

WRD Exp. (GW)
April 1966

GW01894

Well No. B3

WELL SCHEDULE

U. S. DEPT. OF THE INTERIOR

GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

0510011-01

MASTER CARD

UNION EAST QUAD

PUNCHED and VERIFIED
ROLLA COMPUTATION BRANCH

Record by J. A. Callahan Source of data Layne Central Co Date 12-6-66 Map _____

State Miss 7 28 County (or town) Newton 51

Latitude: 32 34 00 N Longitude: 08 90 07 05 Sequential number: 1

Lat-long accuracy: 3 0 T. 8 N S, R 11 E W, Sec 1, SW 1/4, SE 1/4, NE 1/4

Local well number: 003 JA 010 8 N 1 E Other number: #3 City B & M

Local use: 004 Owner or name: City of Union

Owner or name: UNION Address: Union Miss

Ownership: County, Fed Gov't (C) (F) (M) (N) (P) (S) (W) MU City, Corp or Co, Private, State Agency, Water Dist 17

Use of water: (A) (B) (C) (D) (E) (F) (H) (I) (M) (N) (P) (R) SB MUWX Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, Stock, Instit, Unused, Reppure, Recharge, Desal-P S, Desal-other, Other P

Use of well: (A) (D) (G) (H) (I) (P) (R) (T) (U) (W) (X) (Z) W Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed

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

Hyd. lab. data:

Qual. water data; type: MSBON Complete 2-11-63

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

Aperture cards: yes

Log data: D

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 242 ft 242 Meas. drillers 3 accuracy

Depth cased: 192 ft 192 Casing type: steel; Diam. 16x10x8 in 1.6

Finish: (C) (F) (G) (H) (I) (P) (S) (T) (W) (X) (Z) S porous concrete, gravel w. (perf.), gravel w. (screen), horiz. open perf., sd. pt., shored, open hole, other

Method Drilled: (A) (B) (C) (D) (H) (J) (P) (R) (T) (V) (W) (Z) H air bored, cable, dug, rot, hyd, jetted, air percussion, rotary, reverse trenching, driven, drive wash, other

Date Drilled: 1-15-63 963 Pump intake setting: _____ ft _____

Driller: Layne Central Co, Jackson Miss

Lift (type): (A) (B) (C) (J) (L) (M) (N) (P) (R) (S) (T) (Z) 7 Deep D air, bucket, cent, jet, multiple, multiple, none, piston, rot, submerg, turb, other Shallow

Power (type): (nat) (elec) (LP) (H.P.) V Trans. or meter no. diesel, gas, gasoline, hand, gas, wind

Descrip. MP _____ ft above _____ ft below LSD. Alt. MP _____

Alt. LSD: 47.6 47.6 Accuracy: CI 10 47 4

Water Level: 93.18 1875-67 ft above _____ ft below MP; Ft below LSD 18.8 Accuracy: Measure! 52 A

Date meas: 1-19-63 Yield: _____ gpm 300 Method determined _____

Drawdown: _____ ft _____ Accuracy: _____ Pumping period _____ hrs _____

QUALITY OF WATER DATA: Iron 2.0 5 Sulfate 19.7 1 Chloride 5 6 Hard. 42 7

Sp. Conduct _____ K x 10⁶ _____ Temp. _____ °F 64 Date sampled _____ 263

Taste, color, etc. _____

Well No. 1

Well No. B3

Latitude-longitude 32.34.00^N 089.07.05^W

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: _____ Section: 03

Drainage Basin: 13P Subbasin: _____

Topo of well site: (D) depression, stream channel, dunes, flat, hilltop, sink, swamp, (E) (F) (H) (K) (L) (S) (T) (U) (V) offshore, pediment, hillside terrace, undulating, valley flat S

MAJOR AQUIFER: Tertiary system Eocene series TE aquifer, formation, group Wilcox McCloud MW

Lithology: Coarse sand 45 Origin: _____ 2 Aquifer Thickness: _____ ft

Length of well open to: _____ ft 50 Depth to top of: _____ ft 130

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: 8"

Depth to consolidated rock: _____ ft _____ Source of data: _____

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

Surficial material: Sandy Clay 8P Infiltration characteristics: Good 2

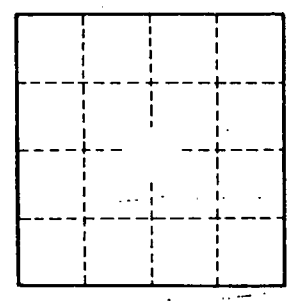
Coefficient Trans: 40000 gpd/ft 403 Coefficient Storage: 3x10⁻³ 305

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

180' of 16"
55' of 10"
50' of 8" no 8 shutter ss.

