OPEN FILE REPORT
78–050
1 OF 18

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TENMILE SPRING QUADRANGLE
WYOMING–CARBON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 HANNA 15' QUADRANGLE

4668 III (SEMINOE D...) SE

106°45′ 42°30″ R. 83 W. 4668 II SW (SCHNEIDER RIDGE) R. 82 W. 40′ 106°37′30″ 42°00′

SEMINOE RESERVOIR

32 GL 6454 NR 983 R 11,499 R 4 TD 12,486

31 GL 6540 R 800 TD 800

33 GL 6562 R 450 TD 450

1 GL 6586 R 60 C 2(69) R 438 TD 500

GL 6680 R 19.5 C 0.9*(TSL9) R 132.7 C 1.6(TSL7) R 378.2 C ND(65) R 201 C 2.8(64) R 1.0 C 1.3(64) R 974 C 3.4(58) R 0.5 C 0.3(58) R 0.3 C 0.6(58) R 302 C 0.8(51) R 0.1 C 1.1(51) R 304 C 0.7(50) R 0.7 C 1.3(50) R 0.3 C 0.7(50) R 0.3 C 2.4(50) R 0.1 C 1.7(50) R 203 C 1.9(49) R 186 C 0.8(38) R 0.1 C 0.8(38) R 0.3 C 1.1(38) R 56 C 5.0(37) R 33 C 1.1(36) R 18.6 TCT 2842

GL 6860 R 18 C 3.0*(TSL15) R 705 C 4.0(BB) R 562 C 3.0(66) R 811 C ND(ZONE 65) R 443 C 1.6(60-B) R 140 C 0.8(60) R 1.0 C 0.6(60) R 1.8 C 0.3(60) R 340 C 1.6(59) R 0.3 C 1.5(59) R 66 C 3.3(57) R 123 C 2.9(56) R 7.0 C 0.5(56) R 4.5 C 1.6(56) R 0.3 C 5.0(56) R 8.4 TCT 3261

