

0400001-03  
GW00932

FORM 9-1642  
(1-68)

Well No. K 16

WELL SCHEDULE E-109 # 30  
GEOLOGICAL SURVEY WATER RESOURCES DIVISION

U. S. DEPT. OF THE INTERIOR

K16

MASTER CARD

Bowc

Record by J. A. Callahan Source of data D-1 Lobs. Date 12/1/72 Map Carthage

State 28 County (or town) Leake 40

Latitude: 32<sup>44</sup>05<sup>N</sup> Longitude: 089<sup>31</sup>30 Sequential number: 1

Lat-long accuracy: 2<sup>T</sup> 10<sup>S</sup> 7<sup>R</sup> 12<sup>NE</sup> SE NE NE

Local well number: K016AA1210N07E Other number: 8 & M

Local use: 064030 Owner or name: City of Carthage

Owner or name: CARTHAGE Address: Army

Ownership: County, Fed Gov't, City, Corp or Co, Private, State Agency, Water Dist M

Use of water: Air cond, Bottling, Comm, Dewater, Power, Fire, Dom, Irr, Med, Ind, P S, Rec, Stock, Insitit, Unused, Repressure, Recharge, Desal-P S, Desal-other, Other P

Use of well: Anode, Drain, Seismic, Heat Res, Obs, Oil-gas, Recharge, Test, Unused, Withdraw, Waste, Destroyed. N

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

Hyd. lab. data:

Qual. water data; type:

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

Log data: E-109 660 D/E

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD Depth well: 611 Meas. rept. 3

Depth cased: 551 Casing type: 18x10 in 1:8

Finish: porous concrete, gravel v. (perf.), gravel v. (screen), horz. gallery, end, open perf., screen, sd. pt., shored, open hole, other 3

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

Date Drilled: 972 Pump intake setting: 33 ft 30

Driller: Layne Central name address T Deep 0 Shallow

Lift (type): air, bucket, cent, jet, multiple, multiple, none, piston, rot, submerg, turb, other T Deep 0 Shallow

Power (type): diesel, elec, gas, gasoline, hand, gas, wind; H.P. 100 V Trans. or meter no. 41

Descr. MP 362 above below LSD, Alt. MP 362

Alt. LSD: 360 Accuracy: (source) Top Cont I, 10 4

Water Level: 40 ft above below MP; Ft below LSD Accuracy: 40

Date meas: 9/1/72 972 Yield: 7000 gpm Method determined 00

Drawdown: 00 ft Accuracy: 00 Pumping period: 00 hrs 00

QUALITY OF WATER DATA: Iron 00 ppm Sulfate 00 ppm Chloride 00 ppm Hard. 00 ppm Sp. Conduct 00 K x 10 00 Temp. 00 °F Date sampled 00

K16  
x = .96  
(1986)

WELL NO. K16

K16

Latitude-longitude N  
S  
d m s

HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD Physiographic Province: 03 Section: \_\_\_\_\_

Drainage Basin: D 13T Subbasin: \_\_\_\_\_

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

MAJOR AQUIFER: system \_\_\_\_\_ series TE aquifer, formation, group M.W

Lithology: \_\_\_\_\_ Origin: 5 Aquifer Thickness: 90 ft

Length of well open to: 40 ft Depth to top of: 60 ft 530 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: \_\_\_\_\_ ft Source of data: \_\_\_\_\_

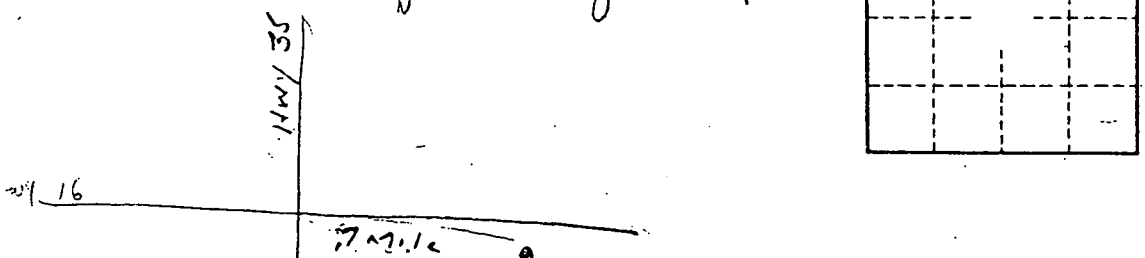
Depth to basement: \_\_\_\_\_ ft Source of data: \_\_\_\_\_

Surficial material: \_\_\_\_\_ Infiltration characteristics: \_\_\_\_\_

Coefficient Trans: \_\_\_\_\_ gpd/ft Coefficient Storage: \_\_\_\_\_

Coefficient Perm: \_\_\_\_\_ gpd/ft<sup>2</sup>; Spec cap: \_\_\_\_\_ gpm/ft; Number of geologic cards: \_\_\_\_\_

