N — **S**

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

Sinclair #1 Santa Fe Pacific
sw ne 35-28n-1w, Coconir.o County
Elevation 6055′ GL

Willett #1 State
sw nw 24-20n-5e, Coconino County
Elevation 7199′ GL

Oil Discovery #1 Federal
ne se 17-19n-6e, Coconino County
Elevation 7012′ KB

Sedona Area
s½ 4-17n-6e, Coconino County
Elevation ~ 5400′

29 MILES | 55 MILES | 6 MILES | 11 MILES

L.F. NOBLE (USGS PROF PAPER 131-B) | AMSTRAT | AMSTRAT | GAMMA RAY | NEUTRON | E.D. MCKEE (HUDDLE & DOBROVOLNY, 1945)

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.

PERMIAN HERMIT SH

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

PERMIAN ESPLANADE SS

B, 439 ft.
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, 208 ft.
Red sandy shale, purplish and gray limestone with red chert, and reddish to buff calcareous sandstone. Sand increasingly abundant toward top.

D, 62 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

SUPAI GROUP OF MCKEE

PERMIAN COCONINO SS

PERMIAN SUPAI FORMATION OF WINTERS (1963)

FORT APACHE MBR

PENNSYLVANIAN / PERMIAN BOUNDARY INDETERMINATE

PENNSYLVANIAN NACO FORMATION

MISSISSIPPIAN REDWALL LIMESTONE

PRE-MISSISSIPPIAN FORMATIONS

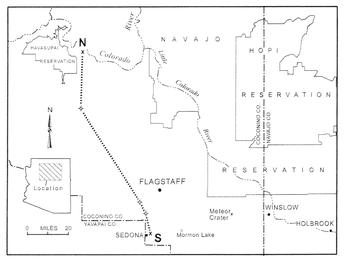
PRECAMBRIAN

TOROWEAP INCLUDED IN COCONINO SS IN SEDONA AREA (TURNER AND RAWSON, 1975)

COCONINO / TOROWEAP FROM BLAKEY AND KNEPP, 1989

HOPKINS #1 COCONINO CATTLE, SW NW 8-19N-5E, YAVAPAI CO.

SUBSURFACE MILL THICKNESS REPRESENTS AN AVERAGE FROM 14 WELLS TO ACCOUNT FOR VARIATION DUE TO SAMPLE DENSITY OF THE MISSISSIPPIAN REDWALL FM



Correlation of Pennsylvanian and Permian Strata in Coconino County, Arizona

PLATE 4 OF 4

N – S STRATIGRAPHIC CROSS SECTION
Bass Trail, Grand Canyon to Sedona area
Coconino County, Arizona

Arizona Geological Survey
Open-File Report OFR 03-01

Steven L. Rauzi — January 2003

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

SEE PLATE 1 FOR SELECTED BIBLIOGRAPHY