Executive Summary
ROMP Site No. 32
Two Monitor Wells

Location - ROMP Site No. 32 is located next to an orange grove along State Route No. 64 approximately .6 mile west of the Manatee-Hardee County line in Manatee County. The site is located in Section 36, Township 34 South, Range 22 East and at latitude 27°28'12", longitude 82°03'51".

Site Easements - This site was obtained from W. H. and Opal B. Rooney on June 22, 1977 for the sum of one dollar. The Perpetual Easement is 20 feet by 20 feet and the Temporary Construction Easement which adjoins the Perpetual Easement is 30 feet by 50 feet. The Temporary Easement was also obtained on June 22, 1977 for a period of 12 months and expired on June 21, 1978. A Release of Oil and Gas Lease was obtained on July 15, 1977 from the Mobil Oil Corporation. These documents are recorded in O.R. Book 858, Pages 443 through 454. An additional Temporary Construction Easement was obtained from the same party on April 24, 1979 for a period of 6 months in order to repair one of the monitor wells that the Contractor failed to complete. This Easement expired on October 23, 1979 and is recorded in O.R. Book 954, Pages 631 and 632 in the Manatee County Courthouse.

Geology - This site is located on the southern edge of the Sunderland Terrace at an elevation of approximately 104 feet above mean sea level (MSL). Geologic information was obtained from drill cuttings from land surface to 1215 feet below land surface datum (LSD). The general geology of the site is as follows:

| | |
|---|---|
| 0-25 | Sand |
| 25-208 | Hawthorn Formation |

| | |
|---|---|
| 208-450 | Tampa Limestone |
| 450-710 | Suwannee Limestone |
| 710-958 | Ocala Group |
| 958-1215 | Avon Park Limestone |

Hydrogeology - There are two principle artesian aquifers at this site. The first artesian zone is found in the lower Tampa and most of the Suwannee limestones. This zone is separated from the water table by the upper Tampa and Hawthorn limestones and clays which act as a confiner. Except for an area between 172 and 208 feet below LSD which is mostly limestone, this confining layer is approximately 300 feet thick.

The second artesian zone is found in the lower Ocala group and Avon Park limestone. It is separated from the first artesian aquifer by the upper Ocala group which is tight and acts as a confining layer.

No pumping tests were conducted at this site.

Well Construction - These wells were constructed under Contract 688, the Myakka Head Contract, by Meridith Corporation.

1. Well No. 1 - the deep well or Avon Park Monitor was constructed between October 3 and November 18, 1977 for a Contract amount of $61,745.15 or $50.82. During the construction of this well and in more particular during the grouting operation a rupture occurred in the PVC well casing between 260 and 262 feet below LSD. Terms were reached between the District and the Contractor where it was agreed that the District would repair the well with a liner. This work was completed between August 13 and 16, 1979 at a cost of $

This well was constructed by using 150 feet of 14 inch steel casing and 60 feet of 8 inch with a reducer to a 6 inch and 849' of 6 inch PVC for a total of 909 feet of PVC well casing. After the casings were grouted

in place the well was drilled out to a total depth of 1255 feet below LSD.

The liner at this site consists of 40 feet of 4 inch PVC that was equipped with a shale packer and assorted rubber rings at the bottom inorder to form a seal between the 4 and 6 inch pipe. This liner was set between the depth of 240 to 280 feet and grouted in order to seal off the ruptured area in the 6 inch PVC.

B. Well No. 2 - the shallower or Suwannee monitor well was constructed between November 23 and December 21, 1977 at a cost of $33,865.25 or $56.44 per foot.

The Suwannee well was constructed by using 150 feet of 14 inch steel casing and 560 feet of 6 inch PVC well casing both of which were grouted in place. The well was then drilled out to 592 feet.

