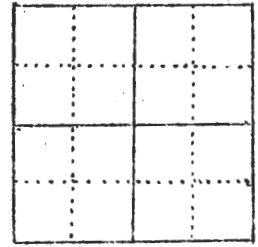


ICWA GEOLOGICAL SURVEY
In Cooperation with U. S. Geological Survey

W 8330

RECORD OF WELL



Location: 1 1/4 mi. N.

Town: SHELDON (NE)
(SW) : County O'BRIEN

SW NE NW 1/4 sec. 20 T. 97 N., R. 42 W. Twp.

Well name and number _____

Owner CITY OF SHELDON Address _____

Tenant AT SHELDON AIRPORT Address _____

Contractor ADOLPH BLIEK Address ROCK VALLEY, IOWA

Drillers _____

Drilling dates MAY 1957

Well data:

Altitudes: Drilling curb _____ feet; Land surface 1414 feet

Determined by altimeter (Robert Taland)

Topographic position _____

Total depth: Reported 532 feet, Measured _____ feet

Drilling method _____

Hole and casing data _____

Original depth to water 300 ft. ^{above} DEPTH OF WML _{below} Date _____

Source of data _____

Sources of water: Principal _____

Others _____

Production Data

Date _____
 Static water level _____
 Measuring point _____
 Pumping water level _____
 Yield (g. p. m.) _____
 Duration of pumping _____
 Specific capacity _____

Pump Data

Type pump _____ Column diameter and length _____
 Cylinder or bowls diameter and length _____
 Suction pipe _____ Airline _____
 Power _____ Production _____ g. p. m. for _____ hours per day
 Use of water _____

Dissolved constituents and properties (in parts per million except as indicated)

Date sampled _____
 Sampled by _____
 Silica (SiO₂) _____
 Iron (Fe) _____
 Manganese (Mn) _____
 Calcium (Ca) _____
 Magnesium (Mg) _____
 Potassium (K) _____
 Sodium (Na) _____
 Carbonate (CO₃) _____
 Bicarbonate (HCO₃) _____
 Sulfate (SO₄) _____
 Chloride (Cl) _____
 Fluoride (F) _____
 Nitrate (NO₃) _____
 Dissolved solids _____
 Hardness (as CaCO₃) _____
 Total _____
 Grains per gallon _____
 Noncarbonate _____
 Alkalinity (as CaCO₃) _____
 pH _____
 Specific conductance _____
 (micromhos at 25°C) _____
 Temperature (°F) _____
 Analysis No. _____

Laboratory Data

Well No. **W 8330** Sample range 0 - 532 No. of samples 53
 No. of dupls. and cond. 0 Insufficient sample Washed range _____
 Samples prepared by V. Dow Date 6/12/57
 Logged by Nonrup Date 9/29/57
 Correlations by _____ Date 9/29/57

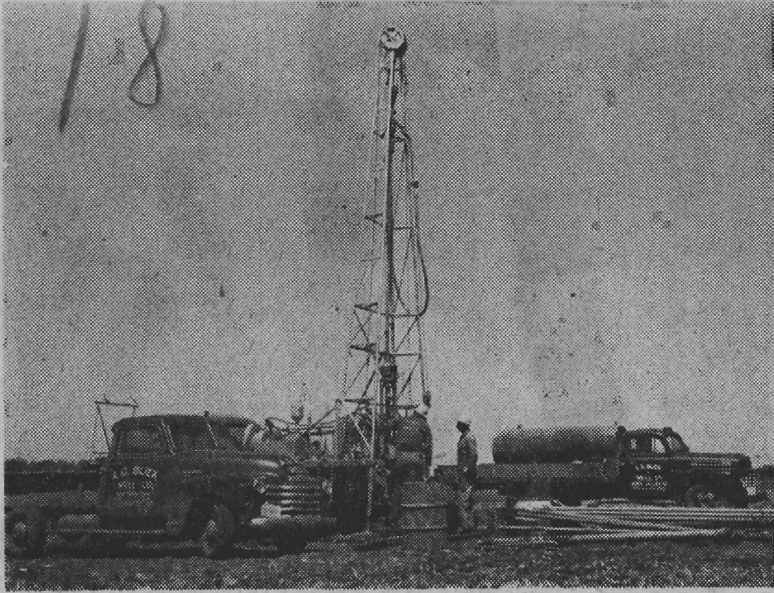
Sheldon (O'Brien)

