

Coded By Q 490
Checked By 06-12-91
Entered By LSG
Date 06-12-91

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
MISSISSIPPI DISTRICT

E-Log No. 317
County COPIAH
Agency

Well No. E 71

WELL RECORD

Agency Code <u>U S I G S</u>	Site Id <u>1 3159150910119311011</u>	Project No. <u>5 </u>
Station Name <u>12 E 07 CRYSTAL SPRINGS </u>	Latitude <u>9 31 59 15</u>	Longitude <u>10 4 09 10 19 31 11</u>
Lat/Long Ac. <u>11 S 1 M</u>	Dist <u>6 = 28</u>	State <u>7 = 28</u>
County <u>8 0 2 9</u>	OK Land Net <u>13 SE SW 29 10 21 R 01 W</u>	
Location Map <u>14 CRYSTAL SPRINGS</u>	Altitude <u>16 4 6 0</u>	Met/Meas <u>17 A U</u>
	Accuracy <u>18 1 5</u>	Hydrologic Unit <u>20 0 3 1 8 1 0 1 0 2</u>
Agency Use <u>803 A 1 0</u>	Date Inventoried <u>7 1 1 </u>	Station Type <u>J Y</u>
	Data Type <u>804 </u>	
Instru. <u>805 </u>	Remarks <u>806 </u>	Relia. <u>3 C L U</u> <u>2 W X</u>
Date of Construction <u>21 11 89</u>	MU Well Use <u>23 W</u>	Water Use <u>24 P</u>
Primary Aquifer <u>7 1 4 1 2 1 C R N L I</u>	Hole Depth <u>27 1 1 8 1 1</u>	
Well Depth <u>28 1 1 8 0</u>	Water Level <u>30 1 6 2 9</u>	Water Level Date <u>31 0 9 1 0 1 1 1 9 8 9</u>
Method <u>34 1</u>	Status <u>37 1</u>	Source <u>33 D</u>

CONSTRUCTION DATA

Construction Date <u>60 0 9 1 0 1 1 1 9 8 9</u>	Contractor <u>63 1 8 4</u>	Name <u>Griner Dwg</u>	Method <u>65 R</u>	Finish <u>66 B</u>
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CONSTRUCTION CASING DATA

Top/Casing <u>77 1 1 0 1</u>	Bot/Casing <u>78 1 5 1 1</u>	Diameter <u>79 1 1 4</u>
Top/Casing <u>77 1 4 2</u>	Bot/Casing <u>78 1 6 2</u>	Diameter <u>79 1 0</u>

CONSTRUCTION OPENINGS DATA

Top/Depth <u>83 1 6 2</u>	Bot/Depth <u>84 1 1 1 2</u>	Diameter <u>87 1 1 0 1</u>	Type <u>85 S</u>	Length <u>89 </u>	Width <u>88 </u>
Top/Depth <u>83 </u>	Bot/Depth <u>84 </u>	Diameter <u>87 </u>	Type <u>85 </u>	Length <u>89 </u>	Width <u>88 </u>

CONSTRUCTION LIFT DATA

Lift Type <u>43 T</u>	Date <u>38 0 9 1 0 1 1 1 9 8 9</u>	Intake <u>44 1 1 2 6</u>
Power <u>45 E</u>	H.P. <u>46 1 2 1 0</u>	Serial No. <u>49 </u>

MISCELLANEOUS OWNER DATA

Date of Ownership <u>159 0 9 1 0 1 1 1 9 8 9</u>	Owner Name <u>161 CRYSTAL SPRINGS </u>
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MISCELLANEOUS OTHER ID DATA

E-Log No. <u>190 3 1 7</u>	Assigner <u>191 M I S S I S S I P P I</u>	<u>6/15/94 LAR/DRB</u>
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MISCELLANEOUS QW DATA

R=192	T=A	738#1	Date of Measurement 1934 / / .	Aquifer Sampled 195# .	Temp 196#00010	Value 197# .
R=192	T=A	738#2	Date of Measurement 1934 / / .	Aquifer Sampled 195# .	Sp Cond 196#00095	Value 197# .
R=192	T=A	738#3	Date of Measurement 1934 / / .	Aquifer Sampled 195# .	pH 196#00400	Value 197# .

MISCELLANEOUS LOGS DATA

R=198	T=A	739#1	Log Type 199#D	Beg. Depth 200# 0 .	End Depth 201# 80 .
R=198	T=A	739#2	Log Type 199#E	Beg. Depth 200# 44 .	End Depth 201# 80 .

