UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STAR LAKE QUADRANGLE
NEW MEXICO
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 79-115
PLATE 1 OF 16

EXPLANATION

(18)
● GL 6767
NR 300
R 391
C 3(Me zone)
R 1206
C 2(Me zone)
R 28
C 2(Me zone)
R 1371
TD 3429

DRILL HOLE - Shown solid for oil and gas. Showing drill hole data, in feet. Index number refers to drill hole on Plate 3 of CRO map.

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

TEST HOLE AND MEASURED SECTION DATA SYMBOLS

Fr zone - Fruitland zone
Fr 2 - Fruitland 2 bed
Fr 1 - Fruitland 1 bed
Me zone - Menefee zone
L - Local bed

COAL BED AND COAL ZONE SYMBOLS AND NAMES

(36)
GL 6621
C 3.0 (Fr 2)
Fr 1

TRACE OF COAL BED OUTCROP - Showing symbol of name of coal bed. Showing coal thickness, in feet, measured at triangle. Index number refers to measured section on Plate 3 of CRO map. Arrow points toward the coal-bearing area. Trace of coal bed outcrop modified (from original data source) to fit modern topographic map, dashed where inferred.

BURNED AND CLINKERED COAL BED - Showing area of baked and fused rock (v symbol). Dotted line indicates inferred limit of burning.

FAULT - Dashed where approximately located; bar and bell on downthrown side.

To convert feet to meters, multiply feet by 0.3048.

NR is an average of 300 ft (91 m) of casing. Actual depth of casing not shown.

Parts of the Fruitland 1 outcrop have been inferred beyond known outcrop for purposes of establishing boundaries to compute the Reserve Base.

(29) GL 6836 NR 300 R 130 C 4(Fr 1) R 113 C 2(L) R 738 C 3(Me zone) R 80 C 2(Me zone) R 61 C 2(Me zone) R 57 C 2(Me zone) R 39 C 2(Me zone) R 13 C 2(Me zone) R 247 C 2(Me zone) R 816 C 2(Me zone) R 93 C 2(Me zone) R 7846 TD 10,558

(30) GL 6675 R 201 C 13(Fr 2) R 5.4 C 1.2(Fr 2) R 19.4 TD 240

(31) GL 6649 R 101.5 C 4.3(Fr 2) R 1.1 C 3.1(Fr 2) R 0.9 C 2.7(Fr 2) R 76.3 C 1.1(L) R 12.1 C 8.2(Fr 1) R 0.8 C 1.3(Fr 1) R 25.6 TD 239

(32) GL 6671 R 165.4 C 12.0(Fr 2) R 3.0 C 2.2(Fr 2) R 59.8 C 10.9(Fr 1) R 45.6 C 3.5(L) R 17.6 TD 320

(35) GL 6625 R 56.5 C 2.5(Fr 2) R 3.3 C 1.3(Fr 2) R 3.9 C 3.5(Fr 2) R 4.1 C 3.4(Fr 2) R 4.5 C 1.7(Fr 2) R 32 C 8.1(Fr 1) R 0.2 C 11.7(Fr 1) R 24.3 C 2.5(L) R 33.5 TD 197

(34) GL 6689 R 149.9 C 2.2(Fr 2) R 11.7 C 2.2(Fr 2) R 14.3 C 1.2(Fr 2) R 14.3 C 4.3(Fr 1) R 1.0 C 1.6(Fr 1) R 1.2 C 5.8(Fr 1) R 6.1 C 3.1(Fr 1) R 41.1 TD 260

(37) GL 6613 R 12 C 1.7(Fr zone) R 10.3 C 1.5(Fr zone) R 32 C 1.7(Fr 1) R 1.8 C 1.7(Fr 1) R 4.3 C 13.5(Fr 1) R 99.5 TD 180

(36) GL 6621 C 1.0 (Fr 2)

(38) GL 6634 R 27.6 C 1.5(Fr zone) R 10.7 C 5.5(Fr 1) R 1.2 C 2.5(Fr 1) R 1.3 C 8.3(Fr 1) R 1.7 C 7.2(Fr 1) R 32.5 TD 100

