NW

Bass Trail
sw 3-32n-1w, Coconino County
Elevation at Trail Head 6652'

29 MILES

Sinclair #1 Santa Fe Pacific
sw ne 35-28n-1w, Coconino County
Elevation 6055' GL

52 MILES

Lockhart #1 Babbitt
ne ne 21-27n-9e, Coconino County
Elevation 5096 GL

42 MILES

Roy Owens #1 Diablo-Amarillo State
ne nw 12-20n-11e, Coconino County
Elevation 5735' KB

16 MILES

The Townsend Co. #26-1 State
nw ne 26-19n-13e, Coconino County
Elevation 5254' KB

SE

L.F. NOBLE (USGS PROF PAPER 131-B)

AMSTRAT

AMSTRAT

GAMMA RAY | SONIC

GAMMA RAY | DENSITY-NEUTRON POROSITY

TOP COCONINO SANDSTONE

DATUM TOP OF COCONINO SANDSTONE

TOP COCONINO SANDSTONE

DEPTH BELOW TOP OF COCONINO SANDSTONE IN FEET

-500'
-1000'
-1500'
-2000'
-2500'
-3000'

330 ft.
Pale-buff fine-grained, conspicuously cross-bedded sandstone forming a sheer cliff.

Basal 6 ft. not cross-bedded.

332 ft.
Deep brick-red sandy shale and fine grained friable sandstone; upper portion characterized by concretionary structure.

A,306ft.
Alternating beds of red dish soft platy sandstone and buff massive cross bedded sandstone pass ing down into heavy beds of reddish purplish, and buff massive cross-bedded sandstone with partings of red sandy shale.

B,439ft.
Upper portion red friable sandstone and massive cross-bedded sandstone with a few thin beds of limestone and a prominent bed of limestone conglomerate; lower portion heavy beds of reddish and buff cross-bedded calcareous sandstone separated by thin beds of limestone or red shale.

C,208ft.
Red sandy shale, purplish and gray limestone with red chert, and reddish to buff calcareous sandstone. Sand increasingly abundant toward top.

85 ft. Massive gray crystalline limestone with a few thin partings of red shale.

B,500±.
Massive gray crystalline limestone forming a sheer cliff; upper portion obscurely and heavily bedded; middle portion distinctly bedded and containing thin layers of chert and sand; lower portion heavily bedded, sandy and magnesian. Poorly preserved fossils occur in middle portion and at top.

PERMIAN COCONINO SS

PERMIAN HERMIT SH

PERMIAN ESPLANADE SS

SUPAI GROUP OF McKEE

MISSISSIPPIAN REDWALL FORMATION

PERMIAN COCONINO SS

PERMIAN SUPAI FORMATION

CORDUROY MBR

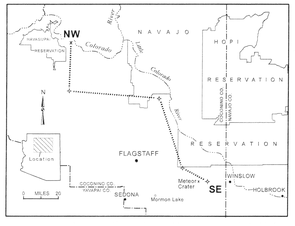
FORT APACHE MBR

AMOS WASH MBR

PENNSYLVANIAN / PERMIAN BOUNDARY INDETERMINATE

PENNSYLVANIAN NACO FORMATION

MISSISSIPPIAN REDWALL LIMESTONE



Correlation of Pennsylvanian and Permian Strata in Coconino County, Arizona

PLATE 1 OF 4

NW – SE STRATIGRAPHIC CROSS SECTION
Bass Trail, Grand Canyon to western Holbrook Basin
Coconino County, Arizona

Arizona Geological Survey
Open-File Report OFR 03-11

Steven L. Rauzi January 2003

200'
100'
SCALE
(V.E. 211X)
0 4 8 mi

SEE ARIZONA GEOLOGICAL SURVEY OFR 00-03 PLATE 6 FOR CONTINUATION OF CROSS SECTION TO SPRINGERVILLE AREA (RAUZI, 2000)

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