Five Preliminary Maps of Kit Carson County, Colorado
Showing the Depth to the Water Table in the Principal Aquifer,
Altitude of the Water Table, Saturated Thickness of the Principal Aquifer,
Altitude of the Surface of the Pierre Shale, and Depth to the Pierre Shale

by
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U.S. Geological Survey
Open-File Report 56-25
Kit Carson County, Colorado

Suggested title, explanation, credit lines etc. for preliminary map No. 1

Upper left-hand corner: UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Lower left-hand corner: Base modified from maps prepared by the Soil Conservation Service

Lower right-hand corner: Hydrology by George H. Chase
Compiled by Verle M. Burtis

Upper right-hand corner: Preliminary Map No. 1

Top center: PREPARED IN COOPERATION WITH THE COLORADO WATER CONSERVATION BOARD

Title: PRELIMINARY MAP NO. 1 OF KIT CARSON COUNTY, COLORADO, SHOWING DEPTH TO WATER TABLE IN PRINCIPAL AQUIFER, 1954-55, AND LOCATION OF WELLS AND SPRINGS FOR WHICH DATA WERE OBTAINED (Subject to revision)

EXPLANATION

--- 100 ---

Isobath lines drawn through points of equal depth to water, 1954-55. Contour interval 50 feet.

○ Domestic or stock well

☉ Municipal well

⊙ Irrigation well

☆ Observation wells

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Cased test well
Uncased test hole, temporary test or supply well.

O 155.7 O 155.7 [305.1] 305.1 K
Upper number indicates depth to water; lower number indicates total depth of well, in feet. Brackets indicate that analysis of water from well was made; "K" indicates that only electrical conductivity and concentration of chloride were determined.

O 150.(Dry)
Dry, or obstructed well, 1954-55. Number indicates greatest depth reached.

Wells destroyed after measurements or other data were obtained.

Spring

Oil test

Cutcrop of Pierre shale in sides of valleys of South Fork of Republican River and Big Sandy Creek

Depression in land surface, usually solution hollow.
Suggested title, explanation, credit lines etc. for preliminary map No. 2

Upper left-hand corner: UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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Top center: PREPARED IN COOPERATION WITH THE COLORADO WATER CONSERVATION BOARD

Title: PRELIMINARY MAP NO. 2 OF KIT CARSON COUNTY, COLORADO, SHOWING CONTOURS ON THE WATER TABLE, 1954-55, AND LOCATION OF WELLS AND SPRINGS FOR WHICH DATA WERE OBTAINED (Subject to revision)

EXPLANATION

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Contour line on water table, 1954-55

Numbers indicate altitude of water table above mean sea level. Contour interval 20 feet.

○ Domestic or stock well

○ Municipal well

○ Irrigation well
Observation wells

Cased test well

Uncased test hole, temporary test or supply well

4553.1
Number indicates altitude of water table above mean sea level.

4555(Dry)
Dry or obstructed well, 1954-55. Number indicates altitude above mean sea level of greatest depth reached.

Wells destroyed after measurements on other data were obtained.

Spring

Oil test

Depression in land surface, usually solution hollow

Scale
Suggestions for title, explanation, credit lines etc. for Preliminary Map No. 3

Title: PRELIMINARY MAP NO. 3 OF KIT CARSON COUNTY, COLORADO, SHOWING SATURATED THICKNESS OF PRINCIPAL AQUIFER, 1954-55 (Subject to revision)

EXPLANATION

--- 40 ---

Isopach lines drawn through points of equal saturated thickness above Pierre shale, 1954-55, dashed where approximate, dotted where inferred. Contour interval 20 feet.

O  Domestic or stock well

©  Municipal well

©  Irrigation well

O  Cased test well

-  Uncased test hole, temporary test or supply well
Number indicates saturated thickness above Pierre shale, in feet, 1952-57.

Wells destroyed after measurements or other data were obtained.

Outcrop of Pierre shale in sides of valleys of South Fork of Republican River and Big Sandy Creek. Saturated thickness of the valley alluvium is variable but generally less than 20 feet.

Depression in land surface, usually solution hollow.
Suggestions for title, explanation, credit lines, etc. for Preliminary Map No. 4

Title: PRELIMINARY MAP NO. 4 OF KIT CARSON COUNTY, COLORADO, SHOWING CONTOURS ON THE SURFACE OF THE PIERRE SHALE AND CONTROL POINTS USED (Subject to revision)

EXPLANATION

Contour line drawn through points of equal altitude on the uppermost surface of the Pierre shale, weathered or unweathered, dashed where approximate. Datum is mean sea level. Contour interval 20 feet.

- Domestic well, stock well, or seismograph shot hole, for which depth to shale is known.

- Municipal well

- Irrigation well
Cased test well

Uncased test hole, temporary test or supply well

⊙3800 ○3800e

Number above line indicates altitude of unweathered or "blue" shale; number below line indicates altitude of weathered or "yellow" shale. Number without line indicates uppermost shale surface reported or noted, whether weathered or unweathered. An "e" after number indicates that exact depth to shale is not known but bottom of well is believed to be at or slightly below shale surface.

Depression in land surface, usually solution hollow.

Oil test

Scale

1 0 1 2 3 Miles
Suggestions for title, explanation, credit lines, etc. for Preliminary Map No. 6

Upper left-hand corner: UNITED STATES DEPARTMENT OF THE INTERIOR
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Upper right-hand corner: Preliminary Map No. 6


Top center: PREPARED IN COOPERATION WITH THE COLORADO WATER CONSERVATION BOARD

Title: PRELIMINARY MAP NO. 6 OF KIT CARSON COUNTY, COLORADO, SHOWING DEPTH TO THE SURFACE OF THE PIERRE SHALE (Subject to revision)

EXPLANATION

---200---

Lines drawn through points of equal depth to the uppermost surface of the Pierre shale, weathered or unweathered. Contour interval 50 feet.

○ Domestic well, stock well, or seismograph shot hole.

⊙ Municipal Well

⊙ Irrigation well

⊙ Cased test well
Uncased test hole, temporary test or supply well

Number indicates depth, in feet, to uppermost surface of the Pierre shale

Outcrop of Pierre shale in sides of valleys of South Fork of Republican River and Big Sandy Creek

Depression in land's surface, usually solution hollow.

Scale