4357 I (HEIFER POINT)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

YOUNGS LAKE QUADRANGLE
NEW MEXICO-SAN JUAN CO.
7.5 MINUTE SERIES (TOPOGRAPHIC).

4357 II (LA PLATA)

OPEN FILE REPORT 79-1114
PLATE 1 OF 12

108°22'30" 20' (PURGATORY CANYON) 17'30" 108°15'
36°52'30"

T. 31 N.
T. 30 N.

R. 15 W. R. 14 W. R. 13 W.

(WATERFLOW) (FARMINGTON NORTH)

47'30"

T. 30 N.
T. 29 N.

36°45'

EXPLANATION

(9) ● GL 5520
NR 300
R 633
C 5 (Fr 3)
R 110
C 10 (Fr 1)
R 4299
TD 5357

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

(25) GL 5563
C 2.0(Fr 3)
R 0.7
C 3.8(Fr 3)
R 0.3(Fr 3)
C 2.1(Fr 3)
R 0.2
C 3.3(Fr 3)
R NRE
C 1.4(Fr 1)
R 0.2
C 3.5(Fr 1)

LINE OF MEASURED SECTION - Showing rock interval and coal thickness, in feet. Index number refers to measured section on Plate 3 of CRO map

GL - Ground level elevation
NR - No record
NRE - No record of lithology, thickness estimated
R - Rock interval
C - Coal interval
TD - Total depth

TEST HOLE AND MEASURED SECTION DATA SYMBOLS

Fr zone - Fruitland zone
Fr 3 - Fruitland 3 bed
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

(21) GL 5643
C 3.5 (Fr 1)
R 3.5
C 1.1 (Fr 1)
Fr 1

TRACE OF COAL BED OUTCROP - Showing symbol of name of coal bed. Showing rock interval and 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.

To convert feet to meters, multiply feet by 0.3048.

Parts of the Fruitland 1, Fruitland 2, and Fruitland 3 outcrop have been inferred beyond known outcrop for purposes of establishing boundaries to compute the Reserve Base.

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

(31) GL 5480
C 1.0(Fr 3)
R 0.3
C 0.3(Fr 3)
R 0.2
C 0.3(Fr 3)
R 0.2
C 1.0(Fr 3)
R 1.2
C 1.2(Fr 3)
R 48.0
C 2.8(Fr 2)
R 0.2
C 3.5(Fr 2)

(28) GL 5550
NR 133
R 270
C 5(Fr 3)
R 74
C 6(Fr 1)
R 14
C 3(L)
R 2471
C 3(Me zone)
R 1611
TD 4590

(27) GL 5545
C 3.5(Fr 2)
R 0.2
C 3.1(Fr 2)
R 23.0
C 1.4(Fr 1)
R 0.2
C 2.6(Fr 1)

(26) GL 5560
C 2.8(Fr 2)
R 1.0
C 3.7(Fr 2)

(25) GL 5543
C 2.0(Fr 3)
R 0.7
C 3.8(Fr 3)
R 0.3
C 2.1(Fr 3)
R 0.2
C 3.3(Fr 3)
R NRE
C 1.4(Fr 1)
R 0.2
C 3.5(Fr 1)

(24) GL 5560
C 0.4(Fr 2)
R 0.7
C 3.4(Fr 2)
R 20.6
C 6.0(Fr 1)

(21) GL 5643
C 3.5(Fr 1)
R 3.5
C 1.1(Fr 1)

(23) GL 5570
C 1.6(Fr 2)
R 0.3
C 1.1(Fr 2)
R 0.2
C 0.8(Fr 2)
R 0.2
C 2.8(Fr 2)
R 0.8
C 0.7(Fr 2)

(22) GL 5600
C 0.9(Fr zone)
R 2.6
C 1.1(Fr 1)
R 76.4
C 1.8(Fr 2)
R 0.3
C 0.7(Fr 2)
R 0.2
C 1.8(Fr 2)
R 0.7
C 1.3(Fr 2)
R 0.7
C 0.6(Fr 2)

(20) GL 5620
C 0.6(Fr 2)
R 0.4
C 0.8(Fr 2)
R 0.2
C 0.5(Fr 2)
R 0.2
C 2.7(Fr 2)
R 0.4
C 0.8(Fr 2)
R NRE
C 1.6(Fr 1)
R 0.4
C 0.2(Fr 1)
R 0.2
C 2.8(Fr 1)

