GW01911

WRD Exp. (GW)
April 1966

TRANSMITTED FOR ADP

Well No. H5

0 230015-02

# WELL SCHEDULE

E-log #36

U. S. DEPT. OF THE INTERIOR — GEOLOGICAL SURVEY — WATER RESOURCES DIVISION

PUNCHED

## MASTER CARD

Dead Tiger Creek

Record by Ray Newsome  Source of data Driller  Date 4/17/64  Map Logtown 1:24,000

State [28]  County (or town) Hancock [23]

Latitude: [30 22 27 N] deg min sec N S  Longitude: [089 37 30] deg min sec  Sequential number: [1]

Lat-long accuracy: [1]  T. 8 S R. 16 W Sec. 5, NW¼, NE¼, SW¼

Local well number: [H 005 C A 05 08 516 W]  Other number: B & M Potable Well No. 2

Local use: [009]  Owner or name: NASA - MTF

Owner or name: [NASA MTF]  Address: Bay St. Louis, Miss.

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

Use of water: (A) Air cond, (B) Bottling, (C) Comm, (D) Dewater, (E) Power, (F) Fire, (H) Dom, (I) Irr, (M) Med, (N) Ind, (P) P S, (R) Rec, (S) Stock, (T) Instit, (U) Unused, (V) Repressure, (W) Recharge, (X) Desal-P S, (Y) Desal-other, (Z) Other  IT  [P]

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

DATA AVAILABLE: Well data [1]  Freq. W/L meas.:  [C]  Field aquifer char.  [T]

Hyd. lab. data: PCGLL  [ ]

Qual. water data; type: USGS  [C]

Freq. sampling: 6 mos.  [S]  Pumpage inventory: yes (no) period:  [ ]

Aperture cards: yes  [ ]

Log data: Driller, Electric  [D E]

## WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD  Depth well:  ft [1481] Meas. rept  accuracy [4]

Depth cased: (first perf.)  ft [1420]  Casing type: Steel; Diam.  in [12]

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, (Φ) open end, (P) perf., screen, sd. pt., (S) shored, (T) open hole, (Z) other  [G]

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

Date Drilled: 4/64  [964]  Pump intake setting:  ft [ ]

Driller:  name Carloss,  address Memphis, Tenn

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

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

Descrip. MP Top of tee / 7  ft above below LSD, Alt. MP 32

Alt. LSD: 25  [25]  Accuracy: (source)  [4]

Water Level 78.5  ft above below MP; Ft above below LSD  [+86]  Accuracy:  [7]

Date meas: 5/6/64  [564]  Yield:  gpm  [1089]  Method determined  [ ]

Drawdown:  ft  [78]  Accuracy:  [6]  Pumping period  hrs [ ]

QUALITY OF WATER DATA: Iron  ppm [0]  Sulfate  ppm [ ]  Chloride  ppm [1]  Hard.  ppm [0]

Sp. Conduct  K x $10^6$ [3]  Temp. 87 °F [87]  Date sampled 10/29/65 [065]

Taste, color, etc.

Well No. H5

Well No. H5

Latitude-longitude 30 d 22 m 27 s N 089 d 37 m 30 s

## HYDROGEOLOGIC CARD

SAME AS ON MASTER CARD [1–19]

Physiographic Province: [20–21] 03 Section: [26]

Drainage Basin: [22] D Subbasin: [23–25] 13V

Topo of well site: (D) depression, (C) stream channel, (E) dunes, (F) flat, (H) hilltop, (K) sink, (L) swamp, (Φ) offshore, (P) pediment, (S) hillside, (T) terrace, (U) undulating, (V) valley flat [27] F

MAJOR AQUIFER: system, series [28–29] TM, aquifer, formation, group PCBLL [30–31] MZ

Lithology: [32–33] 3S Origin: [34] 3 Aquifer Thickness: 60 ft

Length of well open to: [35–37] 60 ft Depth to top of: [38–40] 63 ft [41–43]

MINOR AQUIFER: system, series [44–45], aquifer, formation, group [46–47]

Lithology: [48–49] Origin: [50] Aquifer Thickness: ft

Length of well open to: [51–53] ft Depth to top of: [54–56] ft [57–59]

Intervals Screened: 1418-1481 .030"