MISCELLANEOUS NETWORK DATA

706 = QW - WL - WD *

R=114	T=A	730#1	Beg. Year 115# 9 .	End Year 116# 9 .	Agency Source 120=A* 117# .	Freq. 118# .
R=121	T=A	730#2	Beg. Year 115# 9 .	End Year 116# 9 .	Agency Source 117# .	Freq. 118# .

MISCELLANEOUS REMARKS DATA

R=183	T=A	311#1	Date of Remarks 184# / / .	Remarks 185# .
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DISCHARGE DATA

R=146	T=A	Pump/Flow 147#1	Date 148# 09 / 10 / 1989	Type 703# P F	Discharge 150# 250 .	Sp. Capacity 272# 6 8 .
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GEOHYDROLOGIC DATA

R=90	T=A	721#1	Depth Top 91# 163 .	Depth Bot. 92# 125 .	Unit Id 93# 1211CRNLI	304=P
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HYDRAULIC DATA

R=98	T=A	790#1	Unit Tested 100# .	103# .
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T.H. #1 for well #2

Few ft from E69 test well Layne 8/26/88

DESCRIPTION OF FORMATIONS ENCOUNTERED	FROM	TO
TOP SOIL	0	3
CLAY	3	14
SAND + CLAY STRS.	14	40
SAND + GRAVEL	40	57
CLAY	57	60
SAND thin STRS. of white	60	80
SAND thin STRS. of CLAY	80	100
SAND	100	125
CLAY, yellow, rocks	125	130
CLAY, blue	130	156
SAND	156	160

FORMATIONS (Continued)	FROM	TO
SAND + CLAY STRS.	160	180

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): LAR / DMS DATE: 6/15/94
UNIT DEQ #: 82859 FILE #: A061716E
HEALTH DEPT. #: 150003-06 ELEV. 440
USGS #: E-71 OLWR #: 11866
OWNER: Crystal Springs Water Service
LOCATION: NW/SE/SW S 29 T 2N R 1W COUNTY: Copiah
LOCATION DESCRIPTION: 0.2 SIX mi. N. 90.4 mi. driveway on
(W) side of road.
CASING DIA: _____ PUMP TYPE & SIZE: Turbine 120
GPS FIELD LOCATION: LAT. 31-43-30 LONG. 90-22-41
31-58-1.79N 90-19-714 W
GPS CORRECTED LOCATION: LAT. 31.5840961 LONG. 90.1942665
31.978045 90.328518
REMARKS: Six mile N. .2 West of 150003-05 Well. Turn
light.

Crystal Springs Quad.

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

RECEIVED

FEB 23 1996

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES
P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5202

Dept. of Environmental Quality
Office of Land & Water Resources
FORM 02-01-01

This box is for office use only.

6-25-96 AGW.

Issued: 2-12-91	Expires: 4-8-2006	Fee Paid:	Permit No.
Lat. 31-58-46	Long. 90-19-31	Elev. 465	USGS No.
Quad. Crystal Springs	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: CRNL	Tract No.		Basin No. 03180003
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL - PERMIT NO. EW-11866

THIS APPLICATION IS FOR (Circle one): GROUNDWATER - COMPLETE A,B,E LWM
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
(Name) (SSN or Tax ID No.)
210 East Railroad Ave P.O. Box 473
(Address)
Crystal Springs Miss 39059 (601) 892-1210
(City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):

(Name) _____ (SSN or Tax ID No.) _____
(Address) _____
(City) _____ (State & Zip) _____ (Telephone) _____

MAP SENT

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application):
SE 1/4 of the SW 1/4 of Section 29, Townsh p 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. _____

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: U/Miocene CRNL MISSISSIPPI DEPARTMENT OF HEALTH NO.: 150003-06

2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
If well has already been drilled, when was well completed (date)? September, 19 89. Under whose name was well originally drilled (if known)? Trines Drilling Service

3. Description of proposed or completed well:
(a) DEPTH OF WELL: 121 feet. DRILLER: Trines Drilling Service
(b) SURFACE CASING: Length 57' feet; Diameter 16" inches; Type Welded & Coated
(c) SCREEN: Length 50' feet; Diameter 10" inches; Type Wire Wound
(d) PUMP: Type Turbine; Size 8"; Capacity 250/330 gallons per minute; Setting depth 126 feet
(e) POWER UNIT: Type U.S. Electrical Motor; Size 20 horsepower

4. PERMITTED VOLUME:
(a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
(b) 119,760 million gallons per day at a maximum rate of 340 gallons per minute

2-29-96 (CONTINUED ON BACK)

6 Mile Rd Water Well

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>131,736 GPD</u>	<u>2001</u>	<u>144,909 GPD</u>	<u>2006</u>	<u>159,400 GPD</u>	<u>2011</u>	<u>175,340 GPD</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.