(30) GL 5688
NR 300
R 1092
C 7(Fr 3)
R 91
C 5(Fr 1)
R 4950
TD 6445

(29) GL 5626
NR 300
R 756
C 3(Fr 3)
R 103
C 5(Fr 1)
R 126
TD 1293

(5) GL 5589
NR 143
R 702
C 6(Fr 3)
R 131
C 7(Fr 1)
R 1727
C 6(Me zone)
R 2349
TD 5071

(4) GL 5877
NR 300
R 1223
C 4(Fr 3)
R 102
C 3(Fr 1)
R 4900
TD 6532

(6) GL 5375
NR 145
R 445
C 6(Fr 3)
R 50
C 2(Fr 2)
R 69
C 8(Fr 1)
R 90
TD 815

(7) GL 5898
NR 300
R 1247
C 6(Fr 3)
R 60
C 5(Fr 1)
R 4870
TD 6488

(15) GL 5319
NR 126
R 384
C 2(Fr 2)
R 44
C 6(Fr 1)
R 102
TD 664

(8) GL 6040
NR 300
R 1296
C 7(Fr 3)
R 100
C 11(Fr 1)
R 4849
TD 6563

(16) GL 5310
R 537
C 6(Fr 3)
R 115
C 13(Fr 1)
R 32
TD 703

(17) GL 5365
R 646
C 7(Fr 3)
R 109
C 25(Fr 1)
R 23
TD 810

(9) GL 5520
NR 300
R 633
C 5(Fr 3)
R 110
C 10(Fr 1)
R 4299
TD 5357

(10) GL 5849
NR 300
R 1188
C 2(Fr 3)
R 88
C 2(L)
R 15
C 246(Fr 1)
R 4745
TD 6346

(18) GL 5450
NR 300
R 427
C 5(Fr 3)
R 79
C 2(Fr 2)
R 15
C 8(Fr 1)
R 172
TD 1008

(19) GL 5450
R 488
C 1(L)
R 31
C 7(Fr 3)
R 88
C 5(Fr 2)
R 10
C 12(Fr 1)
R 81
TD 723

(12) GL 5492
NR 300
R 626
C 6(Fr 3)
R 42
C 2(Fr 2)
R 46
C 13(Fr 1)
TD 1035

(11) GL 5408
NR 300
R 721
C 2(Fr 3)
R 79
C 9(Fr 1)
R 7
C 3(L)
R 1679
C 6(Me zone)
R 3216
TD 6020

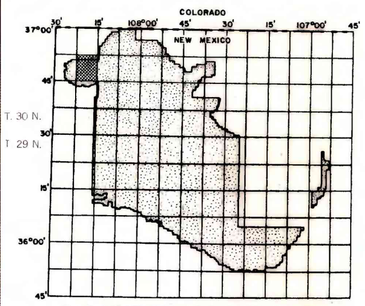
(14) GL 5583
NR 300
R 854
C 4(Fr 1)
R 1
C 5(Fr 1)
R 6
C 3(L)
R 1689
C 3(Me zone)
R 3220
TD 6085

(13) GL 5445
NR 300
R 506
C 7(Fr 3)
R 57
C 3(Fr 2)
R 24
C 13(Fr 1)
R 2593
TD 3503

(3) GL 5372
NR 300
R 356
C 6(Fr 3)
R 42
C 3(Fr 2)
R 30
C 8(Fr 1)
R 4925
TD 5670

(2) GL 5514
NR 300
R 815
C 6(Fr 1)
R 9
C 4(L)
R 4781
TD 5915

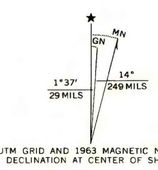
(1) GL 5550
NR 300
R 816
C 4(Fr 3)
R 91
C 7(Fr 1)
R 7
C 3(L)
R 4098
TD 5326



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

Base from U.S. Geological Survey, 1963

Compiled in 1979



UTM GRID AND 1963 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

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

QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE YOUNGS LAKE QUADRANGLE, SAN JUAN COUNTY, NEW MEXICO

BY

DAMES & MOORE

1979

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.

PLATE 1
COAL DATA MAP