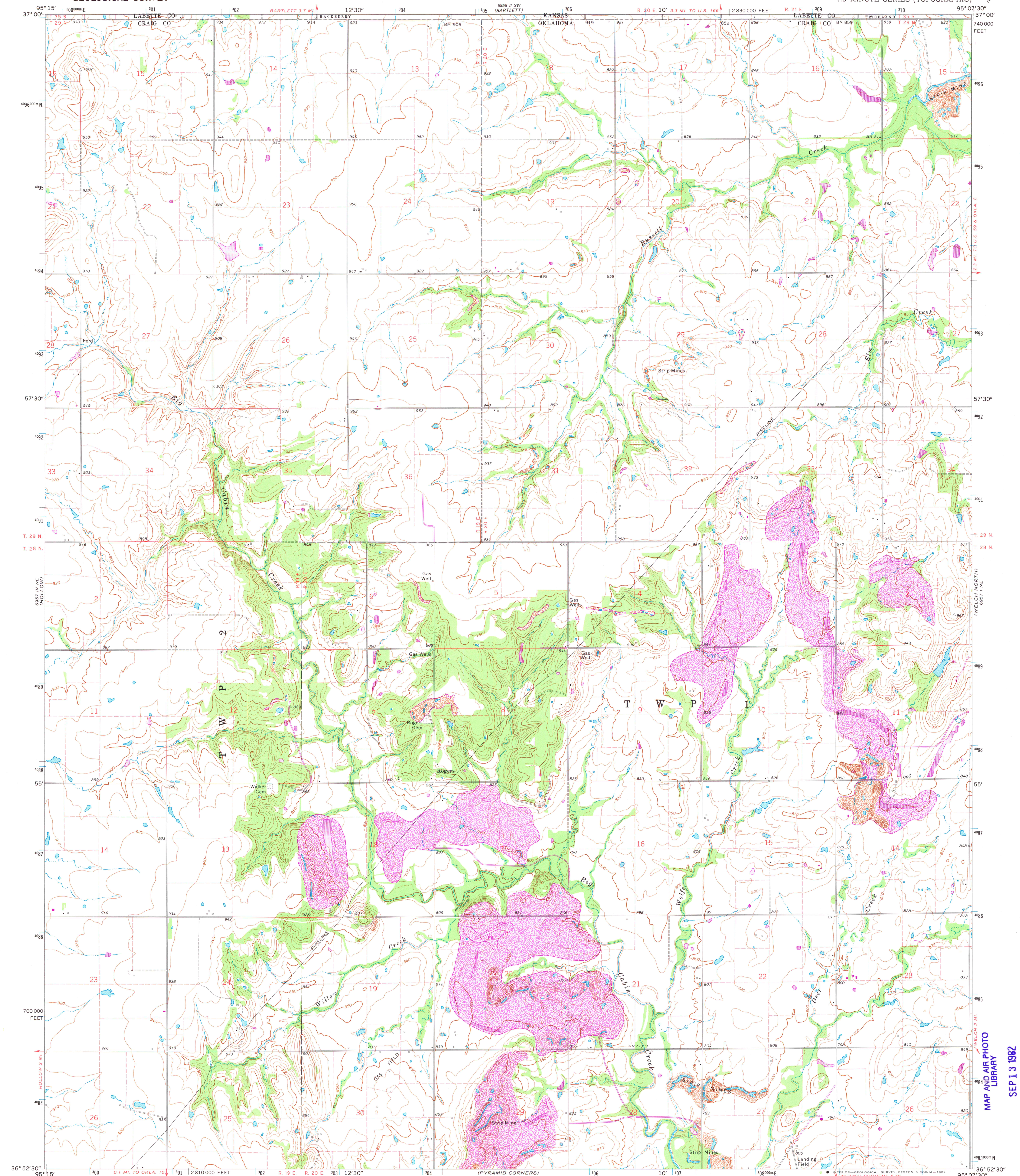


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WELCH NW QUADRANGLE
OKLAHOMA-KANSAS
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

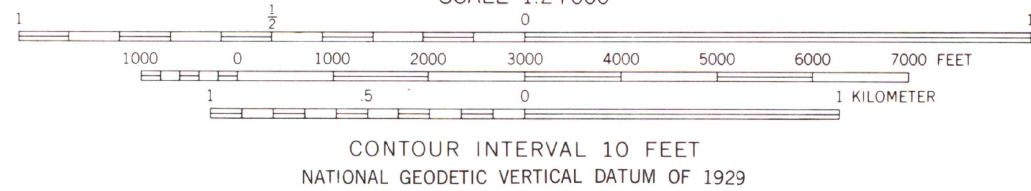
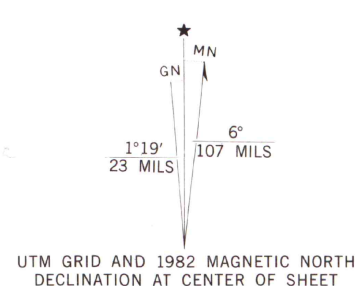
Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1970. Field checked 1971

Polyconic projection, 1927 North American datum
10,000-foot grid based on Oklahoma coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

To place on the predicted North American Datum 1983
move the projection lines 3 meters south and
21 meters east as shown by dashed corner ticks



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
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OKLAHOMA GEOLOGICAL SURVEY, NORMAN, OKLAHOMA 73069,
AND STATE GEOLOGICAL SURVEY, LAWRENCE, KANSAS 66044
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Revisions shown in purple compiled from aerial photographs
taken 1980 and other sources. Map edited 1982
This information not field checked
Areas bounded by dashed purple lines and
printed with disturbed surface pattern
represent reclaimed mining areas

ROAD CLASSIFICATION	
Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
Interstate Route	U. S. Route
	State Route

WELCH NW, OKLA.-KANS.
N3652.5-W9507.5/7.5

1971
PHOTOREVISED 1982
DMA 6957 1 NW-SERIES V885

MAP AND AIR PHOTO
LIBRARY

SEP 13 1982

University of Wisconsin
Madison