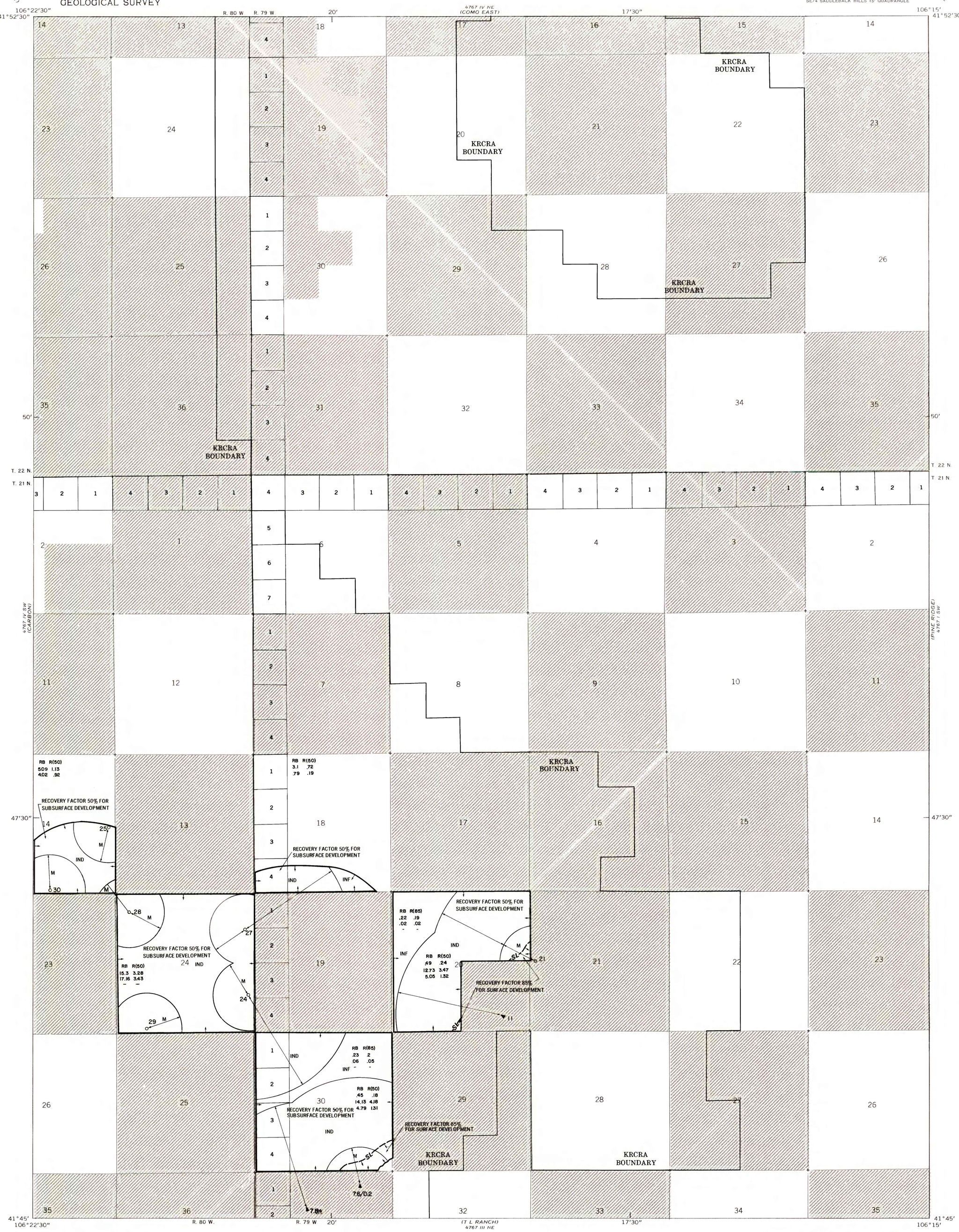
OPEN FILE REPORT
78-043
13 OF 31

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HALFWAY HILL QUADRANGLE
WYOMING–CARBON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 SADDLEBACK HILLS 15' QUADRANGLE



Base map from U.S. Geological Survey, 1971

Compiled in 1977 by TEXAS INSTRUMENTS INCORPORATED

UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

QUADRANGLE LOCATION

EXPLANATION

KRCRA BOUNDARY

KNOWN RECOVERABLE COAL RESOURCE AREA–Area in which the Federal coal land is classified, (1) as subject to the coal leasing provisions of the Mineral Leasing Act of 1920, as amended and, (2) by virtue of the available data being sufficient to permit evaluation as to extent, location, and potential for developing commercial quantities of coal.

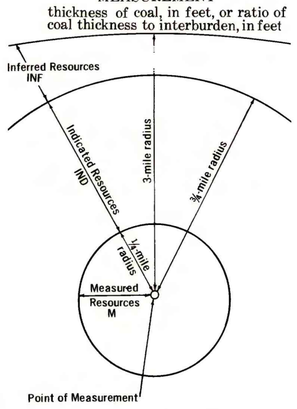
NON-FEDERAL COAL LAND–Land for which the Federal Government does not own the coal rights.

STRIPPING LIMIT LINE–Boundary for surface mining of the coal bed. Limit is 200 feet of overburden. Arrows point toward the area suitable for strip mining. Recovery factor of 85 percent within that area in this quadrangle. Dashed where inferred.

BOUNDARY OF RESERVE BASE COAL–Segments comprising the boundary line include: (1) the outcrop of coal bed or contact between burned and unburned coal where the coal is 5 feet (1.5 m) or more thick, (2) the 5-foot (1.5 m) coal isopach, (3) an arc 3 miles from the nearest coal measurement point, (4) insufficient data lines, (5) the coal isopach farthest downdip from the outcrop trace, (6) boundaries of leased Federal coal and non-Federal coal land, and (7) KRCRA boundaries. Arrows point toward areas of Reserve Base coal.

LOCATION OF SUBSURFACE COAL MEASUREMENT
thickness of coal, in feet

LOCATION OF SURFACE COAL MEASUREMENT
thickness of coal, in feet, or ratio of coal thickness to interburden, in feet



BOUNDARY LINES–Enclosing areas of measured, indicated, and inferred coal resources of the coal bed.

RB	R(85%)	
.22	.19	(Meas. resources)
.02	.02	(Ind. resources)
-	-	(Inf. resources)

IDENTIFIED COAL RESOURCES OF THE JOHNSON BED–Showing totals for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part(s) of section of Federal coal land within the stripping-limit line. Dash indicates no resources in that category. Reserve Base (RB) X the Recovery Factor (85 percent) = Reserves (R).

RB	R(50%)	
.49	.24	(Meas. resources)
12.73	3.47	(Ind. resources)
5.05	1.32	(Inf. resources)

IDENTIFIED COAL RESOURCES OF THE JOHNSON BED–Showing totals for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part(s) of section of Federal coal land outside the stripping-limit line. Dash indicates no resources in that category. Reserve Base (RB) X the Recovery Factor (50 percent) = Reserves (R).

To convert short tons to metric tonnes multiply short tons by 0.9072.

OPEN FILE REPORT
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.

COAL RESOURCE OCCURRENCE MAP OF THE HALFWAY HILL QUADRANGLE, CARBON COUNTY, WYOMING
BY
TEXAS INSTRUMENTS INCORPORATED
1978

PLATE 12
AREAL DISTRIBUTION
AND IDENTIFIED RESOURCES
OF THE JOHNSON COAL BED