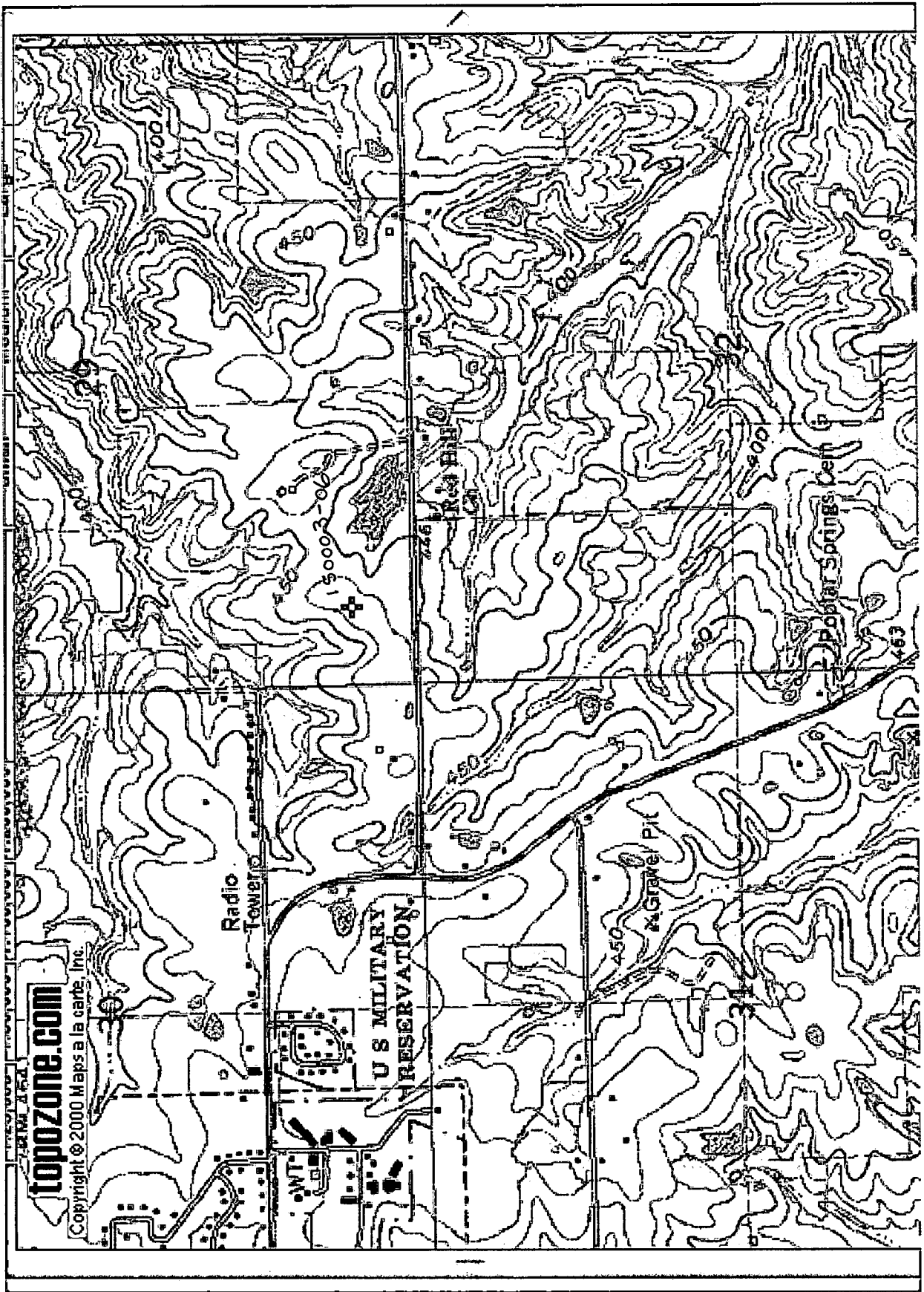
Robert J. Sims
(Name)
3411 W.R.R. Ave P.O. Box 151
(Address)
Capital Springs Miss. 39059
(City, State, Zip)
601-892-4111
(Telephone)

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 17th day of FEBRUARY 1996, at 10:01 County of CAPITAN

My commission expires _____
MISSISSIPPI STATEWIDE NOTARY PUBLIC
MY COMMISSION EXPIRES AUG 18 1998
BONDED THRU STEGALL NOTARY SERVICE
Linda L. Laster Notary Public.



