

Coded By Q-9/88  
 Checked By \_\_\_\_\_  
 Entered By \_\_\_\_\_  
 Date \_\_\_\_\_

U.S. GEOLOGICAL SURVEY  
 WATER RESOURCES DIVISION  
 MISSISSIPPI DISTRICT

Well No. E70  
 E-Log No. 309  
 County COV. CO.  
 Agency \_\_\_\_\_

Driller's log & w.s. **DON'T MATCH** WELL RECORD

Agency Code U S G S Site Id 131151021010910119151011 Project No. 54

Station Name 12-EDITION CRYSTAL SPRINGS Latitude 9-31-15181281 Longitude 10-09-101191518

Lat/Long Ac. 11-S F T M Dist 6-28 State 7-28 County 8-0291 Land Net SE NE/SE/NW/NE

Location Map 14-CRYSTAL SPRINGS Altitude 472 Met/Meas 17-A L M Accuracy 18-15.1 Hydrologic Unit 20-0131181010121

Agency Use 803-A I O Date Inventoried 711- / / Station Type Y Data Type 804

Instru. 805 Remarks \_\_\_\_\_ Relia. 3-CLM U 2-W

Date of Construction 21-01-81 MU Well Use 12-91 Water Use 11-91 Primary Aquifer 81 Hole Depth 27-11561

Well Depth 28 Water Level 30 Water Level Date 31- / / Method 34 Status 37 Source 33

CONSTRUCTION DATA

R=58 T=A 723#1 Construction Date 60-01-81 Contractor 63-1644 Name Jayne Method 65-H Finish 66-1

CONSTRUCTION CASING DATA

R	T	Well No.	Top/Casing	Bot/Casing	Diameter	
76	A	725#1	59#1	77	78	79
76	A	725#2	59#1	77	78	79

CONSTRUCTION OPENINGS DATA

R	T	Well No.	Top/Depth	Bot/Depth	Diameter	Type	Length	Width	
82	A	726#2	59#1	83	84	87	85	89	88
82	A	726#2	59#1	83	84	87	85	89	88

CONSTRUCTION LIFT DATA

R=42 T=A 254#1 Lift Type 43 Date 38- / / Intake 44

Power 45 H.P. 46 Serial No. 49

MISCELLANEOUS OWNER DATA

R=158 T=A 718#1 Date of Ownership 159-01-81 Owner Name 161-CRYSTAL SPRINGS

MISCELLANEOUS OTHER ID DATA

R=189 T=A 736#1 E-Log No. 190-31091 Assigner 191-M I S S I D I S T

6/15/94 CAR/DRB

MISCELLANEOUS QW DATA

			Date of Measurement	Aquifer Sampled	Par. Code	Value
R=192	T=A	738#1	193#     /     /         *	195#                 *	196#00010	197#         *
R=192	T=A	738#2	193#     /     /         *	195#                 *	196#00095	197#             *
R=192	T=A	738#3	193#     /     /         *	195#                 *	196#00400	197#         *

MISCELLANEOUS LOGS DATA

			Log Type	Beq. Depth	End Depth
R=198	T=A	739#1	199# E *	200#     15   *	201#     15   4   *
R=198	T=A	739#1	199#   *	200#             *	201#             *

MISCELLANEOUS NETWORK DATA

			Network Type	Beq. Year	End Year
R=114	T=A	730#1	706#   *	115#   9     *	116#   9       *
R=121	T=A	730#1	Analysis 120#   *	Agency Source 117#           *	Freq. 118#     *

MISCELLANEOUS REMARKS DATA

			Date of Remarks	Remarks
R=183	T=A	311#1	184#     /     /         *	185#                 *

DISCHARGE DATA

R=146	T=A	147#1	148#     /     /         *	703# P R	150#                 *	272#                 *
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GEOHYDROLOGIC DATA

			Depth Top	Depth Bot.	Unit Id
R=90	T=A	721#1	91#                 *	92#                 *	93#                 *

HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 100#                 *	103#     *
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**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  
**Copiah**

WELL NUMBER CODED  
**7 E10**

DATE WELL COMPLETED  
**11/14/86**

PERMIT NUMBER  
**GW 7118**

NAME OF DRILLING FIRM  
**Layne-Central**

**Jackson, MS**

NAME & MAILING ADDRESS OF LANDOWNER  
**City of Crystal Springs**

**PO Box 151**

**Crystal Springs, MS 39059**

WELL LOCATION SEC TOWNSHIP RANGE  
**NE/4 NE/4 31 2N 1W**

DISTANCE DIRECTION NEAREST TOWN  
Miles of **Crystal Springs**

OTHER LANDMARK  
**Harmony Road**

WELL PURPOSE Home, Irrigation, Municipal, Industrial, Fish Pond, etc  
**Municipal**

**PUMP DATA**

PUMP TYPE:  
Submersible  Turbine  Jet Flowing Well   
Other (Describe) \_\_\_\_\_

POWER TYPE:  
Diesel  Electric  Gasoline  Tractor  Butane   
Other (Describe) \_\_\_\_\_ H/P **20**

Pump Capacity (GPM) **250** No. Of Stages **6** Setting Depth **101** FT.

PUMP TEST  
Well yielded **192** GPM with  
a drawdown of **8** ft.  
after **6** hours of pumping

**WELL DATA**

Well Depth <b>119'</b>	Casing Diameter (In.) <b>16"</b>	Casing Length (Ft.) <b>68'</b>
Type of Casing <b>Steel</b>	Hole Depth <b>119'</b>	Depth of Static Water Level <b>64'</b>

TYPE OF COMPLETION  
Underreamed  Telescoped  Open Hole   
Natural Development  Other (Describe) \_\_\_\_\_

WELL GROUTED TO A DEPTH OF **68'** FEET

TYPE GROUT  
Cement  Bentonite  Mix

**LOG DATA**

TYPE OF LOG RUN  
Electric  Gamma Ray  No Log Run   
Sonic  Neutron  Density

Other (Describe) \_\_\_\_\_

Name of Organization Running Log  
**Layne-Central**

**SCREEN DATA**

Diameter - Inches <b>10"</b>	Length - Feet <b>20.3'</b>	Slot Size - Inches <b>0.020"</b>
Screen Type <b>Stainless Steel</b>	Depth to Bottom - Feet <b>15'</b>	

**GEOLOGIC DATA (Office Use Only)**

Surface Elev.	Geologic Unit	Unit Thickness	Depth to Top
Subs. SWL	Date	Analysis	Aquifer Test

Driller's Remarks  
**15'10" SS Pump Pit Below Screen**

Top of Lap Pipe or Reduction in Casing  
**68** FEET

IF TELESCOPED OR MORE THAN ONE SCREEN, USE BACK PAGE.

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO	FORMATIONS (DEPTH) FEET	FROM	TO
Top Soil	0	1		0	
Sandy Red Clay	1	13		0	
Red Sand & Pea Gravel	13	30		0	
Sandy Red Clay	30	36		0	
Red Clay	36	42		0	
Gravel	42	52		0	
Sand & Pea Gravel	52	110		0	
White & Yellow Clay	110	116		0	
	116			0	
	0			0	
	0			0	
	0			0	
	0			0	
	0			0	
	0			0	

**RECEIVED**

**MAY 01 2000**

Dept. of Environmental Quality  
Office of Land & Water Resources

IF MORE SPACE IS NEEDED, USE BACK

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): LAC/DAB DATE: 6/15/94  
UNIT DEQ #: \_\_\_\_\_ FILE #: A0617160  
HEALTH DEPT. #: 150003-05 ELEV. 430  
USGS #: E70 ~~E62~~ OLWR #: 7118  
OWNER: Crystal Springs Water Service  
LOCATION: NE/NW/NE S 34 T 2N R4W COUNTY: Copiah  
LOCATION DESCRIPTION: E. side of harmony rd ACROSS  
from BLAINE Sand + gravel  
CASING DIA: 16" PUMP TYPE & SIZE: Turbine 120  
GPS FIELD LOCATION: LAT. 31-58-30 LONG. 90-20-53  
31-58-44.5 N 90-20-116 W  
GPS CORRECTED LOCATION: LAT. 31 58 27.572 LONG. 90 20 06.208  
31.974326 90.335057  
REMARKS: Harmony rd. 1/2 mile East of 6 mile Rd. A white  
house next to fenced well North side of  
harmony rd.

