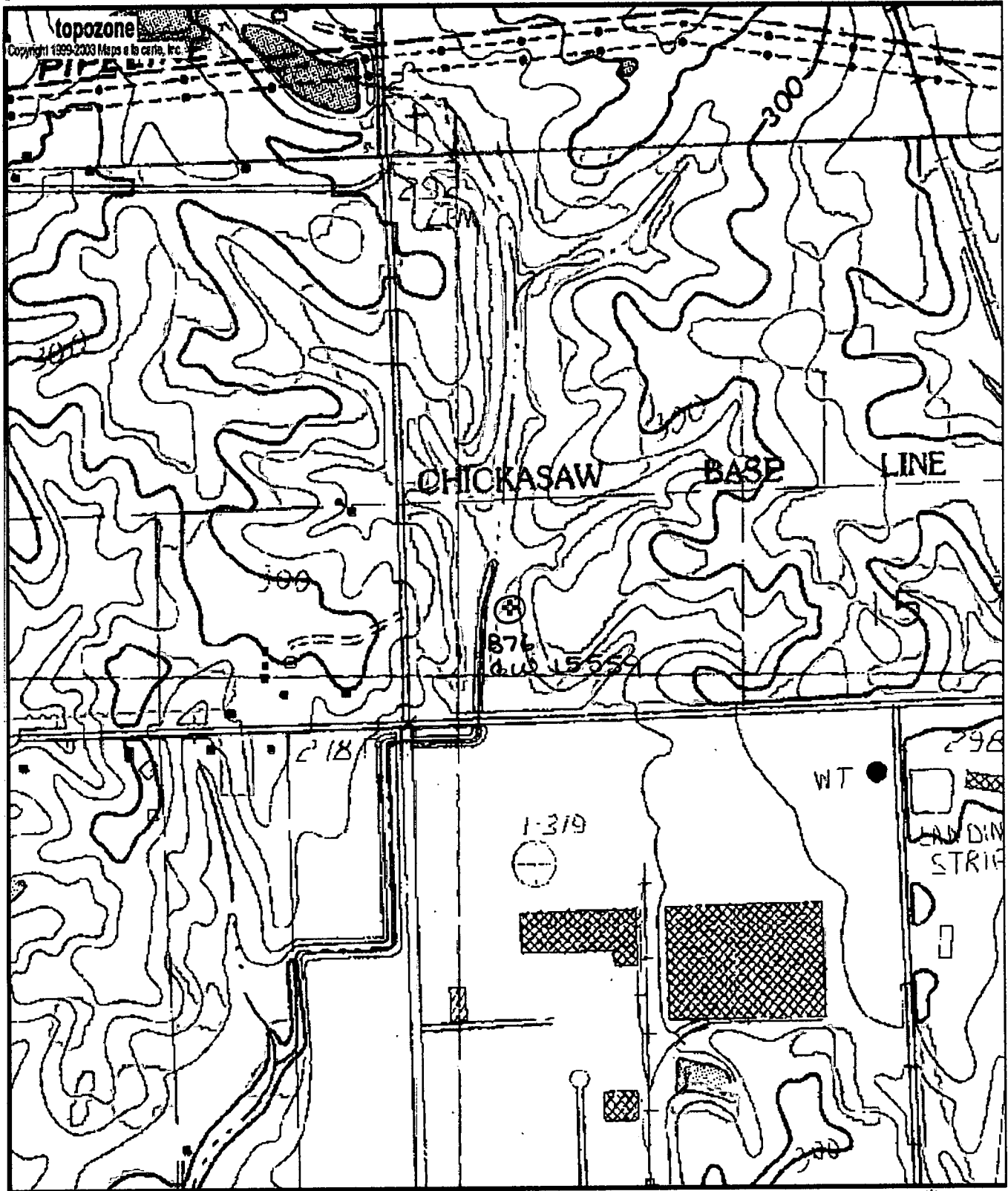


Map center is 34° 59' 37"N, 90° 02' 28"W (WGS84/NAD83)
Horn Lake quadrangle - TopoZone Pro elevation display
 Projection is UTM Zone 15 NAD83 Datum

M=0.137
 G=1.698



Map center is 34° 59' 37"N, 90° 02' 28"W (WGS84/NAD83)
 Horn Lake quadrangle - TopoZone Pro elevation display
 Projection is UTM Zone 15 NAD83 Datum

M=0.137
 G=1.698

If well telescopes please
sketch and show depths.

GROUND LEVEL

SECTION _____

Please indicate well location X.