Depth to consolidated rock: [60–63] ft Source of data: [64]

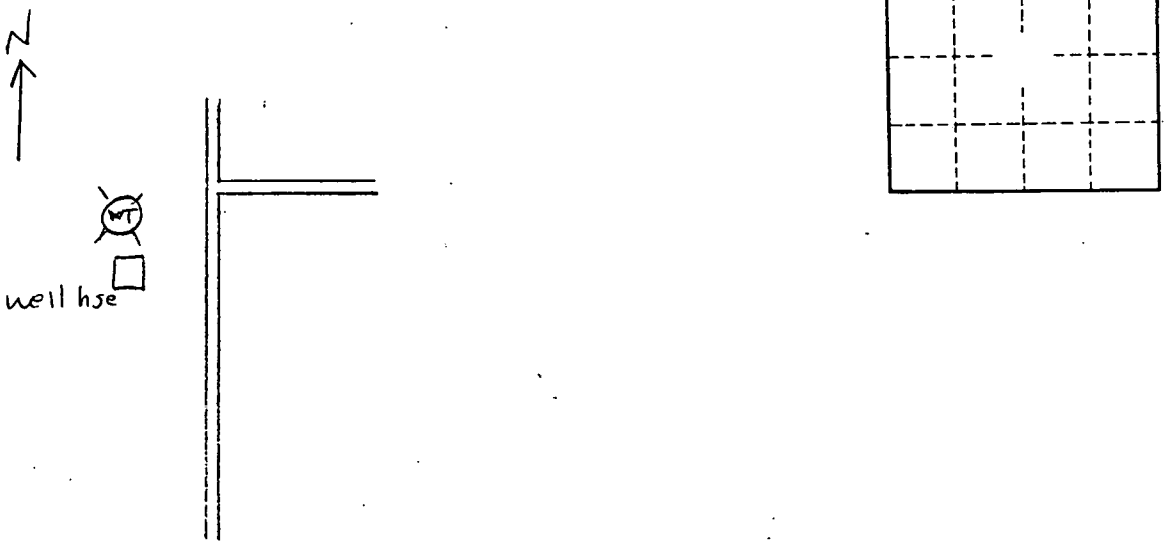
Depth to basement: [65–68] ft Source of data: [69]

Surficial material: [70–71] Infiltration characteristics: [72]

Coefficient Trans: [73–75] gpd/ft Coefficient Storage: [76–78]

Coefficient Perm: gpd/ft²; Spec cap: 14 gpm/ft; Number of geologic cards: [79]

Casing 12x8
Screen 8" Carboss .030"
Gravel walled




Well No. H5

GPO 857-700

HANCOCK MISSISSIPPI BOARD OF WATER COMMISSIONERS

H 2006
7-64 H5

# WATER WELL DRILLERS LOG

K

Date: July, 1964, Driller: Carloss Well Supply County Hancock
(Name)

(1) Owner of Land: U.S. Army - Corps of Engineers - (Name)
Miss. Test Facility, Miss. (Address)
Potable Water Well # 2

(2) Location: ____¼, ____¼, Sec. ____ T ____ R ____,
____ miles ____ (distance) (direction), of ____ (Nearest Town),

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

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

Information upon completion of well:

(1) Diameter 12" inches.

(2) Total Depth 1481 feet.

(3) Water Level Plus 78.5 feet below top of ground.

(4) Cased to 1420', Size 12",

(5) Screen: Size 8", Length 63'.

(6) Were any formations sealed against pollution?

X yes, ____ no.

If YES depth of formation Cemented Casing

Why ____

Drillers Remarks: ____

| Description & Color of Materials Sand, Clay, Red Clay, Shell, etc. | Thickness Feet | Depth Feet |
|---|---|---|
| SEE ATTACHED FORMATION TEST DATA SHEET | | |

DEC 4 1964
MISS. BOARD OF WATER COMMISSIONERS

(Use Back Side)

Well No.

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

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

SEP 1 6 1996

Dept. of Environmental Quality
Land & Water Resources

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

This box is for office use only. 5-28-96 AGN.