IOWA PRESS
CLIPPING BUREAU
Des Moines, Iowa

Sun
Sheldon, Iowa
MAY 8 - 1957

Sheldon, Iowa
MAY 8 - 1957

532 Foot Well At Airport



The new well completed at the Sheldon Airport Saturday, May 4, under the improvement plan now underway at the airport, is shown above.

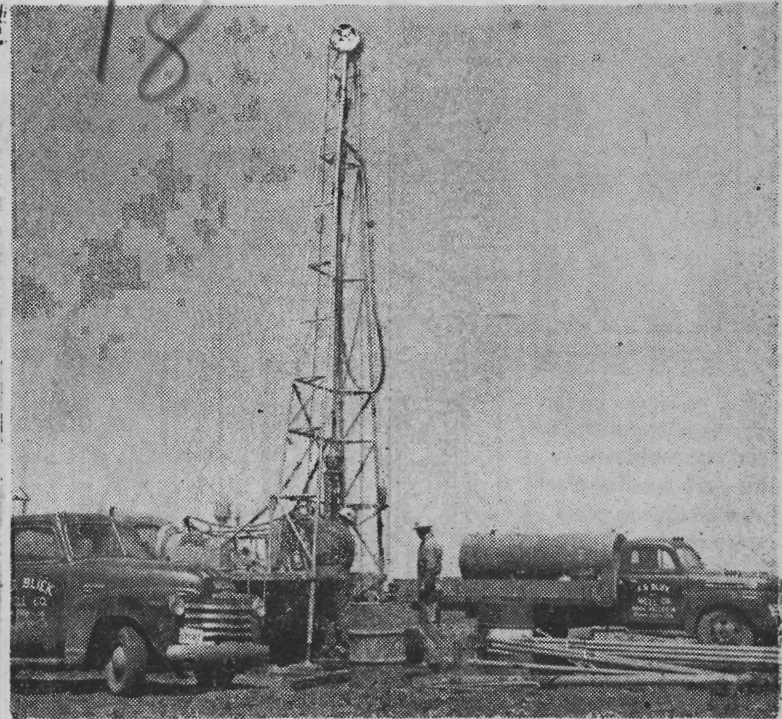
A 4-inch cased well, it was drilled to a depth of 532 feet into the strata of sandstone which comes from the watershed of the Black Hills. Specifications call for the well to produce 385 gallons of water per hour.

Drillers of this type of well take samples of the drillings every 5 feet as the drill goes down and send them to Ames where geologists use them to plot the underground water and make maps of the water bearing areas underground.

The well was drilled by the Blik Well Co. of Rock Valley under sub-contract to Tom De Jong Construction Co. of Alton, the prime contractor for the new administration building at the airport.

The men working as shown in the photo are: Adrian Blik, left and Gary Van Beek, right.

Four-Inch 532-Foot Well Drilled At Site of New Sheldon Airport



A four-inch cased well, drilled to a depth of 532 feet, has been completed at the new Sheldon Airport as a part of the improvement plan now under way.

In the accompany photo, Adrian Blik (left) and Gary Van Beek are shown as the well was dug. The Blik Well co. of Rock Valley did the job under sub-contract to Tom De Jong, Alton, general contractor.

Specifications call for the well to produce 385 gallons of water per hour. It was drilled into the strata of sandstone which comes from the watershed in the Black Hills. Drillers of this type of well take samples of the drilling every five feet as the drill goes down and these are sent to Ames where geologists use them to plot the underground water and make up maps of the water bearing areas underground.