6" set 544'  
 o. of screen Bottom of screen 617'  
 63' of 10" Lap



Red clay	0	6
White Clay	6	17
White Sand	17	47
Sandy Clay	47	130
Clay	130	236
High Brittle Shale	236	285
Sand Shale	285	349
Hard Shale	349	397
Shale with tinctoria	397	450
Sandy Shale	450	518
Hard Shale	518	533
Sand	533	614
Shale Sand	614	656

MISSISSIPPI BOARD OF WATER COMMISSIONERS

416 North State Street  
Jackson, Mississippi 39201

WATER WELL DRILLERS LOG

**GOOD**

Eq # 30

KIL

LEAKE Co.

date well completed

1922 *August 22* *Leake Co. Driller*

county well located

to

description of formations encountered

6

6

17

47

130

236

285

349

397

450

518

533

614

656

614

533

518

450

397

349

285

236

180

47

17

6

6

17

47

130

236

285

349

397

450

518

533

LANDOWNER: *City of Carthage*

(mailing address) *Carthage, Miss*

WELL LOCATION: sec 12 T 10 N R 7 E

miles of (direction) (nearest town)

WELL PURPOSE: *Domestic* (home, irrigation, municipal, industrial)

WELL COMPLETION DATA

(1) diameter (inches) 18"

(2) total depth (feet) 617'

(3) static water level (feet) 46' below top of ground

(4) casing (material) (depth) Steel 544'

(5) screen (size) (length) (depth to top) 18" 60' 551'

(6) pump (HP) (yield gpm) 100 700

(7) electric log (type power) (year or no) *Electric* *1922*

(8) how well bottom plugged *Water*

(organization running log) *Water*

(year or no) *1922*

(type power) *Electric*

(HP) (yield gpm) *100* *700*

(material) (size) *10"* *60'*

(length) (depth to top) *60'* *551'*

(size) (length) (depth to top) *18"* *60'* *551'*

(HP) (yield gpm) *100* *700*

(type power) *Electric*

(year or no) *1922*

(organization running log) *Water*

(year or no) *1922*

(type power) *Electric*

(HP) (yield gpm) *100* *700*

(material) (size) *10"* *60'*

(length) (depth to top) *60'* *551'*

(size) (length) (depth to top) *18"* *60'* *551'*

(HP) (yield gpm) *100* *700*

(type power) *Electric*

1922

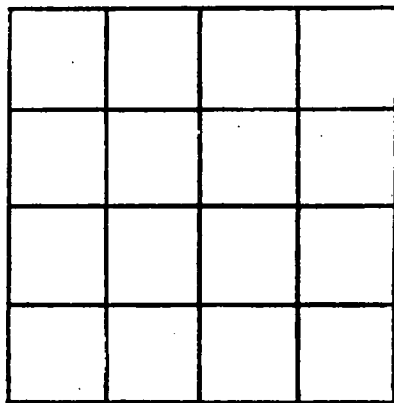
90

551' 10' 530

(Y)

If well telescopes please  
sketch and show depths.

GROUND LEVEL



SECTION \_\_\_\_\_

Please indicate well location X.

ADDITIONAL INFORMATION

If more than one screen,  
show locations of each on sketch.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): LAR / DUB DATE: 7/19/94  
UNIT DEQ #: 82859 FILE #: A071916A  
HEALTH DEPT. #: 400001-03 ELEV. 345  
USGS #: K16 OLWR #: GW00932  
OWNER: City of Carthage  
LOCATION: S 12 T 10 N R 7 E COUNTY: LEAKE  
LOCATION DESCRIPTION: NW corner of E. Main & W. M. chiefly St.  
white & brown pump house.  
CASING DIA: 16" PUMP TYPE & SIZE: Turbine / 60  
GPS FIELD LOCATION: LAT. 32-44-191 N LONG. 89-31-515 W  
GPS CORRECTED LOCATION: LAT. 32.731527 LONG. 89.531942  
REMARKS: East of National beach on Hwy 16, turn  
left on E. Main 1/2 mile from well #1  
on S. base.

