Deep well at Whiting Gate SR 10

FORM 9-1842C (Dec. 68)

Well No. 304252N0870022.1

WELL SCHEDULE

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

MASTER CARD

Record by C.A. PASCALE Source of data USGS TEST WELL Date 2/7/74 Map MILTON QUAD 15' 1/62500

State FLORIDA [12] County (or town) SANTA ROSA [57]

Latitude: 30 42 52 N [1] Longitude: 087 00 22 [2] Sequential number: [1]

Lat-long accuracy: [1] T. 2 S, R. 28 W Sec. 1, SE ¼, NW ¼, NW ¼ TALLAHASSEE B & M

Local well number: 1S400 2 [1114] Other number: 1S400-2

Local use: 02N28W01 Owner or name: U.S. GEOLOGICAL SURVEY

Owner or name: US GEOL SURVEY Address: TALLAHASSEE, FLA.

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

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

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

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

Hyd. lab. data: HYD COND, POROSITY, MINERALOGY, SPECIFIC STORAGE, PORE SIZE [R]

Qual. water data; type: COMPLETES AND SEVERAL PARTIALS [M]

Freq. sampling: 1/14/74 IRREG. [I] Pumpage inventory: yes (no) period: [ ]

Aperture cards: yes [ ]

Log date: DRILLERS, TIME, GEOLOGIC, CALIPER, CONDUCTIVITY, GAMMA-RAY GAMMA-GAMMA, TEMP. NEUTRON [3]

WELL-DESCRIPTION CARD

SAME AS ON MASTER CARD — Depth well: 1290 ft 1290 Meas rept MEAS accuracy [0]

Depth cased: (first perf.) 985 ft [9 8 5] Casing type: *6X5 STEEL Diam. 6 in [6]

Finish: (C) porous concrete, (F) gravel w. (perf.), (G) gravel w. (screen), (H) horiz. gallery, end, (O) open perf., screen, sd. pt., shored, (K) open hole, other (B) [X]

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, other (B) [H]

Date Drilled: 1/9/74 [9 7 4] Pump intake setting: NA ft

Driller: THOMASON DRILLING COMPANY, FORT WALTON BEACH, FLORIDA (name, address)

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

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

Descrip. MP: TOP 6" CASING 4.00' above/below LSD, Alt. MP 129.05

Alt. LSD: 125.05 [1 2 5] Accuracy: (source) INST. LEVELS [0]

Water Level: -11.17 ft above/below MP; ft above/below LSD [7] Accuracy: MEAS [4]

Date meas: 2/1/74 [2 7 4] Yield: 50 gpm [5 0] Method determined [4]

Drawdown: 50.6 ft [5 1] Accuracy: MEAS. [0] Pumping period 8 hrs [8]

QUALITY OF WATER DATA: Iron 0.10 ppm [1] Sulfate 54 ppm [0] Chloride 330 ppm [4] Hard. 21 ppm [2]

Sp. Conduct 560 micromhos x 10^6 [5] Temp. 30.0 C [3 0 0] Date sampled 1/16/74 [1 7 4]

Taste, color, etc. COLOR 8 UNITS, TURB 8. [60]

* 880'-6" ← Tele (880)
105-6"

Well No. 304252N0870022.1

HYDROGEOLOGIC CARD

Latitude-longitude 30 42 52 N 87 00 22 (d m s)

SAME AS ON MASTER CARD — Physiographic Province: COASTAL PLAIN [03] Section: FLORIDAN/SECTION [C] Drainage Basin: BLACKWATER [120] Subbasin: [ ]

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

MAJOR AQUIFER: TERTIARY system, EOCENE series [TE] LOWER FLORIDAN aquifer, formation, group [1F]

Lithology: LIMESTONE [L] Origin: MARINE [G] Aquifer Thickness: ft

Length of well open to: 305 ft [305] Depth to top of: 980 ft [980]