U. S. DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Water Resources Division Well Schedule Form

MASTER CARD

Record by P.J. Horick Source of data Files Date 6/7/65 Map H&T

State Iowa County (or town) O'Brien Sequential number: 717

Latitude: 43° 12' 42" N Longitude: 09° 55' 01" W

Lat-long accuracy: 2" 97" S, 42" S Sec 20, SW 1/4, NE 1/4, NW 1/4 SPM

Local well number: 09747W20B9C Other number: W-R330

Local use: 08330 Owner of name: SHELDON AIRPORT

Owner or name: SHELDON AIRPORT Address: Sheldon, Iowa

Ownership: County, Fed Gov'r, (M) City, Corp or Co, Private, State Agency, Water Dist M

Use of (A) (C) (D) (E) (H) (I) (N) (P) (S) (T) (U) P

water: Air cond, Comm, Desalting, Fire, Dom, Irr, Ind, P S, Stock, Instit, Unused

Use of (A) (D) (G) (O) (F) (R) (S) (T) (U) (W) (X) (Z) W

well: Anode, Drain, Seismic, Obs, Oil-gas, Recharge, Spring, Test, Unused, Withdraw, Waste, Destroyed

DATA AVAILABLE: Well data 2 Freq. W/L meas.: INVENTORY 0 Field aquifer char. 0

Hyd. lab. data: 0

Qual. water data: type: 0

Freq. sampling: 0 Pumpage inventory: yes 0 no: period: 0

Aperture cards: 0

Log data: GEOLOGIST LOG

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 532 ft 532 Meas. (M) accuracy 0

Depth cased: (first perf.) 0 ft Casing type: 0 ; Diam. 4 in 4

Finish: porous gravel w. gravel w. horiz. open perf., screen, sd. pt., shored, open hole, concrete, (perf.), (screen), gallery, end, other 0

Method (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (Z) H

Drilled: air bored, cable, dug, hyd jetted, air reverse trenching, driven, drive rot., percussion, rotary, wash, other

Date Drilled: MAY 1957 9:57 Pump intake setting: 0 ft

Driller: A.G. Bliet, Rock Valley, Iowa

Power (A) (B) (C) (L) (M) (S) (P) (R) (S) (T) (Z) D Deep 0 Shallow 0

(type): air, bucket, cent, jet, (concr.) (concr.) none, piston, rot, submerg, turb, other

Power (type): diesel, elec, gas, gasoline, hand, saw, wind, H.P. 0 Trans. or meter no. 0

Descrip. MP LSD above 0 ft below 0 lsd, Alt. MP 1414

Alt. LSD: 1414 1414 Accuracy: (source) ALTIMETER 0

Water level 300 ft above 0 MP; 0 ft below 0 MP; 30 Accuracy: DRILLER'S LOG 0

Date meas: MAY 1957 5:57 Yield: 0 gpm 0 Method D

Drawdown: 0 ft Accuracy: 0 Pumping period: 0 hrs 0

QUALITY OF WATER DATA: Iron 0 Sulfate 0 Chloride 0 Hard. 0

Sp. Conduct 0 K x 10 0 Temp. 0 0 0 0

Taste, color, etc. 0

Well Number 43.12.42^N095^S50.10.1
d m s d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: CENTRAL LOWLAND 1:2 Section: WESTERN

LAKE B Drainage Basin: LITTLE SIOUX 36C Subbasin: _____

Topo of well site: local depression, flat surface, hilltop, hillside, terrace, valley flat, _____

MAJOR AQUIFER: Cretaceous system Lower series R1 Dakota Sandstone aquifer, formation, group D1

Lithology: FINE SANDSTONE ZV Origin: MARINE G Aquifer Thickness: _____ ft

Length of well open to: _____ ft Depth to top of: 500 ft

MINOR AQUIFER: _____ system _____ series _____ aquifer, formation, group _____

Lithology: _____ Origin: _____ Aquifer Thickness: _____ ft

Length of well open to: _____ ft Depth to top of: _____ ft

Intervals Screened: _____

Depth to consolidated rock: 290 ft 290 Source of data: WELL CUTTINGS C

Depth to basement: _____ ft _____ Source of data: _____

Surficial material: RT Infiltration characteristics: POOR 4

Coefficient Trans: _____ gpd/ft² _____ Coefficient Storage: _____

Coefficient Perm: _____ gpd/ft²; Spec cap: _____ gpm/ft; Number of geologic cards: _____

