OPEN FILE REPORT

78-043

28 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

4767 IV NW (COMO WEST)
4767 I NW (MEDICINE BOW)
4767 IV NE (COMO EAST)
4767 IV SW (CARBON)
4767 I SW (PINE RIDGE)
4767 III NW (ELK MOUNTAIN)
4767 III NE (T L RANCH)
4767 II NW (MC FADDEN)

106°22'30" 20' 17'30" 106°15'
41°52'30" 47'30" 41°45'
50'
R. 80 W. R. 79 W.
T. 22 N.
T. 21 N.

KRCRA BOUNDARY

RB R(50)
- -
.02 .01
RECOVERY FACTOR 50% FOR SUBSURFACE DEVELOPMENT

RB R(85) RB R(50)
.4 .34 - -
.09 .08 .07 .04
- - - -
8.2/4.8
RECOVERY FACTOR 85% FOR SURFACE DEVELOPMENT

7.8/5.9

RB R(85)
.08 .07
1.28 .73
- -
RECOVERY FACTOR 85% FOR SURFACE DEVELOPMENT
7.2/5.1

RB R(50)
5.46 2.52
4.57 2.21
- -
RECOVERY FACTOR 50% FOR SUBSURFACE DEVELOPMENT

6.8

6.5/5.5
RECOVERY FACTOR 85% FOR SURFACE DEVELOPMENT

RB R(85)
.21 .17
.42 .36
.20 .17

Base map from U.S. Geological Survey, 1971

Compiled in 1977 by TEXAS INSTRUMENTS INCORPORATED

SCALE 1:24 000
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

GN MN
0°52' 16 MILS
14° 248 MILS
UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

WYOMING
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.

SL

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.

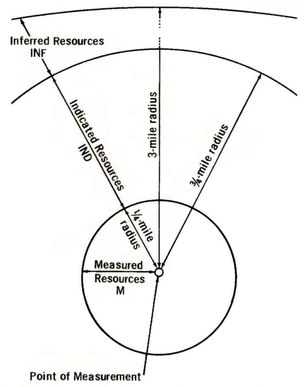
RB

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.

o10

LOCATION OF SUBSURFACE COAL MEASUREMENT
thickness of coal, in feet
6.5/5.5

LOCATION OF SURFACE COAL MEASUREMENT
ratio of coal thickness to interburden



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

RB	R(85%)	
4	.34	(Meas. resources)
.09	.08	(Ind. resources)
-	-	(Inf. resources)

IDENTIFIED COAL RESOURCES OF THE CARBON 6 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%)	
-	-	(Meas. resources)
.07	.04	(Ind. resources)
-	-	(Inf. resources)

IDENTIFIED COAL RESOURCES OF THE CARBON 6 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 27
AREAL DISTRIBUTION
AND IDENTIFIED RESOURCES
OF THE CARBON 6 COAL BED