ADDITIONAL INFORMATION

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

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL
QUALITY**
Office of Land and Water Resources

P. O. Box 10631
Jackson, MS 39289-0631
WATER WELL DRILLERS LOG

COUNTY WELL LOCATED DESOTO		PERMIT NUMBER MS GW 15559
WELL NUMBER 5	CODED	
DATE WELL COMPLETED 5-24-02		NAME OF DRILLING FIRM Layne Central div of Layne Christensen

NAME & MAILING ADDRESS OF LANDOWNER Schwaben Power LLC Cogenerix 9405 KNOXPOINT Blvd. Charlotte NC 28213			
LAT: 34° 59' 37" N			
LONG: 90° 02' 28" W			
WELL LOCATION	SEC	TOWNSHIP	RANGE
	15	1	8
DISTANCE _____ DIRECTION _____ NEAREST TOWN _____ 2 Miles west of High 51			
OTHER LANDMARK Shoreline - High 51 / Neco Power			
WELL PURPOSE: Home, Irrigation, Municipal, Industrial, Fish Pond, etc. Industrial Water Supply			

PUMP DATA		
PUMP TYPE (Circle One): Submersible, Turbine , Jet, Flowing Well, Other (Describe)		
POWER TYPE (Circle One): Electric , Tractor, Diesel, Gasoline, Butane, Other (Describe) H/P 200		
Pump Capacity (GPM) 1205	No. of Stages 6	Setting Depth 290 FT.
PUMP TEST Well yielded 1205 GPM with a drawdown of 40' ft. after 72 hours of pumping		

WELL DATA		
Well Depth 1420'	Casing Diameter (In.) 20"	Casing Length (Ft.) 1315
Type of Casing 1875 steel	Hole Depth 1420'	Depth to Static Water Level 118'
TYPE OF COMPLETION: (Circle One or More): Gravel Packed , Underreamed, Telescoped, Natural Development, Open Hole, Other (Describe)		
WELL GROUTED TO A DEPTH OF 1315 FEET Type Grout (circle one): Cement , Bentonite, or Mix		

LOG DATA			
TYPE OF LOG RUN (Circle One): Electric , Gamma Ray, Density, Sonic, Neutron, No Log Run, Other (Describe)			
Name of Organization Running Log Layne Central Co			

SCREEN DATA		
Diameter - Inches 12"	Length - Feet 100'	Slot Size - Inches 20 slot
Screen Type 304 stainless WW	Depth to Bottom - Feet 1420'	

GEOLOGIC DATA (Office Use Only)			
Surface Elev.	Geologic Unit	Unit Thickness	Depth to Top
Subs. SWL	Date	Analysis	Aquifer Test
Driller's Remarks			
Top of Lap Pipe or Reduction in Casing			
FEET	IF TELESCOPED OR MORE THAN ONE SCREEN: USE BACK PAGE		

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (Continued)	FROM	TO
(see attached)					

RECEIVED
SEP 03 2002
BY: OLWR

IF MORE SPACE IS NEEDED, USE BACK

Misc Other ID Data

R=189 T=A 736 #1

E-Log No.

190=

Assigner

191= M I S S I S T

B76

Misc Logs Data

R=198 T=A 739 #1

Log Type

199= DR

Beg. Depth

200= 0

End Depth

201= 1420

Format

225= F 226= USGS Files

R=198 T=A 739 #2

Log Type

199= EE

Beg. Depth

200=

End Depth

201=

Source

225= F 226= USGS files

Misc. Network Data

706= QW, WL, WD *

Beg. of Year

End of Year

Agency Source

Freq.

R=114 T=A 730 #1 115= 116= 120= A 117= 118=

Beg. of Year

End of Year

Agency Source

Freq.

R=121 T=A 730 #2 115= 116= 117= 118=

Misc Remarks Data

R=183 T=A 311 #1

Date of Remarks

184=

Remarks--(Max. of 44 characters)

185=

Discharge Data

R=146 T=A

Pump/Flow

147 #1

Date

148= 05242002

Type

703= (P) F

Discharge

150= 1205

Meth. Disc.

152= R

Duration

157= 72

Specific Capcity

272=

Drawdown

309= 40

Geohydrologic Data

R=90 T=A 721 #1

Depth-Top of Interval

91= 1300

Depth-Bottom of Interval

92= 1420

Aquifer Code

93= 11245PRT 304= P

Hydraulic Data

R=98 T=A 790 #1

Unit Tested

100=

Hydraulic Unit ID

Unit Type

103=

Historical Water Level Data

R=234 T=A 235#

Date

05242002

Water Level

237= 118

Source

243= L 244=

Method of Meas.

