

ICWA GEOLOGICAL SURVEY
In Cooperation with U.S. Geological Survey
RECORD OF WELL

17181

Location:

Town: SANBORN (NE) County O'BRIEN

1977 field checked SW, SW, SE, NW, sec 33, T 97N, R 41W (SW)

Sec. 35, T. 97, N., R. 41 (W) FRANKLIN Twp.

Well name and number _____

Owner SANBORN TOWN WELL #3 (1964) Address SANBORN, IOWA

Tenant _____ Address _____

Contractor LAYNE-WESTON Co. Address AMES, IOWA

Drillers _____

Drilling dates 1964

Well data:

Altitudes: Drilling curb _____ feet; Land surface _____ feet

Topo Elev. 1495'

Determined by _____

Topographic position _____

Total depth: Reported 80 feet; Measured _____ feet

Drilling method ROTARY

Hole and casing data _____

Original depth to water _____ ft. above _____ below _____ Date _____

Source of data _____

Sources of water: Principal 60-80 - Sand and Gravel
Others _____

PRODUCTION DATA

Date _____
Static water level 55
Pumping water level 63
Yield (g.p.m.) 400 GPM
Measuring point _____
Duration of pumping _____
Specific capacity _____

LABORATORY DATA

17181 PLS-984
Well No. _____ Sample range 0-80 No. of samples 16
No. of dupls. and cond. No Washed range _____
Samples prepared by Kobes Date 1/6/65
Logged by NEATHUP Date 1/5/70
Correlations by _____ Date 1/5/70

GROUND WATER

Town Samborn County O'Brien Date November 12 1965

WELL NO. 3 Active Standby Abandoned Replaced by No.

LOCATION: Street 1 1/2 miles west of Samborn Sec. NW 1/4 Sec 33 T. 97 N.R. 41 East: West
Adjacent to the CMS&P R.R. Right of Way
on the south side. Lot. Block. Township Franklin

OWNERSHIP Municipal Date Installed August 25 1965

CONTRACTOR Hayne Western Address Ames, Iowa

DATE RECONDITIONED 19 Contractor Address

CONSTRUCTION EMPLOYED: Cement grout seal 0-30 ft., fine sand barrier 30-31 ft., gravel pack 31-80 ft.

CURB ELEVATION REFERENCE

TYPE OF CONSTRUCTION Drilled gravel packed Depth 80 ft. Diameter 12 in.

CASING: Material 49.6 #/ft. steel pipe Condition good

SCREEN: Material Length 20 ft. Diameter 12 in. Slot Opening in.

WELL SEALED Yes How Cement grout from 0-30 ft. Approved Yes

WELL VENTED Yes How 2 inch pipe Approved Yes

TYPE OF PUMP Turbine Make Jouppi Turbine Capacity 250 @ 310 ft. T.D.H. GPM Lubricated Water

DEPTH TO CYLINDER 6.0 ft. Tail Pipe 34 inches ~~34 inches~~ ft.

PUMP CONTROL: Manual Automatic Semi-Automatic

STATIC LEVEL 55 ft. ft. Pumping Level 63 ft. Drawdown 8 ft.

OPTIMUM SPECIFIC YIELD GPM Drawdown ft. Time hrs.

RATE OF DRAWDOWN Rate of Recovery

TEMPERATURE OF WATER 48 °F Where Measured Pump discharge Temp. of Atmosphere 35 °F

DRAWDOWN GAUGE INSTALLED

TOPOGRAPHICAL POSITION OF WELL

WELL SITE INVESTIGATED Yes Approved Yes Why not

WELL CONSTRUCTION REVIEWED Yes Approved Yes Why not

PIT CONSTRUCTION: Purpose Size and Description

CONDITION: Drainage Facilities

PUMP INSTALLATION: Approved Yes Why Not

CUTTINGS FROM WELL PRESERVED: Where

DEPTH TO BED ROCK Depth to Water-bearing Stratum

SOURCE OF WATER: Principal Formation Pleistocene Other ~~Cambrian~~

Total Hardness ppm. Total Iron ppm. Sulfates ppm. Fluorine ppm.

GEOLOGICAL DATA			CASING DATA	WELL DATA	
Formation	Material and distance from surface in ft.	Series	Position, kind and extent of casing, liners, shoes, etc.	Scale: Horizontal _____ Vertical _____	Position of seals, screens, static level, etc.
Pleistocene	Black Soil	0-1 ft.			
	& Yellow Clay	1-10 ft.			
	Yellow Clay and Rocks	10-14 ft.			
	Clay & Rock	14-15 ft.			
	Yellow Clay Some Rocks	15-24 ft.			
	Yellow Clay	24-31 ft.			
	Blue Clay	31-44 ft.			
	Blue Clay Sand	44-50 ft.			
	Blue Clay Rocks and Boulders	50-56 ft.			
	Sandy Blue Clay	56-59 ft.			
	Cemented Gravel Rocks	59-64 ft.			
	Coarse Sand and gravel cemented	64-79 ft.			
Blue Clay	79-86 ft.				