Yield 346 gpm @ 20'

- Top soil 1-1
- red sandy clay hard 9-10
- rock 1 11
- blue clay 7 15
- blue silt 2 20
- rock sand stb 5 25
- hard brittle clay 8 33
- hard rock 12 45
- hard brittle clay 11 56
- rock 3-59
- hard brittle clay 6-65
- hard rock soft stb 40-105
- hard blue shale 33 138
- sand 105 243
- clay 4 247



Well No.

B3

NEWTON
 B3
 9-13-63

MISSISSIPPI BOARD OF WATER COMMISSIONERS

WATER WELL DRILLERS LOG **CODED**

Date: 9-13-, 19 , Driller: Layne-Central Co. County Newton
 (Name)

(1) Owner of Land: Town of Union
 (Name)
Union, Mississippi
 (Address)

(2) Location: 1/4, 1/4, Sec. 1 T 8 R 1
 miles of
 (distance) (direction) (Nearest Town)

(3) Topography:
 (Hilly) (Flat) (Level)

(4) Purpose of Well: Municipal
 (Domestic Irrigation
 Municipal, Industrial, Other)

Description & Color of Materials Sand, Clay, Red Clay, Shell, etc.	Thick- ness Feet	Depth Feet
top soil	1	1
red sandy clay, hard	9	10
rock	1	11
blue clay	7	18
blue sand	2	20
rock, sand stks	5	25
hard brittle clay	8	33
hard rock	12	45
hard brittle clay	11	56
rock	3	59
hard brittle clay	6	65
hard rock, soft stks	40	105
hard blue shale	33	138
sand	105	243
clay	4	247

Information upon completion of well:

(1) Diameter 16" inches.

(2) Total Depth 242' feet.

(3) Water Level 90' feet below top of ground.

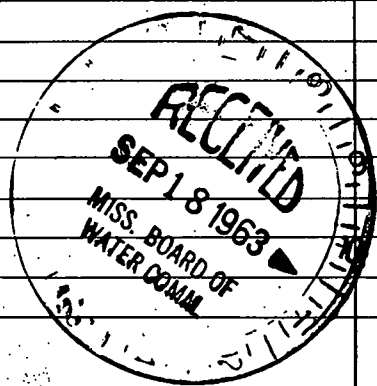
(4) Cased to 180', Size 16"

(5) Screen: Size 8", Length 50'

(6) Were any formations sealed against pollution?
 yes, no.
 YES depth of formation 180'
 required

Drillers Remarks:

CODED



(Use Back Side)

Well No.

Mail this copy to Board of Water Commissioners 429 Miss. St. Jackson, Mis

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): Stewart / Everett DATE: 4/22/98
UNIT DEQ #: _____ FILE #: A042222A
HEALTH DEPT. #: 510011-01 ELEV. 475'
USGS #: B-3 OLWR #: GW 01894
OWNER: Town of Union
LOCATION: SE NE S 1 T 8 N R 11 E COUNTY: Newton
LOCATION DESCRIPTION: At treatment plant on Front Street,
S/ of Main
CASING DIA: _____ PUMP TYPE & SIZE: Turbine
GPS FIELD LOCATION: LAT. 32° 34.283' LONG. 89° 07.327'
GPS CORRECTED LOCATION: LAT. 32.570554 LONG. 89.121888
REMARKS: Well is 40' E of GPS

32 34 14
89 07 19

**Department of Environmental Quality
Office of Land and Water Resources**

**Ground Water Permit
General Report**

Permit Number: MS-GW-01894

County: NEWTON

Owner: UNION, TOWN OF

Aquifer: MUWX

USGS No: B0003

BOH No: 0510011-01

Location: SE 1/4 of the NE 1/4 of SEC 01 TWN 08N RNG 11E **Lat:** 323414 **Long:** 890718⁹