Crystal Springs

RECEIVED

APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW WATER FOR BENEFICIAL USE THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI

FEB 23 1995

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES

P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5303

Dept. of Environmental Quality Office of Land & Water Resources FORM OLR-A-2 (REV. 8/94)

This box is for office use only.

6-25-96 AGN.

Table with 4 columns: Issued, Expires, Fee Paid, Permit No.; Lat., Long., Elev., USGS No.; Quad, ASCS Farm No., STAC, MSDOH No.; Aquifer, Tract No., Basin No.; Remarks, Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL - PERMIT NO. GW-7118
THIS APPLICATION IS FOR (Circle one): GROUNDWATER - COMPLETE A,B,E SURFACE WATER - COMPLETE A,C,D,E

BENEFICIAL USE (Circle one or more): 1) Public Supply - Municipal, Rural Water, or Private Water 2) Irrigation
3) Industrial 4) Fish Culture 5) Recreation 6) Institutional (eg. Church, School) 7) Commercial (eg. Hotel, Casino, Restaurant) 8) Fire Protection 9) Livestock 10) Flood Protection 11) Other:

SECTION A (to be completed by ALL APPLICANTS)

LANDOWNER: City of Crystal Springs 646000304
210 East Railroad Ave P.O. Box 473
Crystal Springs Miss 39059 (601) 892-1210

APPLICANT, AGENT, OR LESSEE (if different from Landowner):
(Name) (SSN or Tax ID No.)
(Address)
(City) (State & Zip) (Telephone)

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application):
NE 1/4 of the NE 1/4 of Section 31, Township T2N, Range R1W, County Copiah

Does the land to which this application pertains have any source(s) of water other than that for which you are now applying (circle one)? YES (NO) If yes, describe the nature and amount of any additional supply and, if applicable, list permit number. pump set below screen.

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: U/Miocene CRNL MISSISSIPPI DEPARTMENT OF HEALTH NO.: 150003-05
2. Proposed work will begin on 19\_\_ and will be completed by 19\_\_
If well has already been drilled, when was well completed (date)? November 4, 1986 Under whose name was well originally drilled (if known)? Sayre Central
3. Description of proposed or completed well:
(a) DEPTH OF WELL: 119' Test. DRILLER: Sayre Central
(b) SURFACE CASING: Length 68' feet; Diameter 16" inches; Type Welded Black Steel
(c) SCREEN: Length 20'3" feet; Diameter 10" inches; Type Stainless Steel
(d) PUMP: Type Turbine; Size; Capacity 192 gallons per minute; Setting depth 104 feet
(e) POWER UNIT: Type U.S. Motor; Size 20 horsepower
4. PERMITTED VOLUME:
(a) \_\_\_ gpd per year at a maximum rate of \_\_\_ gallons per minute
(b) 114,720 .13 gpd per day at a maximum rate of 284 192 gallons per minute

(CONTINUED ON BACK)

Harmony Rd. Water Well

MAP SENT

**SECTION C** (to be completed for SURFACE WATER SOURCE)

1. Source of water is from \_\_\_\_\_ which drains into \_\_\_\_\_  
which drains into \_\_\_\_\_  
(major stream or river)
2. Discription of pump/diversion works:  
Pump (size & type): \_\_\_\_\_ Power Unit (size & type): \_\_\_\_\_  
Lift: \_\_\_\_\_ feet Maximum capacity: \_\_\_\_\_ gallons per minute
3. \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute

**SECTION D** (to be completed for SURFACE WATER IMPOUNDMENTS (DAMS) on continuously flowing streams)

1. Name of storage reservoir: \_\_\_\_\_ Dam Height: \_\_\_\_\_ feet
2. Surface area at normal pool: \_\_\_\_\_ Storage capacity at normal pool: \_\_\_\_\_ acre-feet

**SECTION E WATER USE DATA (ALL APPLICATIONS - complete section related to beneficial use)**

1. IRRIGATION: List the number of acres of each crop to be irrigated: Rice \_\_\_\_\_; Cotton \_\_\_\_\_; Oats \_\_\_\_\_;  
Corn \_\_\_\_\_; Soybeans \_\_\_\_\_; Pasture \_\_\_\_\_; Truck \_\_\_\_\_; Wheat \_\_\_\_\_; Grain Sorgum \_\_\_\_\_;  
Other (specify) \_\_\_\_\_ Acres \_\_\_\_\_  
A. Method of Irrigation (circle one) - Center Pivot Flood Furrow  
B. Land Condition (circle one) - Precision Land Formed Smoothed  
C. ASCS Farm No. \_\_\_\_\_ Tract No. \_\_\_\_\_
2. FISH CULTURE: Explain how water will be used: \_\_\_\_\_  
How often will reservoir (s) be emptied and refilled? \_\_\_\_\_
3. MUNICIPAL, WATER ASSOCIATION, or PRIVATE WATER SYSTEM  
Chose "a" or "b". (a) The number of people served is 6342 or (b) The number of connections is 2114  
What is the estimated average daily consumption during periods of maximum use at the end of each five-year period during the next twenty (20) years?  

<u>1262476PD</u>	<u>2001</u>	<u>1388716PD</u>	<u>2006</u>	<u>1527586PD</u>	<u>2011</u>	<u>1680746PD</u>	<u>2016</u>
(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)
4. INDUSTRIAL: If the water is to be released into a watercourse, indicate the amount released each year \_\_\_\_\_;  
Rate of release \_\_\_\_\_; NPDES Permit No. \_\_\_\_\_  
Explain any changes in quality of water to be released: \_\_\_\_\_  
Explain how water will be used: \_\_\_\_\_  
How much groundwater will be used for once-through non-contact cooling? \_\_\_\_\_
5. RECREATION: Explain how water will be used: \_\_\_\_\_
6. OTHER USE: Explain in detail (if needed, attach another page): \_\_\_\_\_
7. REMARKS: \_\_\_\_\_

List below the person to be contacted for additional information if required.

Robert J. Sims  
(Name)  
3411 W.R. Ave P.O. Box 151  
(Address)  
Crystal Springs Miss. 39059  
(City, State, Zip)  
601-892-4111  
(Telephone)

The accompanying map is hereby declared a part of this application. For irrigation and fish culture use, an ASCS photograph is required. The TEN DOLLAR (\$10.00) permit fee is enclosed herewith.

Robert J. Sims  
(Signature)

Subscribed and sworn to before me this 17<sup>th</sup> day of February 1996, at 10:00 County of COPLAN  
My commission expires \_\_\_\_\_

Denise L. Coates Notary Public.  
BY COMMISSION EXPIRES AUG. 18, 1998  
BONDED THRU STEGALL NOTARY SERVICE

GW-263

# Crystal Springs

(BM 464)