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: NONE

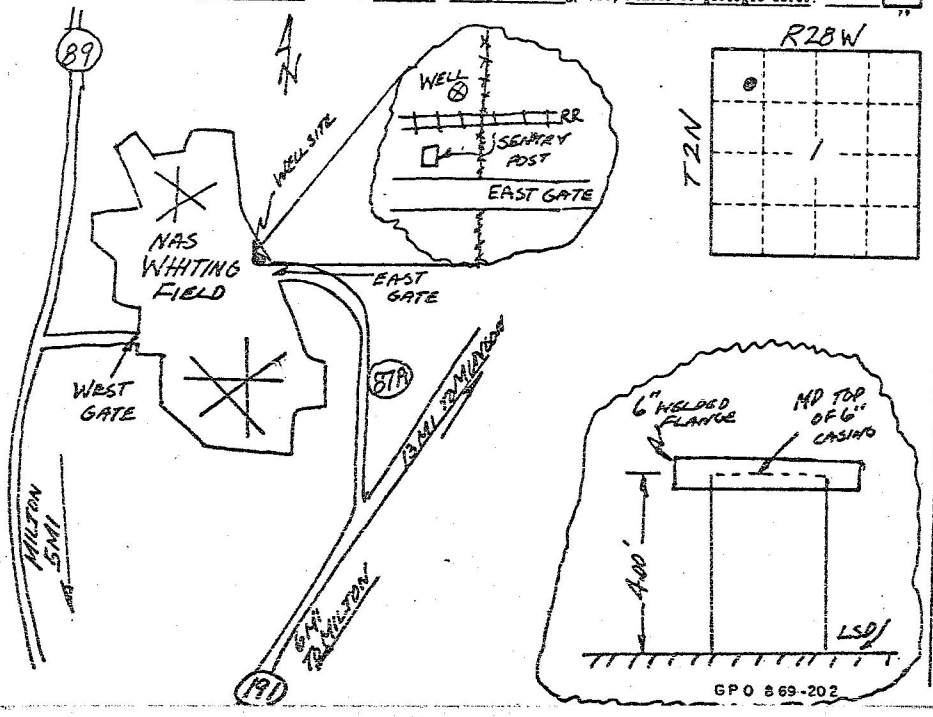
Depth to consolidated rock: 620 ft [620] Source of data: GEOLOGISTS & GEOPHYSICAL LOGS [C]

Depth to basement: ft Source of data:

Surficial material: SAND [S] Infiltration characteristics: FAIR [3]

Coefficient Trans: 3900 gpd/ft [392] Coefficient Storage:

Coefficient Perm: gpd/ft²; Spec cap: 1.0 gpm/ft; Number of geologic cards:



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GPO 869-202

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT E. Whiting Field - Deep FILE NO. SR-10

Yellow River Test I

WELL NUMBER . BASIN . LAT. 30°42'52" LONG. 87°00'22" COUNTY Santa Rosa DATE 9/20/78 PERMIT NO.

LOCATION T 2N R 28W SEC 01 SE¼ of NW¼ of NW¼ MAP OR QUAD Milton North (1:24000)

OWNER U.S. G.S. avg. depth = 1290. ADDRESS

WELL DEPTH 1183 ft. CASED 983 ft. OPEN HOLE 200 ft. WELL FINISHED: SCREENED OPEN HOLE ✓

START OF LOG LSD ± 0 ft. TOP OF CASING TO LSD 4.0' DEPTH LOGGED TOP 081- ft. BOTTOM 1183 ft. TOTAL FT. LOGGED 7098'

CONDITION DATE DRILLED 1/9/79 GROUTED ? DATE CAPPED TYPE OF CASING STEEL SIZE 0'-836' = 6" 836'-983' = 5"

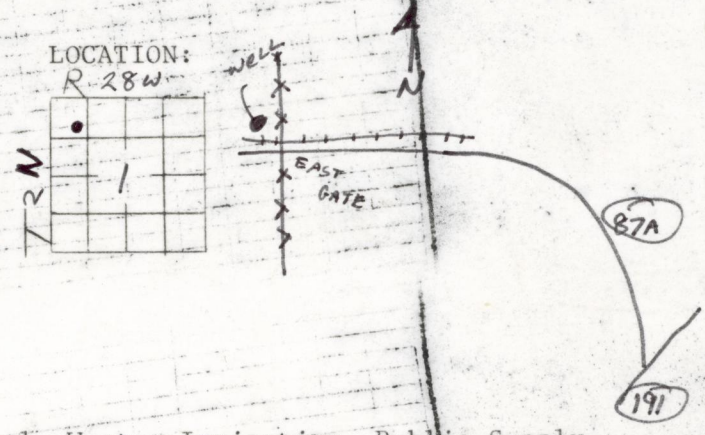
FLOWING NO GPM HEAD IN. TOP OF LS LSD MSL ELEVATION OF LSD TO MSL 125.05'

FORMATION FORMATION TOP REFERENCE TO LSD ft. MSL ft.

AQUIFER Floridan (Lower) WATER LEVEL REFERENCE TO LSD +4 ft. MSL 129.05 ft. ARTESIAN HEAD ft.

TYPE OF LOG	INTERVAL TO		VERT. SCALE	HORZ. SCALE	DIRECTION LOGGED	SPEED FT./MIN.	REMARKS
Gamma ccl TC=2	0	1178	1"50ft.	200CPS	UP	25	
Caliper-Arms= 16"	818	1182	20	4"-16"	UP	30	
Temp w/ccl	0	1180	50	—	DOWN	30	
Fluid Resistivity	0	1183	50	0-20Ω	DOWN	30	
Electric							001-
Flow Meter							
Sampler		1150					1 Liter
Neutron							
(Second Gamma) w CCL	0	1183	20	200 CPS	UP	25	

LOCATION: R-28W



USE OF WELL Anode Drainage Observation ✓ Oil-Gas Recharge Test Abandoned Withdrawal Waste Irrigation Public Supply