FORM OLWR-AP-2 (REV. 9/94)

| | | | |
|---|---|---|---|
| Issued: 3-11-86 | Expires: 3-11-2006 | Fee Paid: | Permit No. |
| Lat. 30-22-32 | Long. 89-37-29 | Elev. 25 | USGS No. H5 |
| Quad. Dead Tiger Creek | ASCS Farm No. | STAC. | MSDOH No. 2300 15-02 |
| Aquifer: LPCGL | Tract No. | | Basin No. |
| Remarks: | | | Dam Inv. No. |

**THIS APPLICATION IS FOR** (Circle one): **NEW PERMIT** **RENEWAL** - **PERMIT NO.** MSGW-01911

**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: Domestic Supply to Elevated Tanks

## SECTION A (to be completed by ALL APPLICANTS)

**LANDOWNER:** National Aeronautics and Space Administration
Roy S. Estess, Director (Name) — Tax ID #177 Facility ID #1612300 (SSN or Tax ID No.)

John C. Stennis Space Center (Address)

Stennis Space Center (City) MS 39529-6000 (State & Zip) ( 601 ) 688 - 2121 (Telephone No.)

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

F. Y. Kailiwai-Barnett, Director, Center Operations (Name) — Tax ID #177 (SSN or Tax ID No.)

MAP sent

Building 1100 (Address)

Stennis Space Center (City) MS 39529-6000 (State & Zip) ( 601 ) 688 - 2004 (Telephone)

**Location of diversion/withdrawal point** (A suitable map with location marked must accompany this application):

NE 1/4 of the SW 1/4 of Section 05, Township 08S, Range 16W, County Hancock

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:** ~~Miocene Aquifer System~~ LPCGL **MISSISSIPPI DEPARTMENT OF HEALTH NO.:** 0230015 ~02

2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
If well has already been drilled, when was well completed (date)? July, 1964. Under whose name was well originally drilled (if known)? _____

3. Description of proposed or completed well:
(a) DEPTH OF WELL: 1481 feet. DRILLER: Carloss Well Supply
(b) SURFACE CASING: Length _____ feet; Diameter(s) 12.8 inches; Type _____
(c) SCREEN: Length 63 feet; Diameter 8 inches; Type _____
(d) PUMP: Type Horiz. Centri; Size 30 HP; Capacity 600 gallons per minute; Setting depth Surface feet
(e) POWER UNIT: Type _____; Size _____ horsepower

4. **PERMITTED VOLUME:**
(a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
(b) 0.X, 25 million gallons per day at a maximum rate of 425 gallons per minute

2 X

***(CONTINUED ON BACK)***

425

## 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 _____ or (b) The number of connections is _____
   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? _____ (Volume) _____ (Year); _____ (Volume) _____ (Year); _____ (Volume) _____ (Year); _____ (Volume) _____ (Year)
4. **INDUSTRIAL** : If the water is to be released into a water course, 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): Domestic Supply to Elevated Tanks
7. **REMARKS**: _____

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

Ronald G. Magee
(Name)

Building 1100
(Address)

Stennis Space Center, MS 39529-6000
(City, State, Zip)

(601) 688-7384
(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.

Director, Center Operations

(Signature)

Subscribed and sworn to before me this 12th day of Sept., 19 95, at Hancock County of Mississippi

My commission expires May 12, 1997 ; _____ Notary Public.

# DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

## PUBLIC SUPPLY WELLS PROJECT

## GPS LOG

USER NAME(S): Hornbeak DATE: 8/20/96

UNIT DEQ #: 82859 FILE #: B0820 23A

HEALTH DEPT. #: 23001 5 - 02 ELEV. 25

USGS #: H-5 OLWR #: MS-GW 01911

OWNER: NATL. Space Technology Lab QUAD: Dead Tiger Creek

LOCATION: SW-NE-SW S 5 T 8S R 16W COUNTY: Hancock

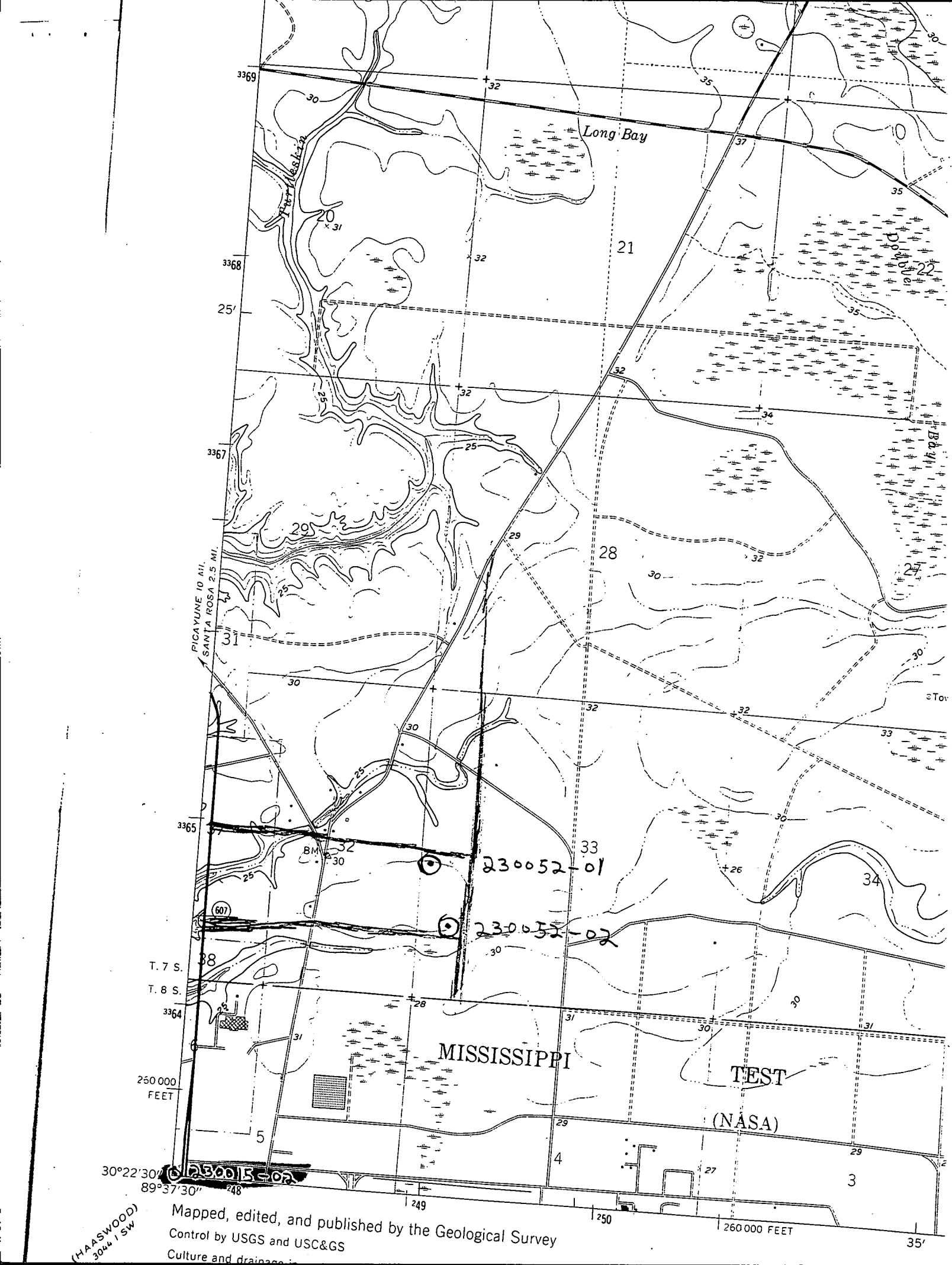
LOCATION DESCRIPTION: In Cement Bldg on South side of Elev. Tank on west side of Shuttle Parkway (SW - of across-from) Intersection with Saturn Dr. (Stennis Space Center)

CASING DIA: 16" PUMP TYPE & SIZE: HP Elec.

GPS FIELD LOCATION: LAT. 30° 22' 32.6" LONG. 89° 37' 29.4"

GPS CORRECTED LOCATION: LAT. 30.37566470 LONG. 89.62463823

REMARKS: GPS at Well.


Long Bay
Pearl River
Bay
PICAYUNE 10 MI.
SANTA ROSA 2.5 MI.
BM 30
230052-01
230052-02
230015-02
MISSISSIPPI
TEST
(NASA)
T. 7 S.
T. 8 S.
250 000 FEET
260 000 FEET
30°22'30"
89°37'30"
(HAASWOOD) 3044 I SW
Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Culture and drainage