Athletic Field

Radio Tower

## U S MILITARY RESERVATION

Sewage Disposal

Red Hill Cr

Poplar Springs Cem G

Gravel Pits

Little

Cornish

St Mary Ch

Creek

BR 390

BR 364

25

2270

2271

Cemetery

36

34

Gravel Pit

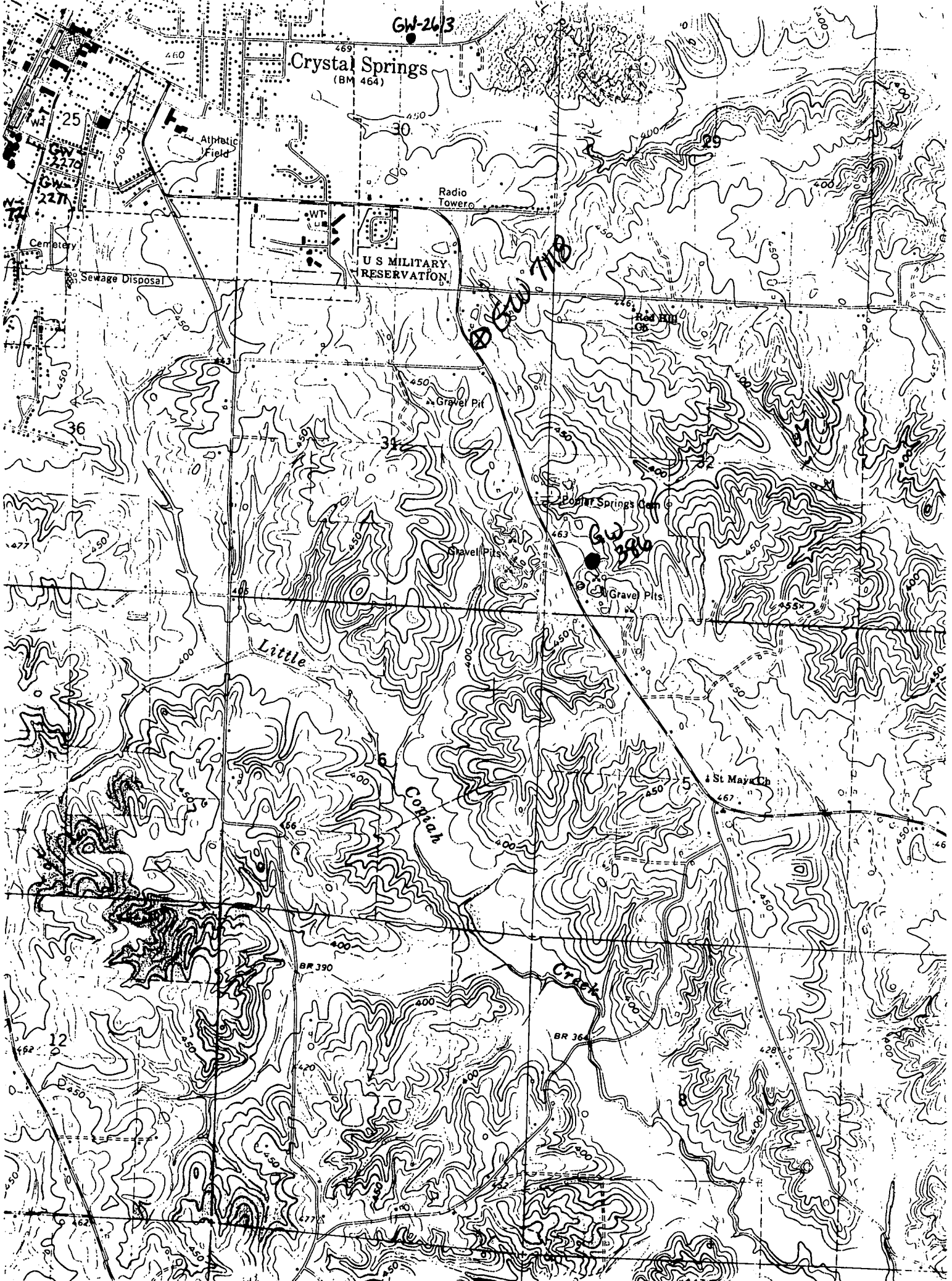
Gravel Pit