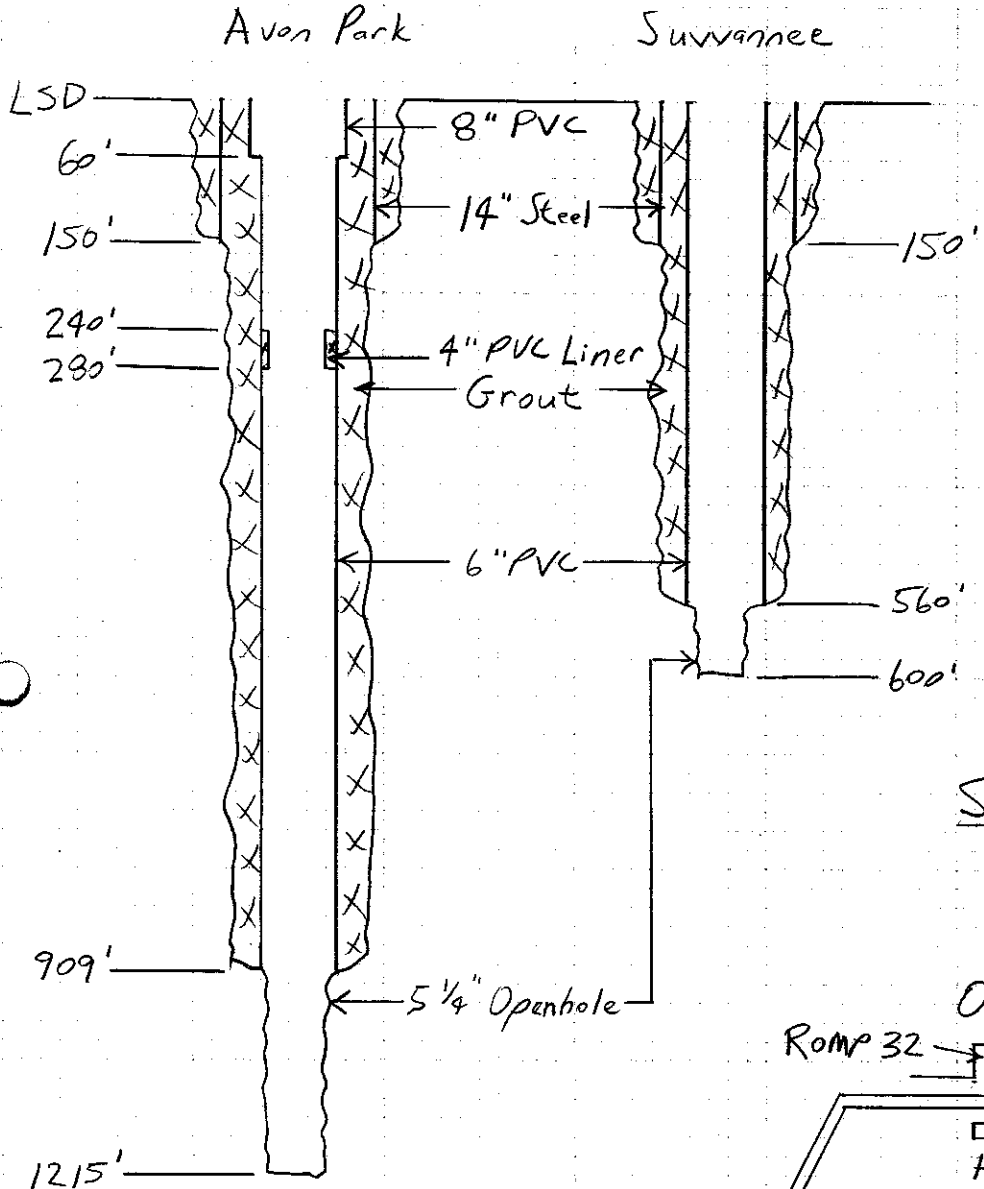
Geophysical Logs - Electric, caliper, gamma, fluid resistivity, temperature, neutron, and acoustic-velocity logs were run on the Avon Park well.

Type of Monitor - Both of these wells are designed to monitor potentiometric levels. The shallower well is used to monitor the artesian levels in the Suwannee Limestone and the deep well to monitor the Avon Park limestone.

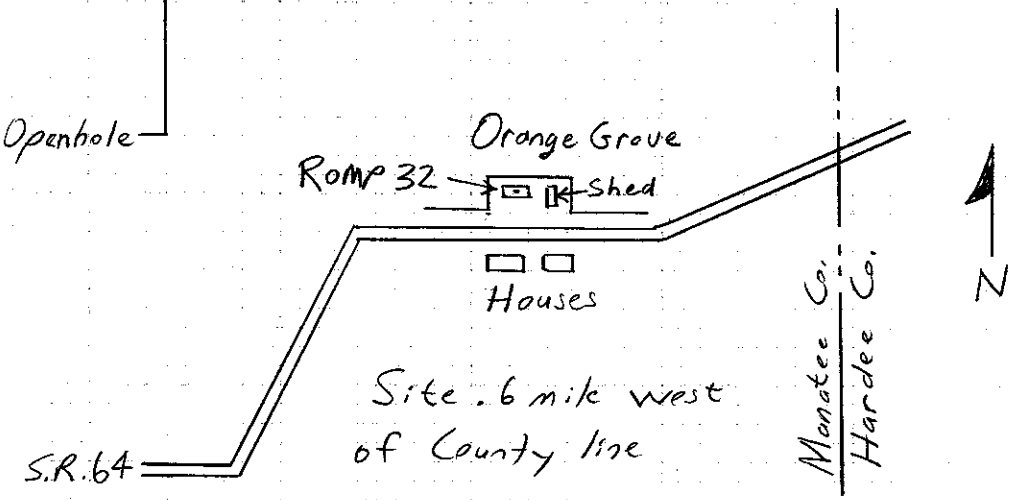
Water Quality - Apparently no water samples were collected during the construction of this well.

