STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
VICKI S. McCONNELL, STATE GEOLOGIST

Preliminary Geologic Map of the Spencer Creek 7.5′ Quadrangle, Klamath County, Oregon

2008

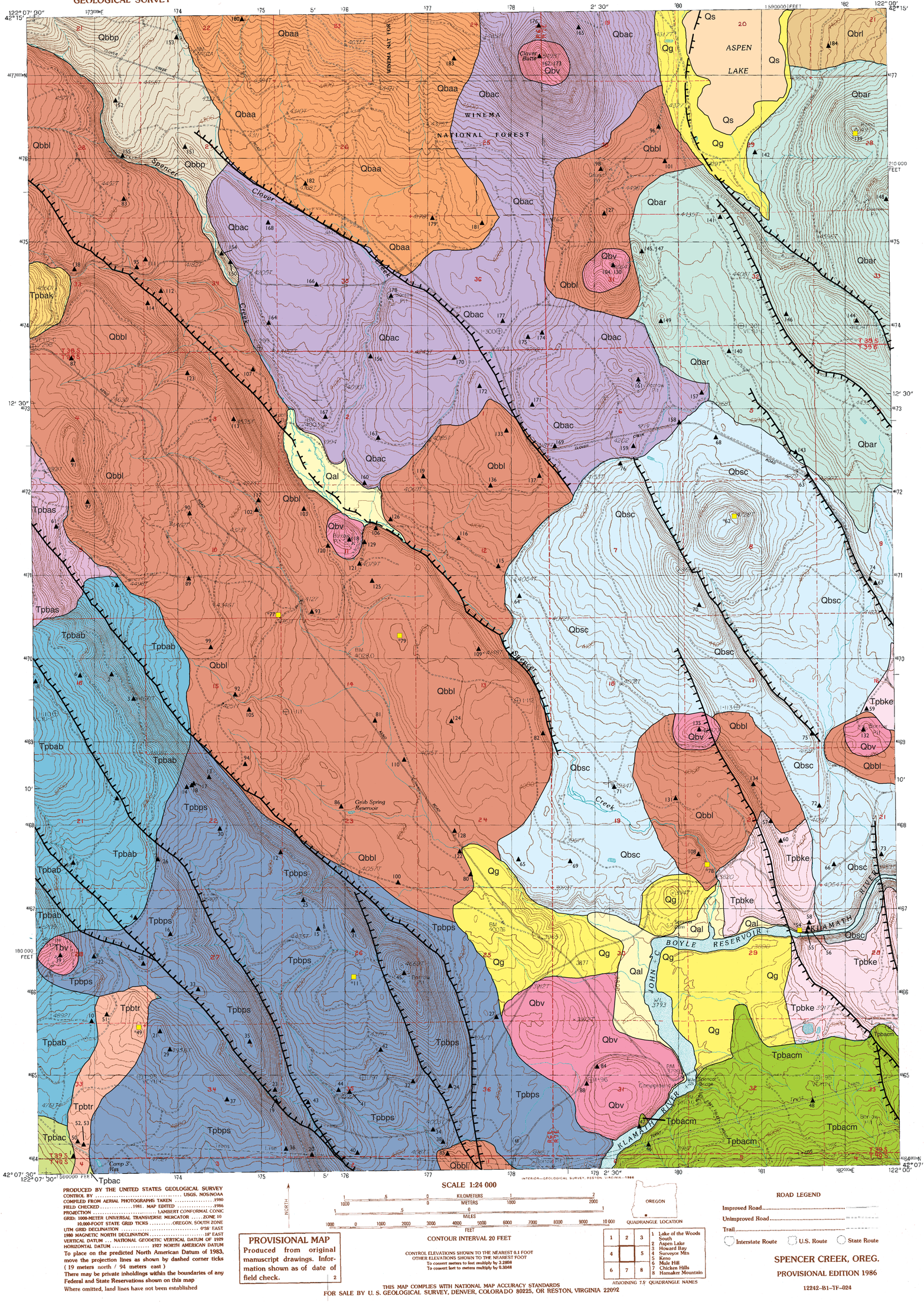
OPEN FILE REPORT 08-01

Preliminary Geologic Map of the Spencer Creek 7.5′ Quadrangle, Klamath County, Oregon

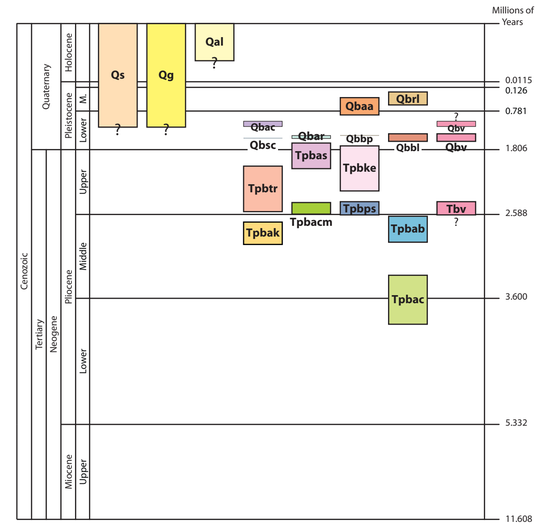
By S. A. Mertzman

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SPENCER CREEK QUADRANGLE
OREGON—KLAMATH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



TIME ROCK CHART



MAP UNITS

(A full description of the geologic units is found in the accompanying text.)