(39) GL 6636 R 52.6 C 4.3(Fr 1) R 0.6 C 4.0(Fr 1) R 1.3 C 7.7(Fr 1) R 0.8 C 0.8(Fr 1) R 4.1 C 2.8(Fr 1) R 1.0 C 6.6(Fr 1) R 123.4 TD 210

(33) GL 6657 R 82.3 C 1.7(Fr zone) R 81.3 C 3.3(Fr 1) R 6.7 C 3.3(Fr 1) R 2.1 C 4.3(Fr 1) R 75 TD 260

(40) GL 6661 R 87.9 C 1.1(Fr 1) R 31.1 C 0.9(Fr 1) R 4.0 C 5.0(Fr 1) R 3.8 C 1.0(Fr 1) R 4.7 C 3.3(Fr 1) R 26.5 C 2.7(L) R 29 TD 201

(41) GL 6663.2 R 117 C 1.6(Fr zone) R 13.2 C 1.0(Fr zone) R 6.1 C 3.0(Fr zone) R 17.1 C 4.5(Fr 1) R 31.8 C 5.2(Fr 1) R 2.2 C 3.1(Fr 1) R 37.5 C 3.5(L) R 13.2 TD 260

(12) GL 6738 R 11.2 C 4.4(Fr 1) R 0.8 C 0.7(Fr 1) R 1.1 C 1.0(Fr 1) R 3.0 C 2.1(Fr 1) R 0.7 C 3.4(Fr 1) R 2.0 C 5.8(Fr 1) R 3.2 C 1.3(Fr 1) R 16.3 TD 57

(11) GL 6714 R 45.8 C 1.2(Fr 1) R 0.5 C 4.9(Fr 1) R 0.7 C 3.4(Fr 1) R 1.1 C 6.7(Fr 1) R 1.2 C 1.5(Fr 1) R 2.5 C 9.5(Fr 1) R 91 TD 170

(14) GL 6760 R 2.2 C 2(Fr 1) R 10.3 C 1.4(Fr 1) R 0.7 C 3.8(Fr 1) R 5.2 C 0.9(Fr 1) R 33.5 TD 60

(15) GL 6661 R 17.5 C 5.9(Fr 1) R 20.6 C 9.5(Fr 1) R 4.0 C 2.0(Fr 1) R 45.5 TD 105

(10) GL 6669 R 22.3 C 4.4(Fr zone) R 25 C 3.3(Fr 1) R 30.9 C 8.7(Fr 1) R 45.4 TD 140

(9) GL 6673 C 3.0 (Fr 1)

(8) GL 6690 R 48.2 C 2.7(Fr zone) R 19.9 C 5.4(Fr zone) R 11.8 C 4.8(Fr zone) R 12.6 C 2.6(Fr 1) R 1.3 C 6.4(Fr 1) R 1.3 C 3(Fr 1) R 29.6 C 2.1(L) R 18.3 TD 170

(16) GL 6666 R 11.6 C 4.2(Fr 1) R 24.7 C 2.0(Fr 1) R 1.8 C 5.5(Fr 1) R 0.4 C 11.5(Fr 1) R 28.3 TD 90

(4) GL 6612 NR 300 R 536 C 3(Me zone) R 77 C 2(Me zone) R 127 C 2(Me zone) R 918 C 5(Me zone) R 95 C 2(Me zone) R 110 TD 2177

(5) GL 6620 NR 300 R 305 C 2(Me zone) R 218 C 2(Me zone) R 38 C 3(Me zone) R 60 C 2(Me zone) R 115 C 4(Me zone) R 835 C 2(Me zone) R 93 C 2(Me zone) R 2729 TD 4710

(2) GL 6609 NR 300 R 1732 C 3(Me zone) R 1408 TD 3443

(3) GL 6608 NR TD 2123

(1) GL 6646 NR 300 R 491 C 4(Me zone) R 58 C 5(Me zone) R 48 C 2.5(Me zone) R 442.5 C 3(Me zone) R 698 C 3(Me zone) R 99 TD 2154

(6) GL 6610 NR 300 R 298 C 2(Me zone) R 55 C 3(Me zone) R 241 C 3(Me zone) R 28 C 2(Me zone) R 63