Using 32.736392 89.524350

~~100.0106~~ 100.0105

32.73641 89.52440

Carthage Quad

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

**Ground Water Permit  
General Report**

**Permit Number: MS-GW-00932**

**County:** LEAKE

**Owner:** CARTHAGE, CITY OF

**Aquifer:** MUWX

**USGS No:** K0016

**BOH No:** 0400001-03

**Location:** NE 1/4 of the NE 1/4 of SEC 12 TWN 10N RNG 07E **Lat:** 324410 **Long:** 893128

**Quad:** CARTHAGE

**District:** N/A

**Date Issued:** 14-JAN-86

**Date Renewed:** 19-DEC-95

**Date Expired:** 14-JAN-06

**Applicant:** CARTHAGE, CITY OF

**Owner:** CARTHAGE, CITY OF

**Address 1:** 212 MAIN STREET

**Address 1:** 212 MAIN STREET

**Address 2:** N/A

**Address 2:** N/A

**Address 3:** N/A

**Address 3:** N/A

**City:** CARTHAGE

**City:** CARTHAGE

**State:** MS **Zip:** 39051

**State:** MS **Zip:** 39051

**Driller:** LAYNE CENTRAL COMPANY

**Maximum Rate:** 700

**Amount Withdrawn Acre feet:** 224.0638

**Amount Withdrawn Mgd:** .2

**Use**

MUNICIPAL

**Casing**

**Type:** STEEL

**Diameter:** 10

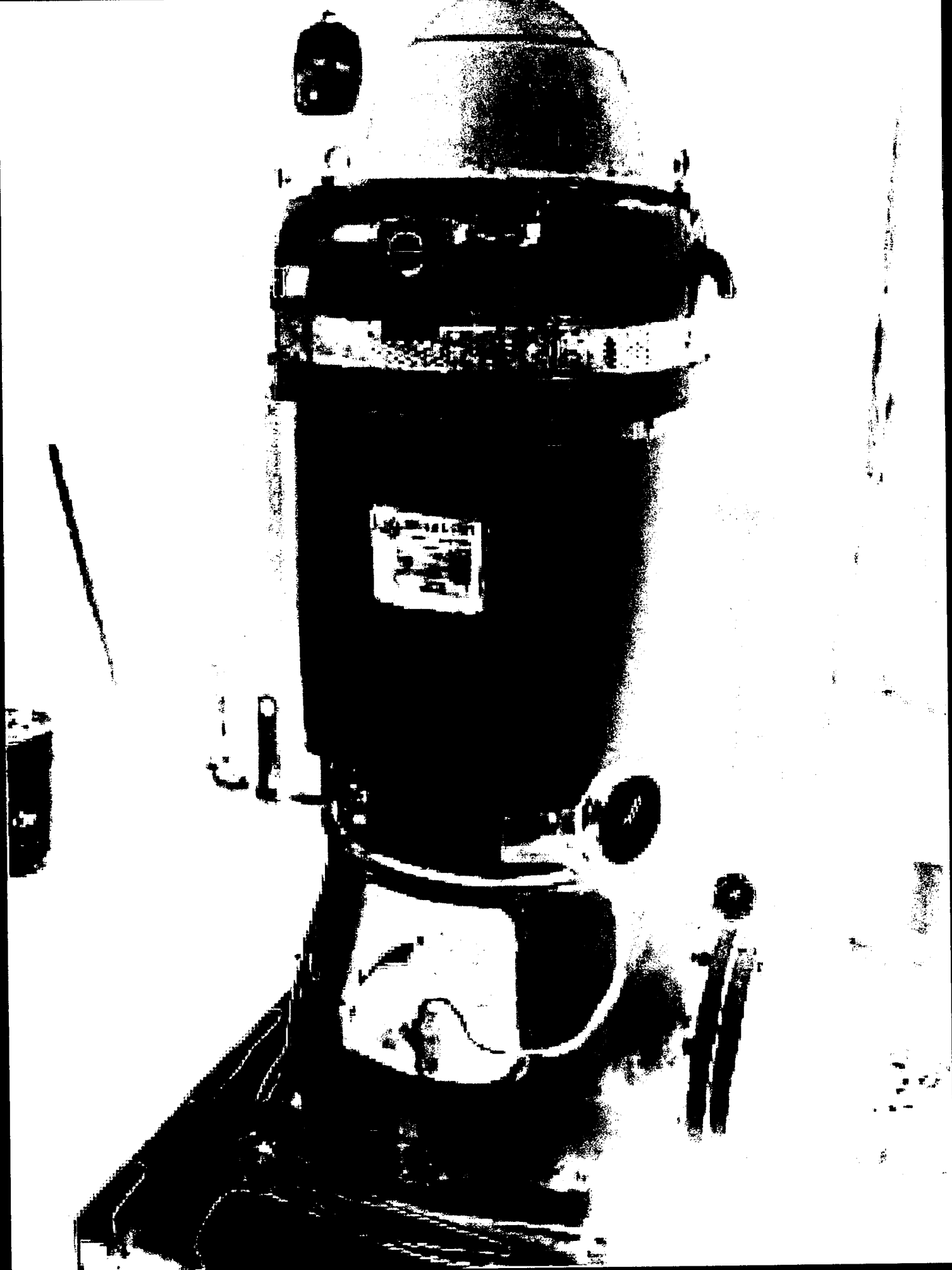
**Length:** 544

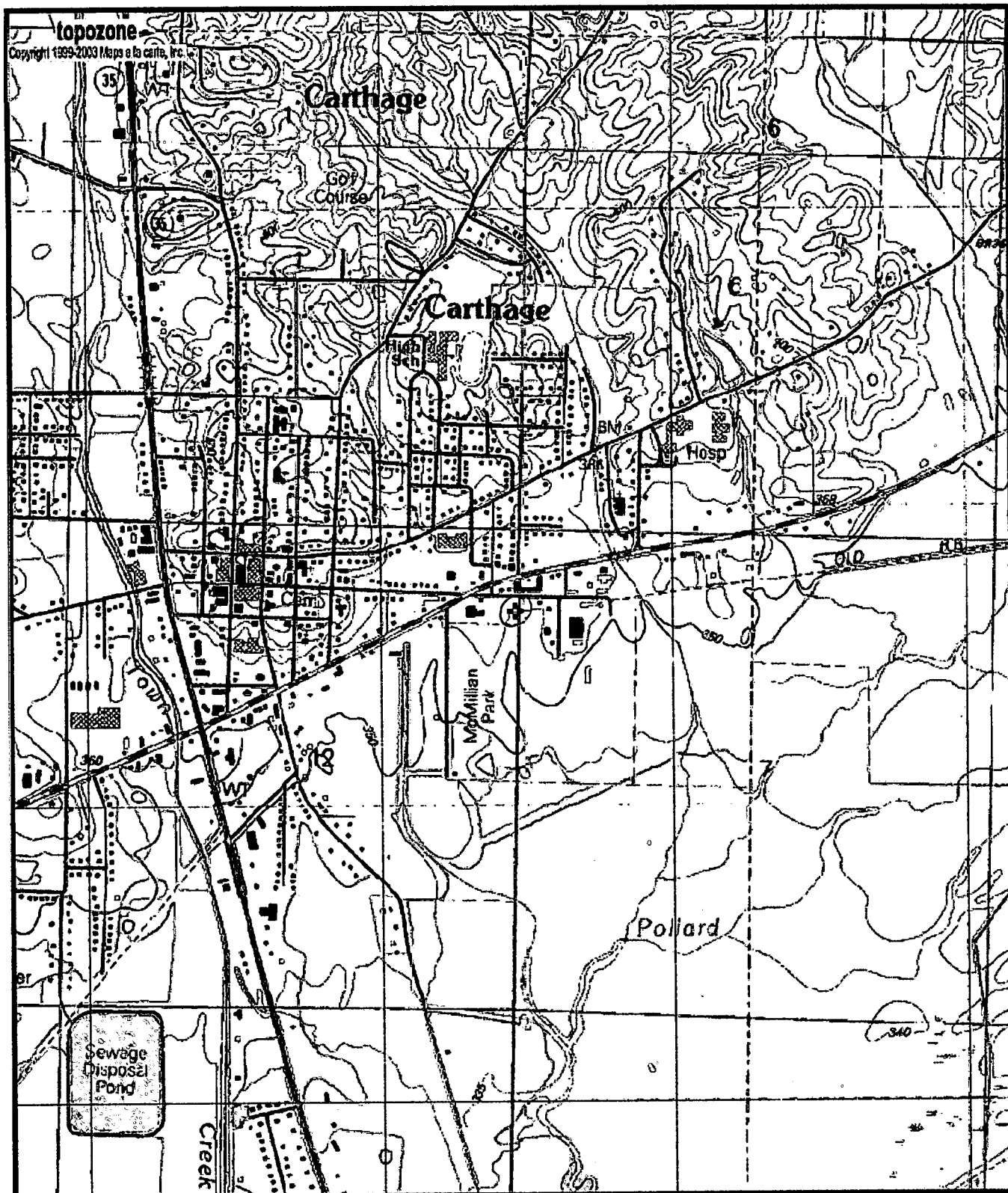
**Screen**

**Type:** STAINLESS STEEL

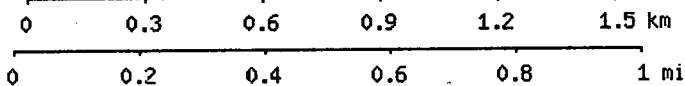
**Diameter:** 10

**Length:** 60





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Map center is 32° 44' 11"N, 89° 31' 28"W (WGS84/NAD83)  
**Carthage** quadrangle  
 Projection is UTM Zone 16 NAD83 Datum