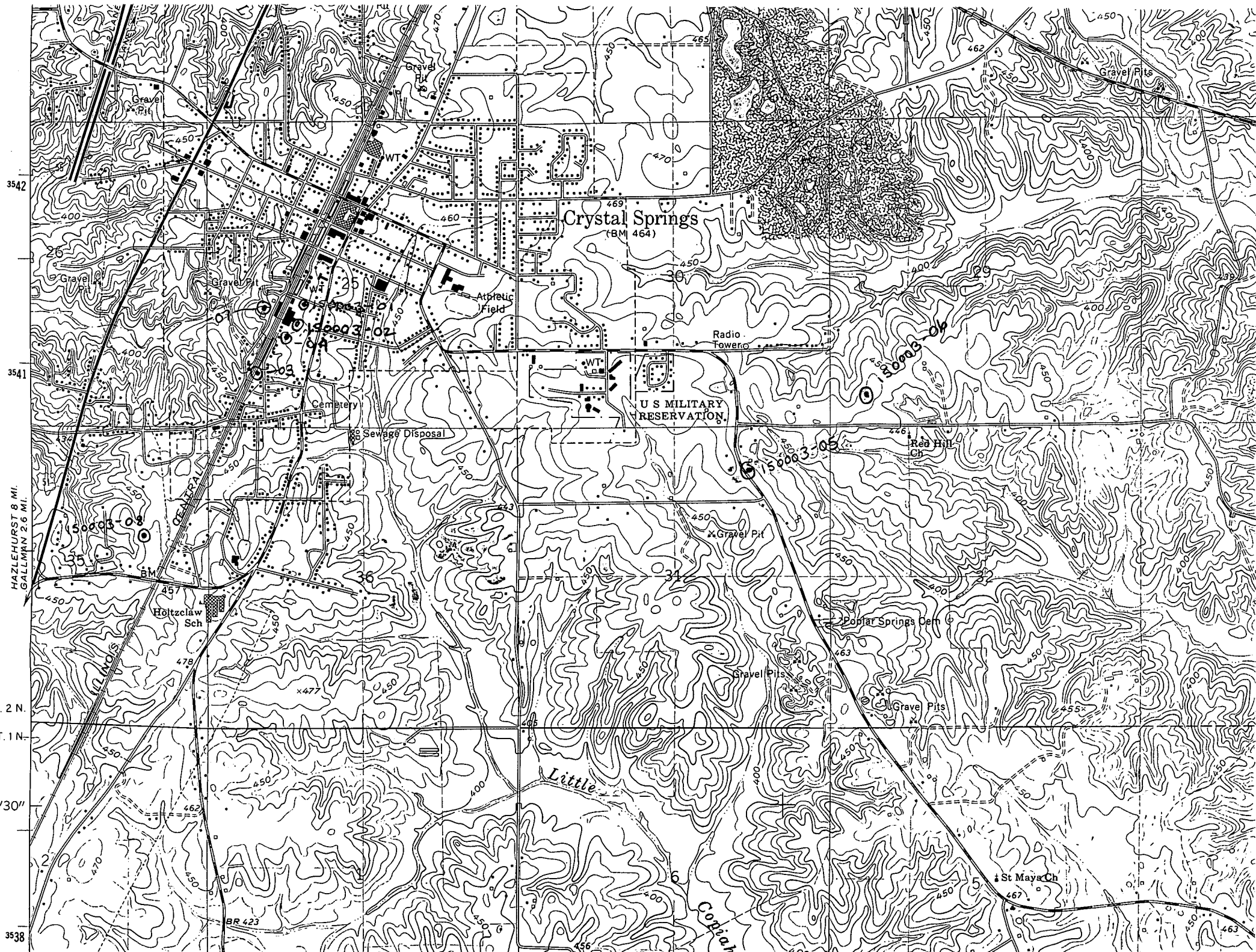
12

420

428

477





HAZLEHURST 8 MI.  
GALLMAN 2.6 MI.

Crystal Springs  
(BM 464)

U S MILITARY  
RESERVATION

Holtzelaw Sch

Red Hill Ch

Poplar Springs Dem

St Maya Ch

Little

Cohan

3542

3541

2 N.

1 N.

'30"

3538