(7) GL 6615 NR 300 R 512 C 2(Me zone) R 1129 TD 1943 C 3(Me zone) R 54 C 2(Me zone) R 744 C 3(Me zone) R 29 C 2(Me zone) R 2537 TD 4369

(17) GL 6692 NR 300 R 482 C 5(Me zone) R 86 C 6(Me zone) R 29 C 3(Me zone) R 1191 C 3(Me zone) R 39 C 3(Me zone) R 60 C 3.5(L) R 2226.5 TD 4437

(18) GL 6767 NR 300 R 191 C 3(Me zone) R 123 C 3(Me zone) R 1206 C 2(Me zone) R 28 C 2(Me zone) R 1371 TD 3429

(20) GL 6869 NR 300 R 1890 C 3(Me zone) R 2263 TD 4456

(19) GL 6800 NR TD 3393

(13) GL 6778 R 8.1 C 3.2(Fr 1) R 0.9 C 2.7(Fr 1) R 1.6 C 7.3(Fr 1) R 1.6 C 6.6(Fr 1) R 8 TD 48

(21) GL 6767 NR 300 R 189 C 3 (Fr 1) R 828 C 2 (Me zone) R 57 C 2 (Me zone) R 101 C 2 (Me zone) R 143 C 2 (Me zone) R 36 C 2 (Me zone) R 991 C 2 (Me zone) R 73 C 2 (Me zone) R 46 C 2 (Me zone) R 121 TD 2896

(27) GL 6764 NR TD 2888

(28) GL 6729 NR TD 2830

(26) GL 6729 NR TD 2860

(22) GL 6733 NR 300 R 151 C 2(Fr 1) R 834 C 3(Me zone) R 56 C 3(Me zone) R 123 C 2(Me zone) R 47 C 2(Me zone) R 31 C 4(Me zone) R 15 C 2(Me zone) R 1095 C 2(Me zone) R 206 TD 2878

(23) GL 6772 NR 300 R 225 C 2(Fr 1) R 828 C 2(Me zone) R 167 C 2(Me zone) R 28 C 4(Me zone) R 43 C 2(Me zone) R 1160 C 2(Me zone) R 26 C 2(Me zone) R 142 TD 2935

(24) GL 6769 NR 300 R 203 C 3(Fr zone) R 23 C 2(Fr 1) R 826 C 2(Me zone) R 30 C 2(Me zone) R 108 C 2(Me zone) R 36 C 4(Me zone) R 73 C 3(Me zone) R 23 C 2(Me zone) R 4 C 2(Me zone) R 1014 C 2(Me zone) R 334 TD 2998

(25) GL 6742 NR 300 R 71 C 3(Fr zone) R 9 C 2(Fr zone) R 81 C 2(Fr zone) R 12 C 3(Fr 1) R 838 C 2(Me zone) R 133 C 2(Me zone) R 64 C 2(Me zone) R 56 C 2(Me zone) R 35 C 2(Me zone) R 285 C 2(Me zone) R 511 C 2(Me zone) R 176 C 2(Me zone) R 161 C 2(Me zone) R 45 TD 2803

Base from U.S. Geological Survey, 1961

Compiled in 1979

SCALE 1:24 000

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

APPROXIMATE MEAN DECLINATION, 1961

NEW MEXICO
QUADRANGLE LOCATION

COLORADO
NEW MEXICO
37°00' 30' 15' 108°00' 45' 30' 15' 107°00' 45'
45 30 15 36°00'

MAP SHOWING LOCATION OF THE STAR LAKE QUADRANGLE (SHADED) AND THE SAN JUAN BASIN KNOWN RECOVERABLE COAL RESOURCE AREA (STIPPLED), NEW MEXICO

This map was prepared under contract to the U.S. Geological Survey and has not been edited for conformity with Geological Survey editorial standards. Opinions and conclusions expressed herein do not necessarily represent those of the Geological Survey.

COAL RESOURCE OCCURRENCE MAP OF THE STAR LAKE QUADRANGLE, MC KINLEY AND SANDOVAL COUNTIES, NEW MEXICO

BY
DAMES & MOORE
1979

PLATE 1
COAL DATA MAP