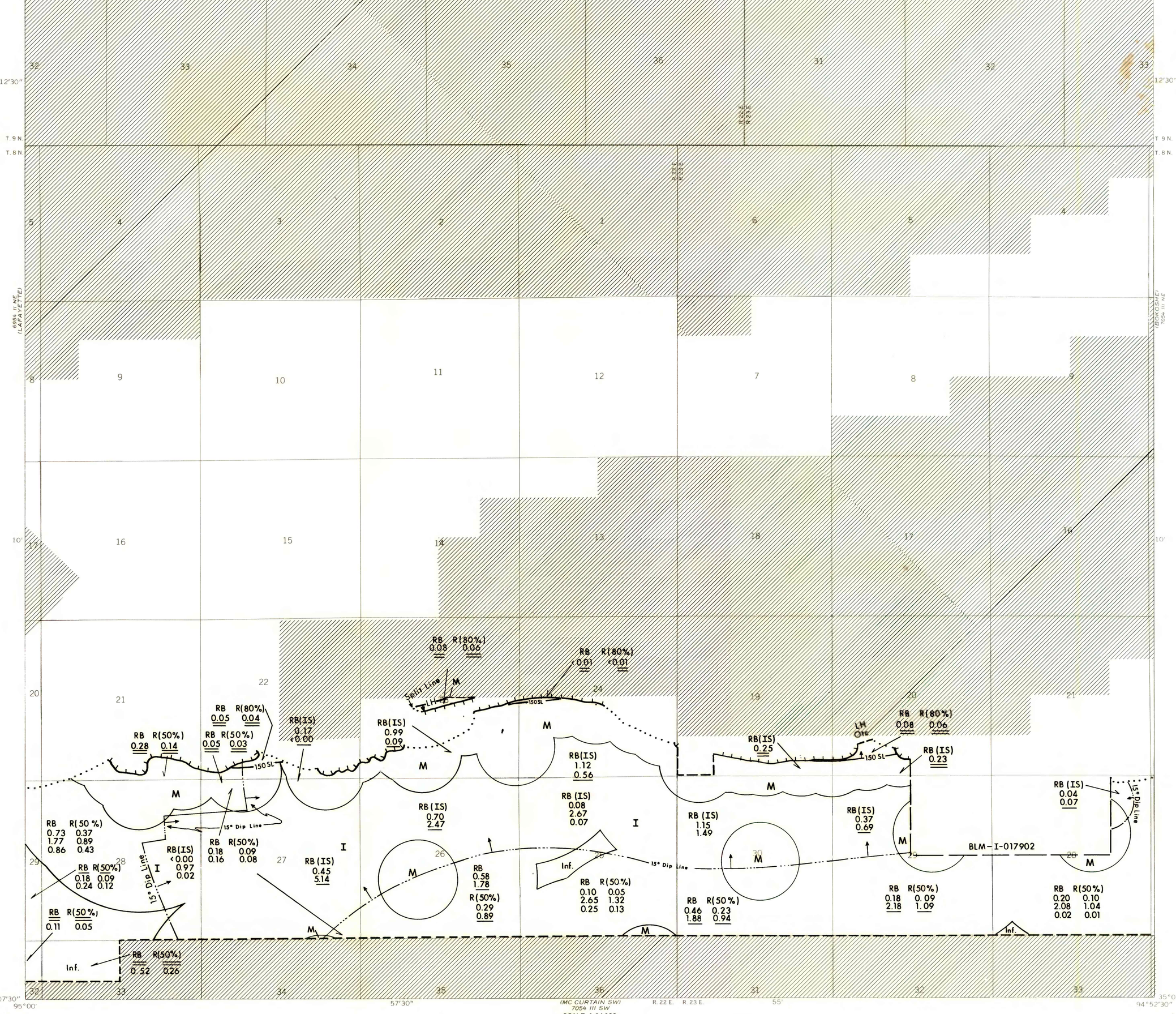
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MC CURTAIN QUADRANGLE
OKLAHOMA
7.5 MINUTE SERIES (TOPOGRAPHIC)

6954 I SE (STIGLER EAST)
7054 IV SW (KEOTA)
7054 IV SE (ROBERT S. KERR DAM)
6954 II NE (LAFAYETTE)
7054 III NE (BOKOSHE)
6954 II SE (LECOUREE)
7054 II SE (POTATO PEAK)
(MC CURTAIN SW) 7054 III SW

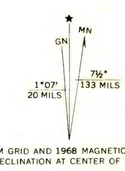
95°00' 57'30" R. 22 E. R. 23 E. 55' 94°52'30"
35°15' 35°07'30"
T. 9 N.
T. 8 N.



SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL



UTM GRID AND 1968 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

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.

LH

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%.

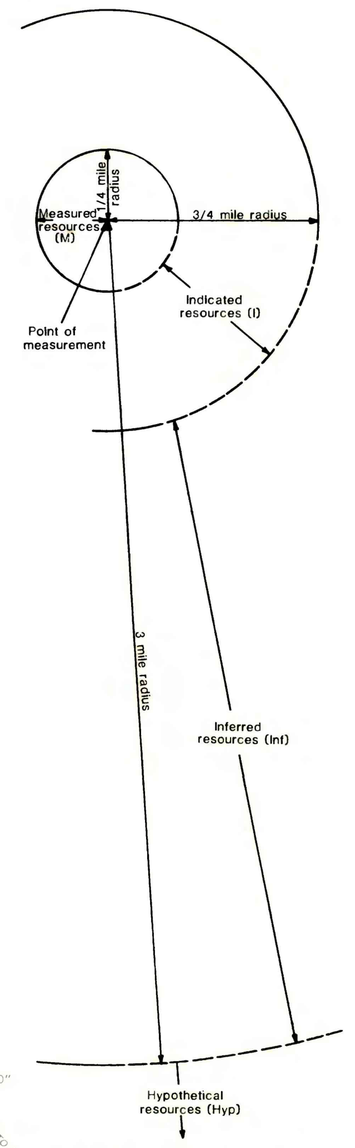
15° DIP LINE--Boundary between areas where dip of coal bed is greater than 15° and where dip is less than 15°. Reserve Base tonnages are calculated beyond limit; Reserve tonnages are not. Arrow points toward area where coal bed dip is greater than 15°. This area is considered suitable for in-situ gasification 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		In-situ	
RB	R(80%)	RB	R(50%)	RB(IS)	
—	—.	0.78	0.39	—	(Measured)
0.01	0.01	3.03	1.51	—	(Indicated)
—	—	0.61	0.30	0.45	(Inferred)

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.



BOUNDARY LINES--Enclosing areas of measured (M), indicated (I), inferred(Inf) parts of identified coal resources. Dashed where projected from adjacent quadrangles. Hypothetical (Hyp) coal resources are located beyond the inferred part of identified coal resources (more than 3 miles from a measurement point).

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.

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

FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE MC CURTAIN 7.5-MINUTE QUADRANGLE, HASKELL AND LEFLORE COUNTIES, OKLAHOMA

BY GEOLOGICAL SERVICES OF TULSA, INC., B. T. BRADY, USGS, AND J. L. QUERRY, BLM

PLATE 13
AREAL DISTRIBUTION AND IDENTIFIED RESOURCES MAP OF THE LOWER SPLIT OF THE HARTSHORNE COAL BED