2 GL 6760 R 35 C 3(TSL14) R 312 TD 350

3 GL 6820 R 104 C 2(TSL12) R 344 TD 450

35 GL 6810 R 350 TD 350

GL 6560 R 69 C 3(65) R 1 C 7(65) R 78 C 9(64) R 42 C 2(L) R 5 C 1(L) R 175 C 2(L) R 92 C 4(60-B) R 410 TD 900

GL 6725 R 175 C 2(TSL7) R 193 R 87 C 6(65) R 36 TD 500

GL 6600 R 64 C 6(65) R 118 C 7(64) R 301 C 2(60-B) R 2 TD 500

GL 6640 R 113 C 4(64) R 300 C 2(60-B) R 73 C 2(L) R 6 TD 500

GL 6890 R 69 C 3(TSL12) R 191 C 1(L) R 26 C 1(L) R 59 TD 350

GL 6735 R 31 C 2(60-B) R 268 C 4(59) R 91 C 3(58) R 143 C 3(56) R 4 C 1(56) R 250 TD 800

GL 6775 R 510 C 5(65) R 185 TD 700

GL 6970 R 82 C 3(TSL11) R 265 TD 350

GL 6950 R 30 C 4(BB) R 66 TD 100

GL 7060 R 251 C 2(66) R 267 TD 520

GL 7005 R 31 C 5(BB) R 64 TD 100

GL 7160 R 279 C 2(66) R 269 TD 550

GL 7107 NR 60 R 50 C 8(L) R 24 C 6(BB) R 269 C 4(66) R 71 C 3(L) R 10,198 TD 10,693

29 GL 7140 R 265 C 5(L) R 180 TD 450

GL 7110 R 117 C 5(BB) R 311 C 1(L) R 4 C 1(L) R 11 TD 450

GL 7070 R 47 C 2(66) R 451 TD 500

GL 6710 R 220 C 4(38) R 39 C 5(37) R 233 C 4(L) R 123 C 2(31) R 2 C 7(31) R 47 C 6(29) R 108 TD 800

GL 6640 R 35 C 3(49) R 28 C 3(L) R 191 C 2(38) R 17 C 3(37) R 118 TD 400

GL 6555 R 215 C 3(51) R 258 C 6(50) R 118 TD 600

GL 6605 R 66 C 2(60-B) R 332 TD 400

GL 6795 R 318 C 7(65) R 133 C 2(64) R 90 TD 550

GL 6740 R 21 C 9(65) R 370 TD 400

GL 6820 R 272 C 4(65) R 350 C 2(60-B) R 122 TD 750

GL 6860 R 28 C 1(61-A) R 70 C 2(6)-B) R 331 C 2(59) R 16 TD 450

GL 6700 R 27 C 2(57) R 90 C 3(56) R 104 C 1(L) R 6 C 1(L) R 116 TD 350

GL 6865 R 450 C 2(L) R 298 TD 750

GL 6930 R 48 C 2(61-A) R 350 C 4(60) R 25 C 1(L) R 3 C 1(L) R 138 C 3(59) R 175 TD 750

RIMROCK PIT NO.2 (Inactive)

RIMROCK PIT No. 2 (Inactive)

RIMROCK PIT No. (Inactive)

RIMROCK PIT No. 3 (Inactive)

VANGARD MINE NO. 3

(Abandoned) VANGUARD MINE No. 1

SECTION 18 PIT (Active)

TSL 1 TSL 2 TSL 3 TSL 4 TSL 5 TSL 6 TSL 7 TSL 8 TSL 9 TSL 10 TSL 11 TSL 12 TSL 13 TSL 15

BB

T. 23 N. T. 22 N.

41°52′30″ 106°45′ 42°30″ (DANA) 4667 I SW 40′ 106°37′30″ 41°52′30″

(WALCOTT) 4667 IV SE (PASS BOTTOM) 4667 IV NE (ELMO) 4667 I NE (HANNA) 4667 I SE

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 1°08′ 20 MILS 14½° 258 MILS

UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

WYOMING
QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE TENMILE SPRING QUADRANGLE, CARBON COUNTY, WYOMING

BY

TEXAS INSTRUMENTS INCORPORATED

1978

EXPLANATION

16 ○ GL 6970 R 82 C 3(TSL11) R 265 TD 350

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

34 ● GL 7107 NR 60 R 50 C 8(L) R 24 C 6(BB) R 269 C 4(66) R 71 C 3(L) R 10,198 TD 10,693

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

GL–Ground level elevation
NR–No record
R–Rock interval
C–Coal interval
TD–Total depth

DRILL-HOLE DATA SYMBOLS

8 ——

*–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(*).

TSL15 = Tenmile Spring Lens 15
TSL14
TSL13
TSL12
TSL11
TSL10
TSL9
TSL8
TSL7
TSL6
BB = (67, 68, 69)
66
TSL1 = Tenmile Spring Lens 1
65
64
63
61
61-A
60-B
60
TSL5 = Tenmile Spring Lens 5
TSL4
TSL3
TSL2
59
58
57
56-A
56
53
52
51
50
49
38
37
36
31
29
BB = Brooks Bed
L = Local lens
TSL = Local bed identifier

COAL BED SYMBOLS AND NAMES

1.0 2.9/18.0 ——— 58

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.

U / D

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

STRIP MINE

UNDERGROUND MINE WORKINGS

ABANDONED UNDERGROUND MINE

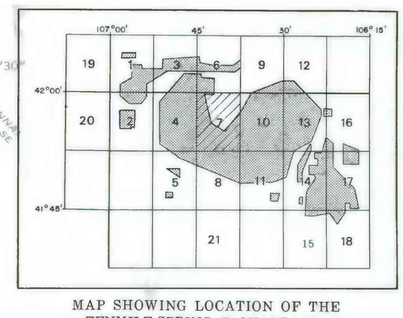
To convert feet to meters, multiply feet by 0.3048.

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 TENMILE SPRING (7) QUADRANGLE AND THE HANNA-CARBON BASINS KNOWN RECOVERABLE COAL RESOURCE AREA, WYOMING.

PLATE 1

COAL DATA MAP