239= R

Source Agency

247= MS008

A-gov., D-driller, G-geologist, L-logs, M-memory, O-owner, R-other reported, S-reporting agency, Z-other

Total Depth	Thickness Each Stratum	Formation	911	1004	
0	10	Fill in			Sandy Shale & Sand streaks
10	26	Clay		1019	Hard Shale
26	33	Sand & Gravel		1034	Sandy Shale Hard Streaks & Lignite
33	236	Gray Clay	10347	1039	Real Hard Shale & rock Streaks
236	245	Sandy Clay	1039	1189	Hard Shale
245	378	Med Sand & clay	1189	1283	Shale & Lignite
378	448	Fine Sand & Clay	1283	1300	Sandy Shale & Lignite
448	471	Med Coarse Sand & Clay	1300	1450	Hard Fine Sand & Shale Streaks
471	502	Sandy Shale & Sand	1450	1471	Hard Shale & Sandy Streaks
502	550	Sandy Shale	1471	1520	Fine Sandy shale & sand Streaks
550	564	Sandy Shale	1520	1525	Shale
564	595	Fine Sand & Shale 1/2 1/2	1525	1534	Sandy Sahle
595	911	Fine Sand, Shale Streaks, & Lignite			

Coded by: DE BURT 9/27/02 for map
Checked by: JR 090703
Entered by: Ljk
Date: 7/2003

used driller's lat/long 298
U.S. Geological Survey
Water Resources Division
Mississippi District
Well Record

Well # 5
GW 15559
E-Log No.
County DESOTO
Agency

Well No. B76
293

Agency Code USGS Site ID Horn Lake Quad Project No. (12 chara.)
1=345937090022801 5=

Station Name B0076XDESOTO Latitude 9=345937
Longitude 10=0900228 Lat/Long Acc. 11=5 Lat/Long Meth. 35=G Lat/Long Datum (NAD27 or NAD83) NAD83
Dist. Code 28 State Code 28 County Code 033
LL Acc= \pm .1 sec, 5= \pm .5 sec, S= \pm .1sec(GPS), F= \pm .5sec, T= \pm .10 sec, M= \pm .1 min
LL Meth=D=DGPS, G=GPS, L=Loran, M=MAP, S=Survey, U=Unknown

Land Net Location 13=SWSWSWSWX15T01SXXR08WXXI
Location Map 14=HORN LAKE Altitude 16=265. Accuracy 18=5 Method Meas. 17=M
Altitude Datum (NGVD29 OR NAVD88) 22=NAVD88 Hydrologic Unit 20=08010211 Topo Set 19= Agency Use 803= A I O Date Invented 711=
Station Remarks Field (50 chara.)---33 spaces shown
806= Z M I W D F H W Y 5 1

Station Type 802= Data Type 804= A I O Gr. Time 813= -06 Loc. Time 814= Y Web-R 32= Reliability 3= C L M U 2= W X Date of Construction 21=05242002
Well Use 23=W Water Use 24=N Primary Aquifer WLCXL Hole Depth 27=1420. Well Depth 28=1420.

Construction Data
R=58 T=A 723 #1 Construction Date 60=05242002 Contractor 63=0064 Name LAYNE CENTRAL Method 65=H Finish 66=G

Construction Casing Data
R=76 T=A 725 #1 59 #1 Top of Casing 77=0. Bottom of Casing 78=1315. Diameter 79=20. Material 80=S
R=76 T=A 725 #1 59 #1 Top of Casing 77=1254. Bottom of Casing 78=1315. Diameter 79=12. Material 80=S
G-galv. pipe, P-pvc/plastic, S-steel
(For other materials--see manual)
G-gav. iron, P-pvc/plastic, R-stainless steel, S-steel

Construct. Openings Data
R=82 T=A 726 #1 59 #1 Top / Depth 83=1315. Bottom / Depth 84=1415. Diameter 87=112 Material 86=R Type 85=R Width 88=.020.
R=82 T=A 726 #2 59 #1 Top / Depth 83=. Bottom / Depth 84=. Diameter 87=. Material 86=. Type 85=. Width 88=.
F-fractured rock, M-mesh screen, P-perforated, S-screen, T-sand point, X-open hole (For other types see manual)

Construction Lift Data
R=42 T=A 254 #1 Lift Type 43=T A=air lift, B-bucket, C=centrifugal, J=jet, P-piston, R-rotary, S=submergible
Power/Type 45=E D=diesel, E=elect., G=gasoline, L=LP gas, N=nat. gas, W=windmill
Date 38=05242002 Intake 44=290
Horse Power 46=200. Serial No. 49=

Misc Owner Data
R=158 T=A 718 #1 Date of Ownership 159=05242002 Owner Name well #5
161=SOUTHAVEN PWR-NEPCO
Phone Number 351= Street Address (max. of 64 characters) 352=9405 Arrowpoint Blvd City 355=Charlotte
State 356=NC Zip Code 357=28273 358=USA

(
B-1
-2000

Projection is UTM Zone 18NAD83 datum -
Meters