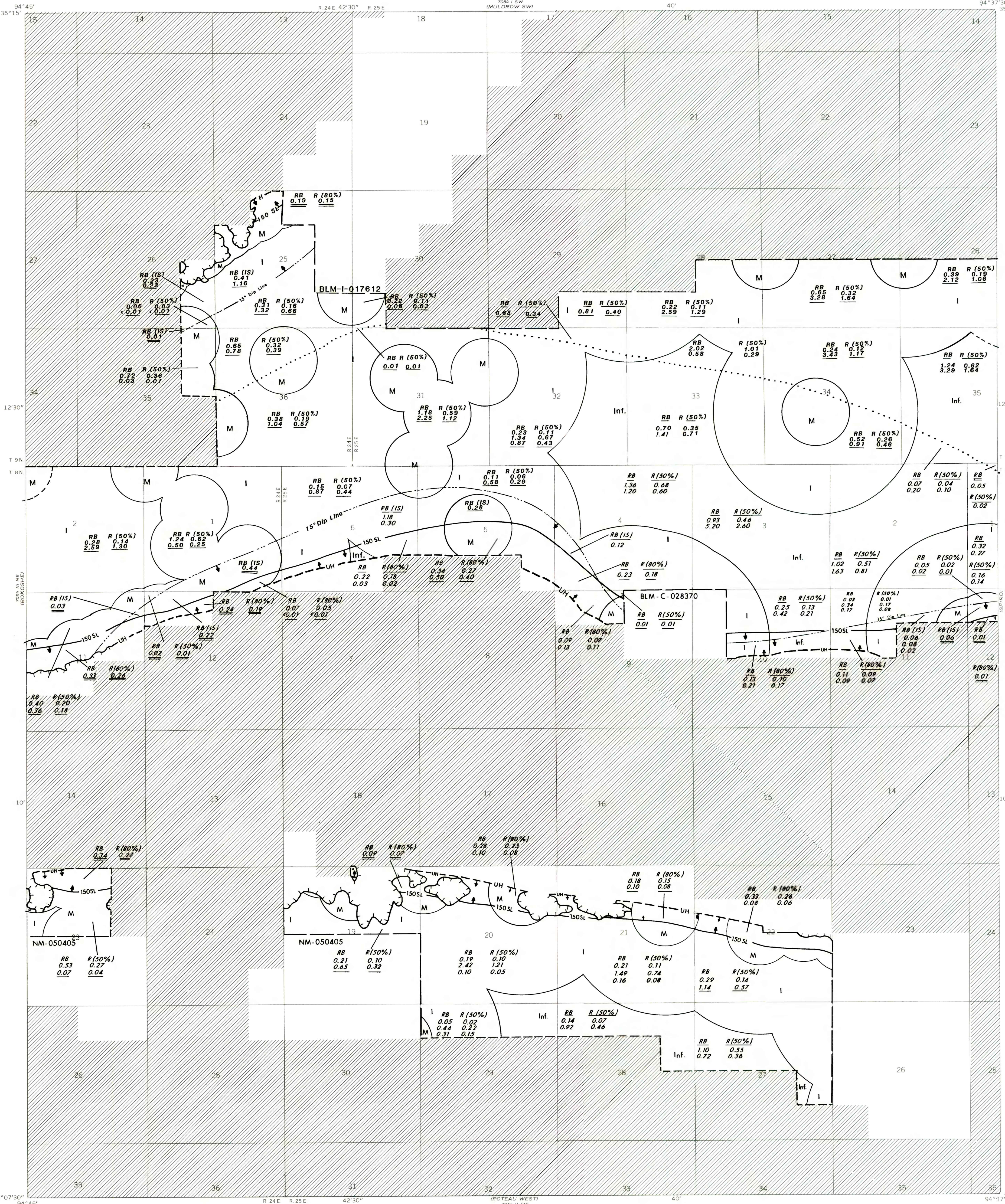


NOTE: The explanation has been compiled to depict all possible combinations of data and does not intentionally represent any particular data point.



EXPLANATION

NON-FEDERAL COAL LAND--Land for which the Federal Government does not own the coal rights.

BLM-C-029856

FEDERAL COAL LEASE BOUNDARY--Lease number within boundary.

TRACE OF COAL BED OUTCROP--Showing symbol of name of coal bed (as shown on Plate 1). Arrow points toward coalbearing area.

150SL

STRIPPING-LIMIT LINE--Boundary for surface mining (in this quadrangle, the 150-foot overburden isopach). Arrow points toward the area suitable for surface mining where the recovery factor is 80% and away from the area suitable for subsurface mining (down dip to the 3,000-foot-overburden isopach) where the recovery factor is 50%.

