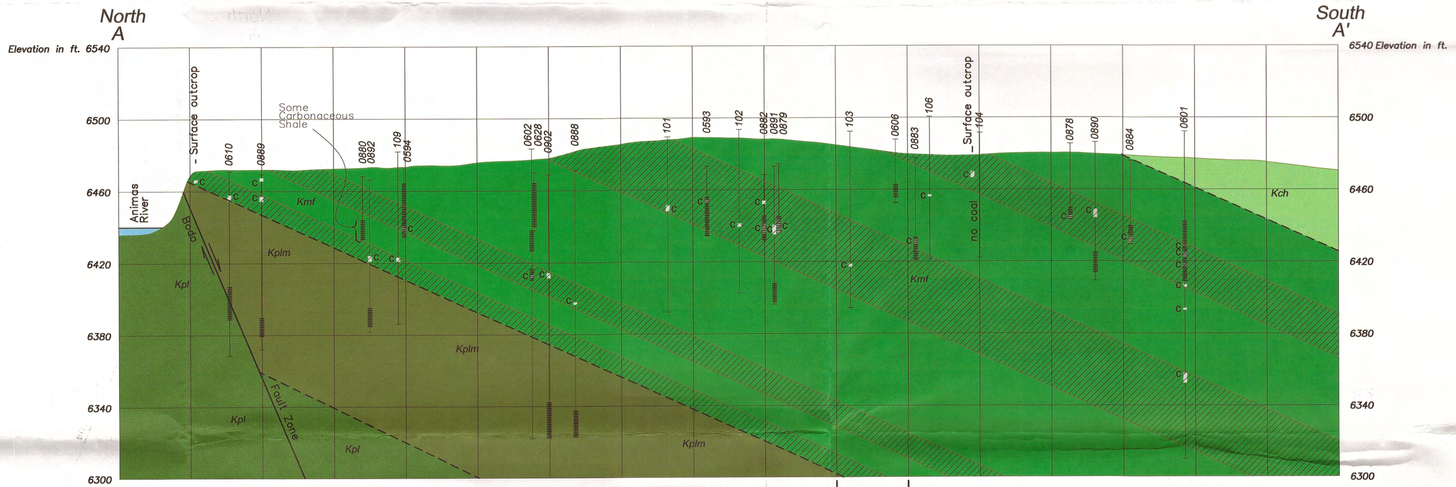

EXPLANATION

CRETACEOUS

- Kch — Cliff House Sandstone
- Kmf — Menefee Formation
- Kplm — Point Lookout Sandstone, upper massive part
- Kpl — Point Lookout Sandstone, lower part
- Main Zones where coal beds occur

0593 — Well or Drill Hole Number
Surface elevation of well or drill hole
Screened Interval
C — Coal Bed
Bottom of well borehole or drill hole

Ground surface along line of Cross Section

Approximate Location of Formation Contact

Approximate Location of Bodo Fault Zone showing direction of movement

Wells and drill holes were projected from various distances onto the cross section using the assumption that the formations strike due east (most strike measurements are within 5 degrees of due east).

Drill holes, shown in the cross section as the 100 series, were installed by the U. S. Bureau of Reclamation in 1989.

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mactec-ers	U.S. DEPARTMENT OF ENERGY GRAND JUNCTION OFFICE GRAND JUNCTION, COLORADO
Plate: 3	North–South Cross Section of Bedrock Formations and Coal beds at the Raffinate Ponds Area
DATE PREPARED: January 23, 2002	FILENAME: U0135600