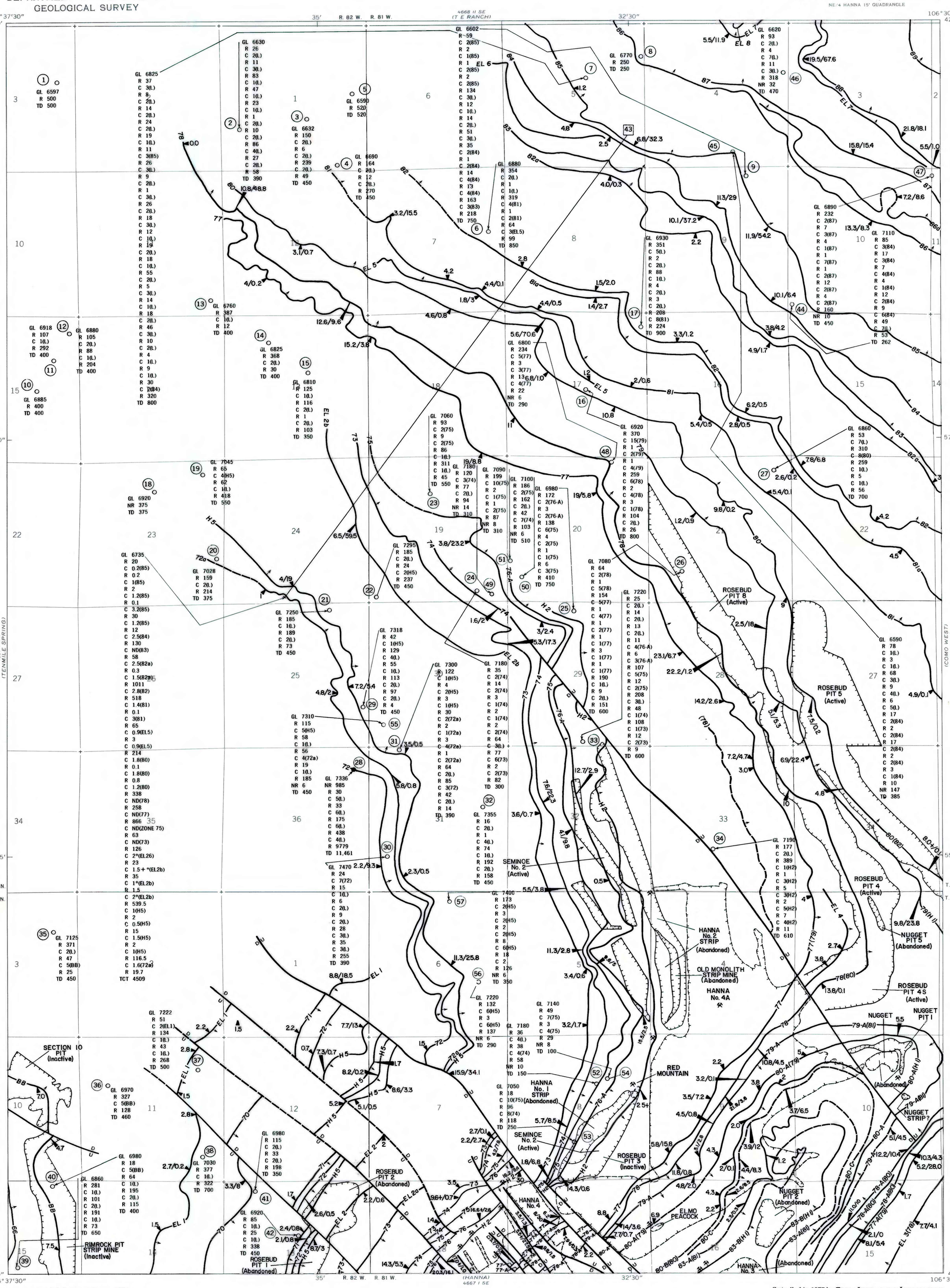
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ELMO QUADRANGLE
WYOMING—CARBON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 HANNA 15' QUADRANGLE