QUALITY WATER SAMPLE Yes No ✓ Date Depth(s) pH Salinity Conductivity Temp. Chloride

DRILLER THOMASON WELL DRILLING TYPE OF RIG ROTARY PUMP INTAKE DEPTH N/A TYPE OF PUMP N/A hp N/A DRILLER SAMPLES NO

Start of Logging Finished logging Total Time hr. Operator/observer Kwader / Lester

Well Accessibility

Lithological Summary

09-

REMARKS: LOGS ON FILE @ USGS: DRILLERS TIME, GEOLOGIC, CALIPER, CONDUCTIVITY, NATURAL GAMMA, GAMMA-GAMMA, TEMP, NEUTRON

THIS LOG FOR HYDROGEOLOGICAL DATA ONLY - NOT FOR CONTRACTUAL SATISFACTION

NWFWMD Form No.

Whiting Lower Florida
NWF_ID 4700 SR 10
Logged by: Kwader / NWFWMD

CALIPER

-820

-6"

- Transition = 836'

-5"

-850

-900

-950

- Bottom of Casing = 983'

-1000

-1050

-1100

-1150

- Cavity from Sand lense ?
MAY be filling in Original T.D. = 1285

T.D. = 1183'

4" 6" 8" 10" 12" 14" 16"

Fluid Conduct

Whiting Lower Floridan
NWF_ID 4700 SRID
Logged by: Kwader / NWFWMD

1/10 Ω

0
100
200
300
400
500
600
700
600
700
800
900
1000
1100

← Fluid Changes →

← Fluid Changes →

Bottom of Casing 983'

T.D. = 1183

NWF_ID 4700 SR10
Logged by: Kwader /NWFWMD
9-20-78
Whiting Lower Floridan

NATURAL GAMMA

0
100
200
300
400
500
600
700
800
900
1000
1100
1200

LPC

UFA

Tampa
Chickasawhay

Buc. Clay?

BOC

LS

UFA

OCALA

Fluid Level = +4'

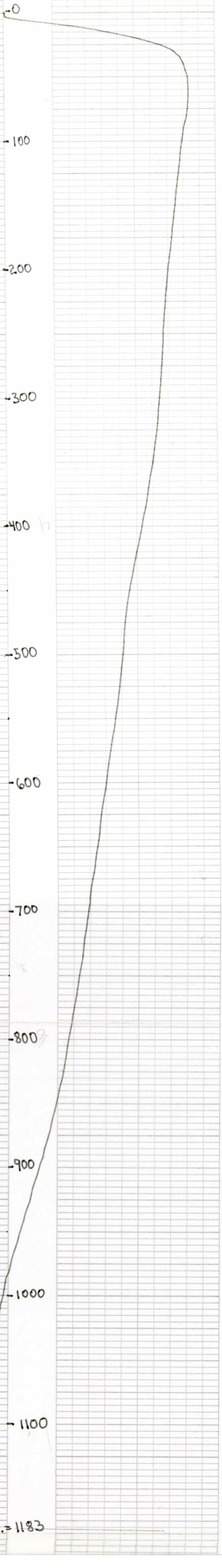
TEMPERATURE

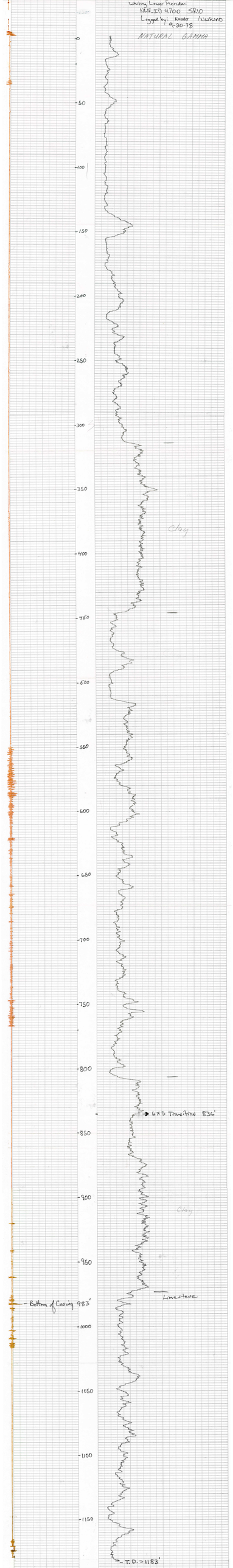
NWF_ID 4700 SRD

Logged by: Kwader / NWFWMD

9-20-78

Whiting Lower Floridan




Watkins Lower Meridian
NGS ID 4700 SR10
Logged by: Kwader / Wetland
9-20-78
NATURAL GAMMA
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
1100
1150
Clay
Clay
6 x 5 Transition 836'
Limestone
Bottom of Casing 983'
T.D. = 1183'