Surficial Units

- Qal — Alluvium (Holocene)
- Qg — Undifferentiated colluvium and alluvium (Holocene and Pleistocene)
- Qs — Lacustrine deposits (Holocene and Pleistocene)

Volcanic Units

- Qbv, Tbv — Basaltic to basaltic andesite vent deposits (Pliocene to Pleistocene)
- Qbrl — Basalt of Round Lake (Middle Pleistocene)
- Qbaa — Basaltic Andesite of Aspen Butte (Lower to Middle Pleistocene)
- Qbac — Basaltic Andesite of Clover Butte (Lower Pleistocene)
- Qbbp — Basalt of Buck Peak (Lower Pleistocene)
- Qbar — Basaltic Andesite of Roma (Lower Pleistocene)
- Qbbl — Basalt of Buck Lake (Lower Pleistocene)
- Qbsc — Basalt of Spencer Creek (Lower Pleistocene)
- Tpbas — Basaltic Andesite of Surveyor Mountain (Upper Pliocene to Lower Pleistocene)
- Tpbke — Basalt of Keno (Upper Pliocene to Lower Pleistocene)
- Tpbtr — Basalt of Tom Reservoir (Upper Pliocene)
- Tpbacm — Basaltic Andesite of Chase Mountain (Upper Pliocene)
- Tpbps — Basalt of Penny Spring (Upper Pliocene)
- Tpbab — Basaltic Andesite of Buck Mountain (Middle Pliocene)
- Tpbak — Basaltic Andesite of Kent Peak (Middle Pliocene)
- Tpbac — Basaltic Andesite of Camp Creek (Lower to Middle Pliocene)

GEOLOGIC MAP SYMBOLS

- Contact -- Approximately located
- Fault -- Solid where approximately located; dashed where concealed; bars are on the side of the down-dropped block.
- Sample location and map number for specimens with available age dates and chemical analyses -- Consult Table 1 in the attached text.
- Sample location and map number for specimens with available chemical analyses -- Consult Table 1 in the attached text.

Geology by:
Stanley A. Mertzman (Franklin and Marshall College)

Field Work: 1992, 1995, 1997, 1998, 1999, 2000, 2004, 2006, 2007

PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY ..... USGS, NOS/NOAA
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1980
FIELD CHECKED ..... 1981 MAP EDITED 1986
PROJECTION ..... LAMBERT CONFORMAL CONIC
GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR ..... ZONE 10
10,000-FOOT STATE GRID TICKS ..... OREGON, SOUTH ZONE
UTM GRID DECLINATION ..... 0°38′ EAST
1980 MAGNETIC NORTH DECLINATION ..... 18° EAST
VERTICAL DATUM ... NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM ..... 1927 NORTH AMERICAN DATUM
To place on the predicted North American Datum of 1983, move the projection lines as shown by dashed corner ticks (19 meters north / 94 meters east)
There may be private inholdings within the boundaries of any Federal and State Reservations shown on this map
Where omitted, land lines have not been established

SCALE 1:24 000
1 0 1 KILOMETERS 2
1000 0 METERS 1000 2000
1 0 1 MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10 000 FEET
CONTOUR INTERVAL 20 FEET
CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 FOOT
OTHER ELEVATIONS SHOWN TO THE NEAREST FOOT
To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by 0.3048
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

PROVISIONAL MAP
Produced from original manuscript drawings. Information shown as of date of field check.

OREGON
QUADRANGLE LOCATION

ADJOINING 7.5′ QUADRANGLE NAMES
1 Lake of the Woods South
2 Aspen Lake
3 Howard Bay
4 Surveyor Mtn
5 Keno
6 Mule Hill
7 Chicken Hills
8 Hamaker Mountain

ROAD LEGEND
Improved Road
Unimproved Road
Trail
Interstate Route U.S. Route State Route

SPENCER CREEK, OREG.
PROVISIONAL EDITION 1986
12242–B1–TF–024

NOTES REGARDING THE MAP:

The above map was created in and exported from MapInfo Professional® version 7.0 in the following projection: Universal Transverse Mercator (NAD 27 for US): UTM Zone 10 (NAD 27 for US). The U.S. Geological Survey 7.5 minute Spencer Creek quadrangle, the colored geologic units, the geologic unit boundaries, the faults, and the sample location symbols were exported from MapInfo and have since been kept in the same orientation. The exported map image has been uniformly resized using Adobe® Illustrator® CS3 to create a 1:24,000 scale. The colors of the exported map were adjusted using Adobe® Photoshop® CS3 to be consistent with USGS CMYK color standards. The map numbers and geologic unit labels were added to the map in Adobe® Illustrator® CS3. A final .pdf version of the map was created using Adobe® Illustrator® CS3.