Quad: UNION EAST

District: N/A

Date Issued: 11-MAR-86

Date Renewed: 09-APR-96

Date Expired: 11-MAR-06

Applicant: UNION, TOWN OF

Owner: UNION, TOWN OF

Address 1: 404 BANK STREET

Address 1: 404 BANK STREET

Address 2: N/A

Address 2: N/A

Address 3: N/A

Address 3: N/A

City: UNION

City: UNION

State: MS **Zip:** 39365

State: MS **Zip:** 39365

Driller: LAYNE CENTRAL

Maximum Rate: 400

Amount Withdrawn Acre feet: 0

Amount Withdrawn Mgd: 0

Use

STANDBY
MUNICIPAL

Casing

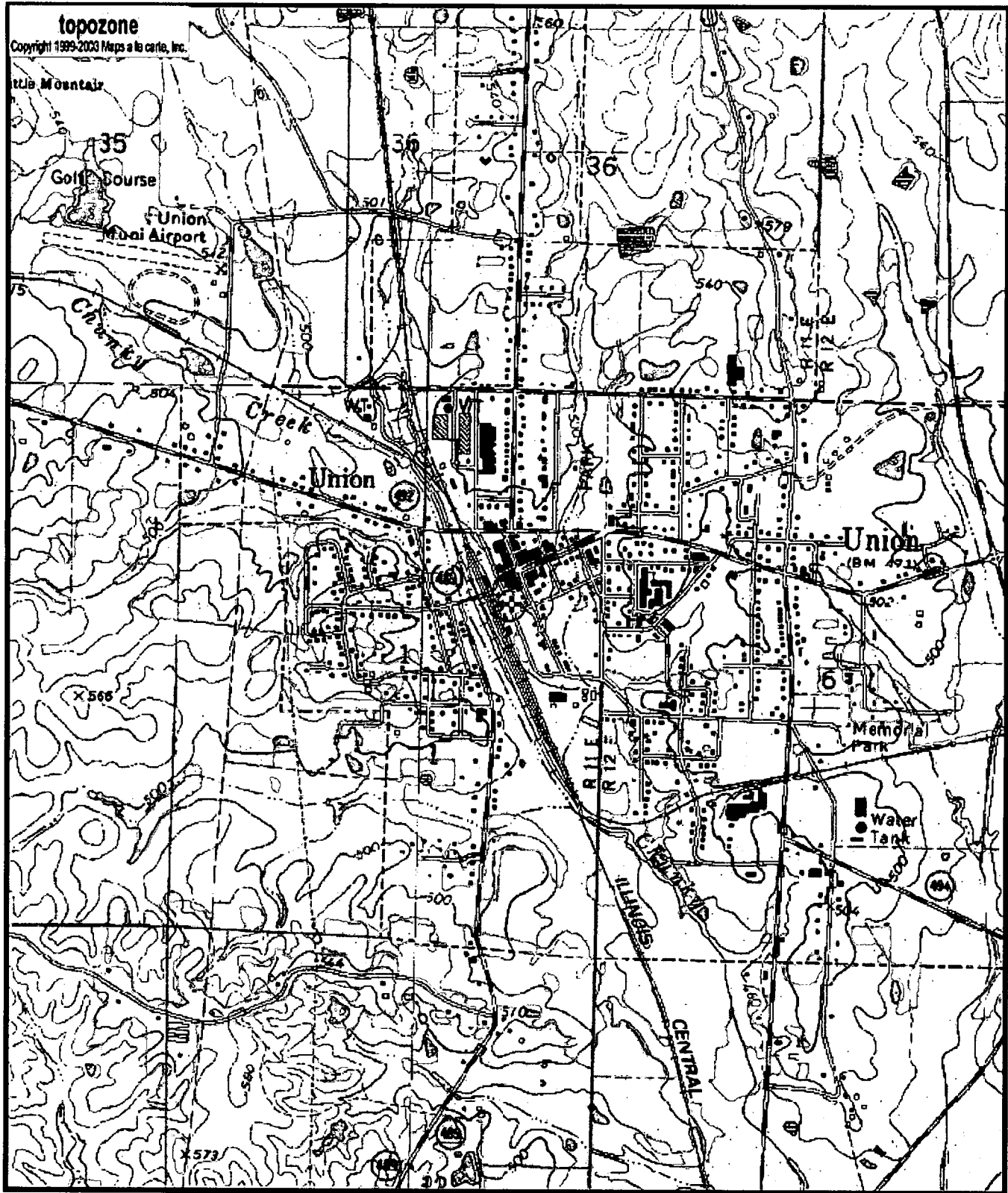
Type: STEEL
Diameter: 16
Length: 192

Screen

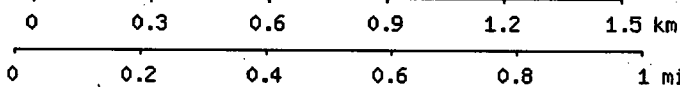
Type:
Diameter: 8
Length: 50

B3. Union WA. 510011-02. Newton Co. 4/24/2001





6101894
 0610011-01
 B3



Map center is 32° 34' 14"N, 89° 07' 19"W (WGS84/NAD83)
 Union East quadrangle
 Projection is UTM Zone 16 NAD83 Datum

M=-0.329
 G=-1.143

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Show Grid Lines

Change to Landscape

USGS Urior, Mississippi, United States 02 Mar 1996



0 10CM

0 10cyd

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