Base map from U.S. Geological Survey, 1971

Compiled in 1977 by TEXAS INSTRUMENTS INCORPORATED

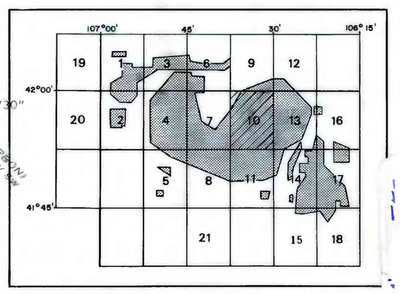
SCALE 1:24 000

1 MILE

7000 FEET

1 KILOMETER

UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE ELMO QUADRANGLE, CARBON COUNTY, WYOMING

BY

TEXAS INSTRUMENTS INCORPORATED

1978

OPEN FILE REPORT

78-045

1 OF 44

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

EXPLANATION

11 ○ GL 6918
R 107
C 1(L)
R 292
TD 400

COAL TEST HOLE—Showing index number of hole on plate 3 of CRO map and drill-hole data, in feet.

28 ● GL 7336
NR 985
R 30
C 5(L)
R 33
TD 11,461

OIL AND GAS TEST HOLE—Showing index number of hole on plate 3 of CRO map and drill-hole data, in feet.

ND—No thickness data—coal horizon
GL—Ground level elevation
NR—No record
R—Rock interval
C—Coal interval
TD—Total depth

DRILL-HOLE DATA SYMBOLS

43 ———————

*—Measured coal thickness
ND—No thickness data—coal horizon
TCT—Total calculated thickness

COMPILED SECTION—Showing index number of section on plate 3 of CRO map. All thicknesses are estimated unless noted by asterisk(*).

89
88
EL8 = Elmo Lens 8
EL7
87
86a
86
85
84
EL6 = Elmo Lens 6
83-B (Dobbin) = H1 (Glass)—Hanna No. 1
83-A (Dobbin) = 81 (Glass)
83
82a
82
81a
81
EL5 = Elmo Lens 5
80-C
80-B (Dobbin) = 80 (Glass)
80-A (Dobbin) = 70(Glass)
80 (Dobbin) = 82 (Glass)
79-A (Dobbin) = 81 (Glass)
79 (Dobbin) = H1 (Glass)—Hanna No. 1
78-A (Dobbin) = 80 (Glass)
78 (Dobbin) = 80 (Glass)
EL4 = Elmo Lens 4
77-A (Dobbin) = 79 (Glass)
EL3 (Dobbin) ≈ Elmo Lens 3 = 78 (Glass)
77 (Dobbin) = 79 (Glass)
H2 = Hanna No. 2
76-A
76
75
74
73
EL2b = Elmo Lens 2b
EL2a = Elmo Lens 2a
EL2 = Elmo Lens 2
H5 = Hanna No. 5
72a
72
71
70
EL1 = Elmo Lens 1
BB = Brooks Bed
66
L = Local lens
86a, EL = Local bed identifier

Coal bed designation in Glass, (1972) is shown in parentheses where it differs from designation in Dobbin, (1929).

COAL BED SYMBOLS AND NAMES

78
10 13.8/0.1

TRACE OF COAL BED OUTCROP—Line dashed where outcrop is uncertain. Showing thickness of coal, in feet, or ratio of coal thickness to interburden, in feet, measured at triangle. Letter and/or number designate name of coal bed as listed above. Arrow points toward coal-bearing area.

D
U

FAULT—Dashed where approximately located. U, upthrown side; D, downthrown side.

STRIP MINE

UNDERGROUND MINE WORKINGS

ABANDONED UNDERGROUND MINE

To convert feet to meters, multiply feet by 0.3048.

REFERENCES

Dobbin, C.E., Bowen, C.F., and Hoots, H.W., 1929, Geology and coal and oil resources of the Hanna and Carbon Basins, Carbon County, Wyoming: U.S. Geol. Survey Bull. 804, 88 p., 27 pls., 3 figs.

Glass, G.B., 1972, Mining in the Hanna coal field: Wyoming Geol. Survey Misc. Rept., 45 p., 13 figs.

Wyoming Geol. Survey, 1977, Plats of surface and underground mines: Wyoming Geol. Survey, unpublished data.

MAP SHOWING LOCATION OF THE ELMO (10) QUADRANGLE AND THE HANNA-CARBON BASINS KNOWN RECOVERABLE COAL RESOURCE AREA, WYOMING.

PLATE 1

COAL DATA MAP