topozone.com

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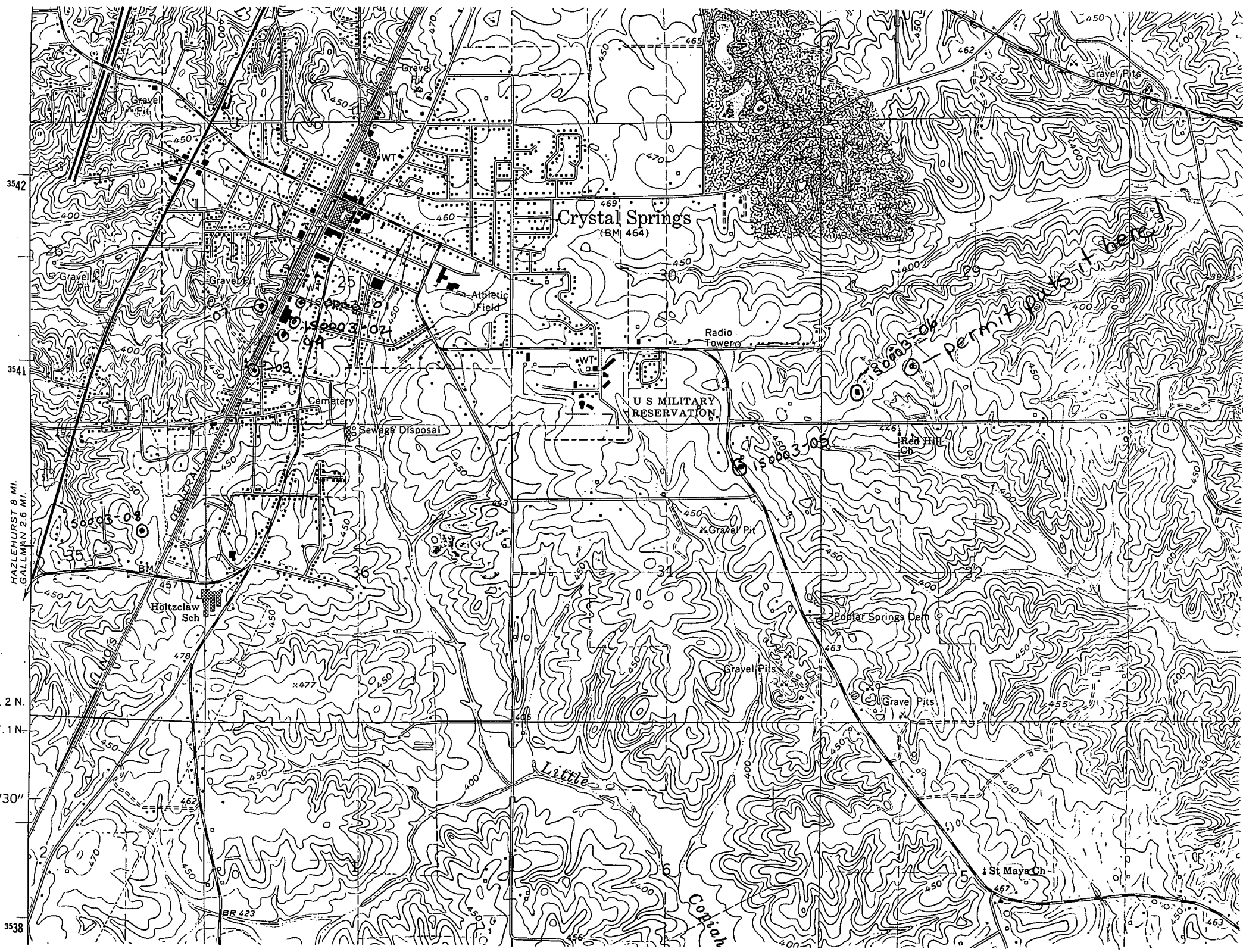
Radio
Towers

U.S. MILITARY
RESERVATION

Grave Pit

Post Office

Vertical text along the left edge of the map, likely a scale or coordinate indicator.



3542

3541

2 N

11 N

12 N

3538

HAZLEHURST 8 MI.
GALLMAN 2.6 MI.

Crystal Springs
(BM 464)

U.S. MILITARY
RESERVATION

Holtzclaw Sch

Little

Cordish

St. Maya Ch

Permit Pits

Radio Tower

Athletic Field

Sewage Disposal

Red Hill Ch

Poplar Springs Cem

Gravel Pits

Gravel Pit

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