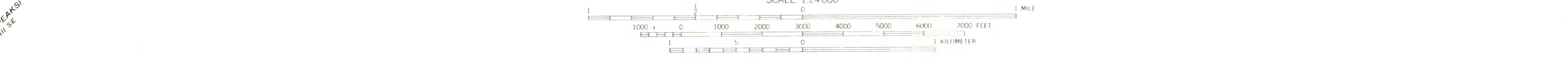
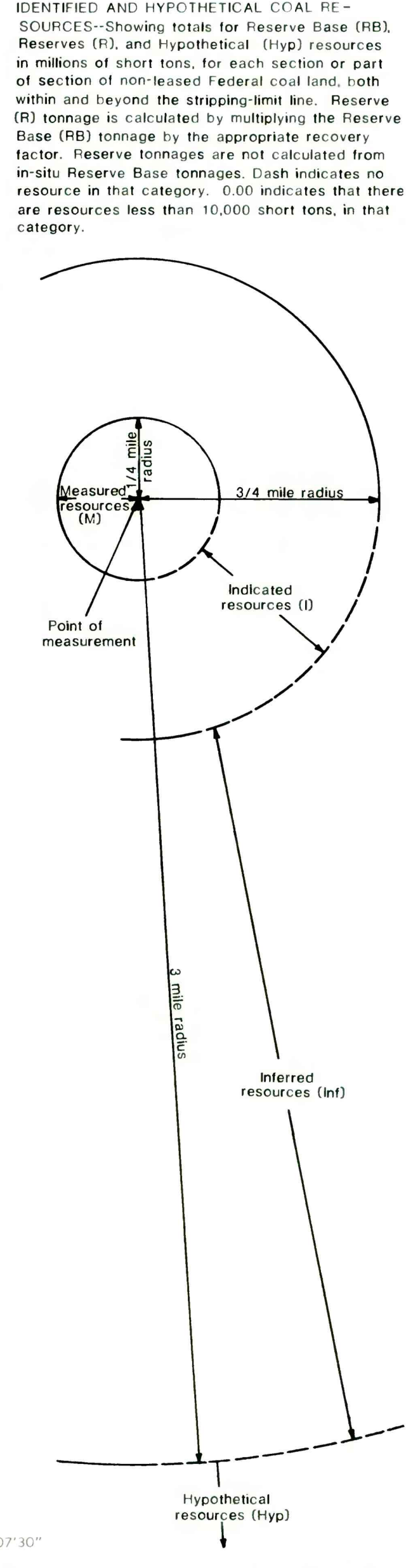
15° DIP LINE--Boundary between areas where dip of coal bed is greater than 15° and where dip is less than 15°. Reserve Base tonnages are calculated beyond limit. Reserve tonnages are not. Arrow points toward area where coal bed dip is greater than 15°. This area is considered suitable for in-situ gasification only.

MINE WORKINGS AND STRIPPED AREAS--Showing mined-out areas. Hachures are inside mined-out areas. Narrow strips between mines where undisturbed coal is less than 75 meters from the nearest mine are considered to have no reserves and are included within mined-out areas.

SPLIT LINE--Line along which the Hartshorne coal bed splits into the Upper and Lower Hartshorne coal beds. This line corresponds to the 1-foot interburden isopach line.

Surface	Subsurface
RB R(80%)	RB R(50%)
0.01 0.01	0.78 0.39
0.01 0.01	3.03 1.51
0.01 0.01	0.61 0.30
Hyp	Hyp 0.00

IDENTIFIED AND HYPOTHETICAL COAL RESOURCES--Showing totals for Reserve Base (RB), Reserves (R), and Hypothetical (Hyp) resources in millions of short tons, for each section or part of section of non-leased Federal coal land, both within and beyond the stripping-limit line. Reserve (R) tonnage is calculated by multiplying the Reserve Base (RB) tonnage by the appropriate recovery factor. Reserve tonnages are not calculated from in-situ Reserve Base tonnages. Dash indicates no resource in that category. 0.00 indicates that there are resources less than 10,000 short tons, in that category.



FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE PANAMA 7.5-MINUTE QUADRANGLE, LEFLORE COUNTY, OKLAHOMA
 BY GEOLOGICAL SERVICES OF TULSA, INC., B. T. BRADY, USGS, AND J. L. QUERRY, BLM

PLATE 8
AREAL DISTRIBUTION AND IDENTIFIED RESOURCES MAP OF THE HARTSHORNE COAL BED AND UPPER SPLIT

This report was prepared under contract to the U.S. Geological Survey, and has not been edited for conformity with Geological Survey editorial standards or stratigraphic nomenclature. Opinions expressed herein do not necessarily represent those of the Geological Survey.

COMPILED IN 1980
 This map intended for land-use planning purposes only

To convert short tons to metric tons, multiply short tons by 0.9072.
 To convert feet to meters, multiply feet by 0.3048.
 To convert miles to kilometers, multiply miles by 1.6093.