U.S.G.S. Notification - SWFWMD Technical Information Section was notified on 10/1/79 that these wells are complete and ready for monitoring.

# WELL DIAGRAMS

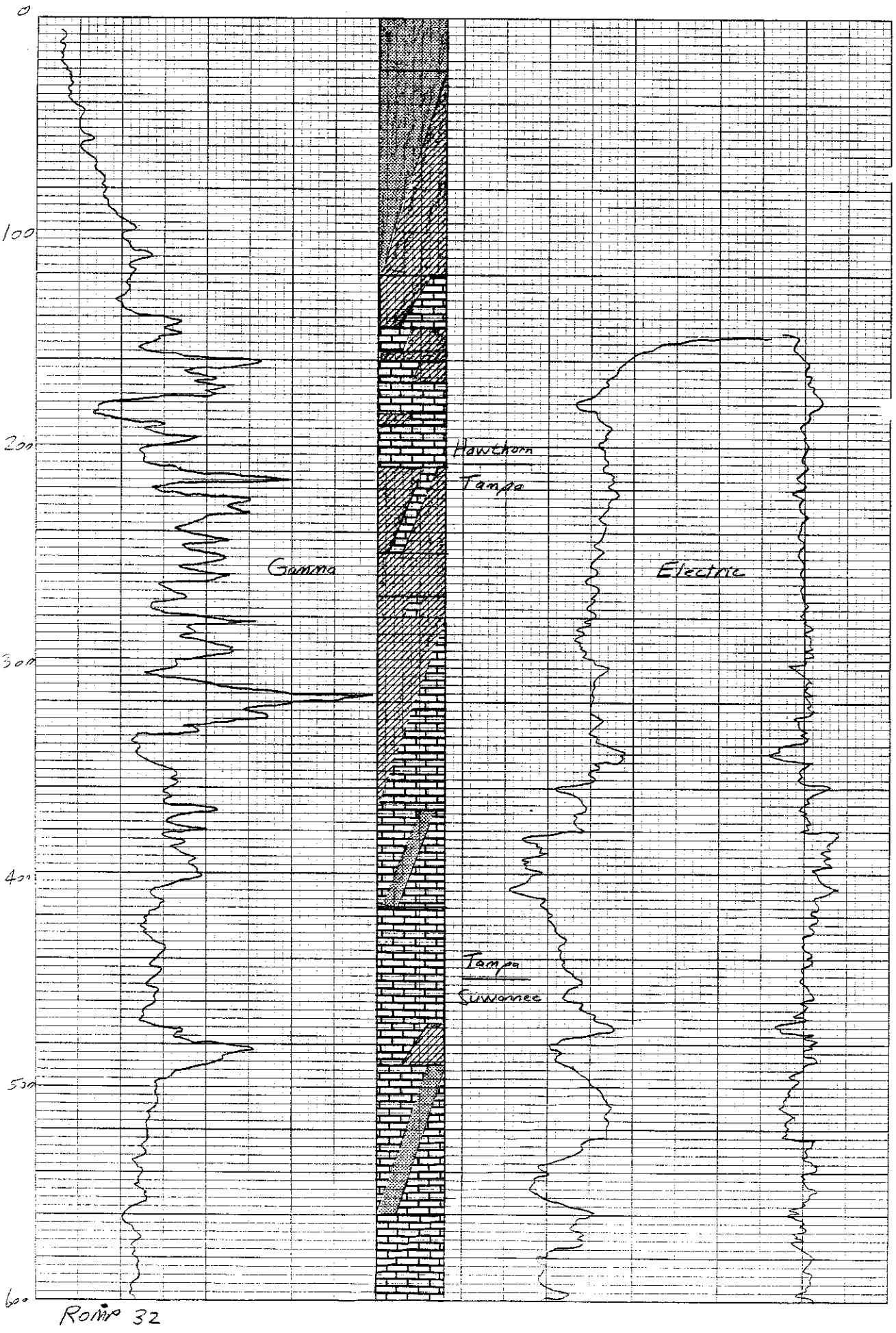


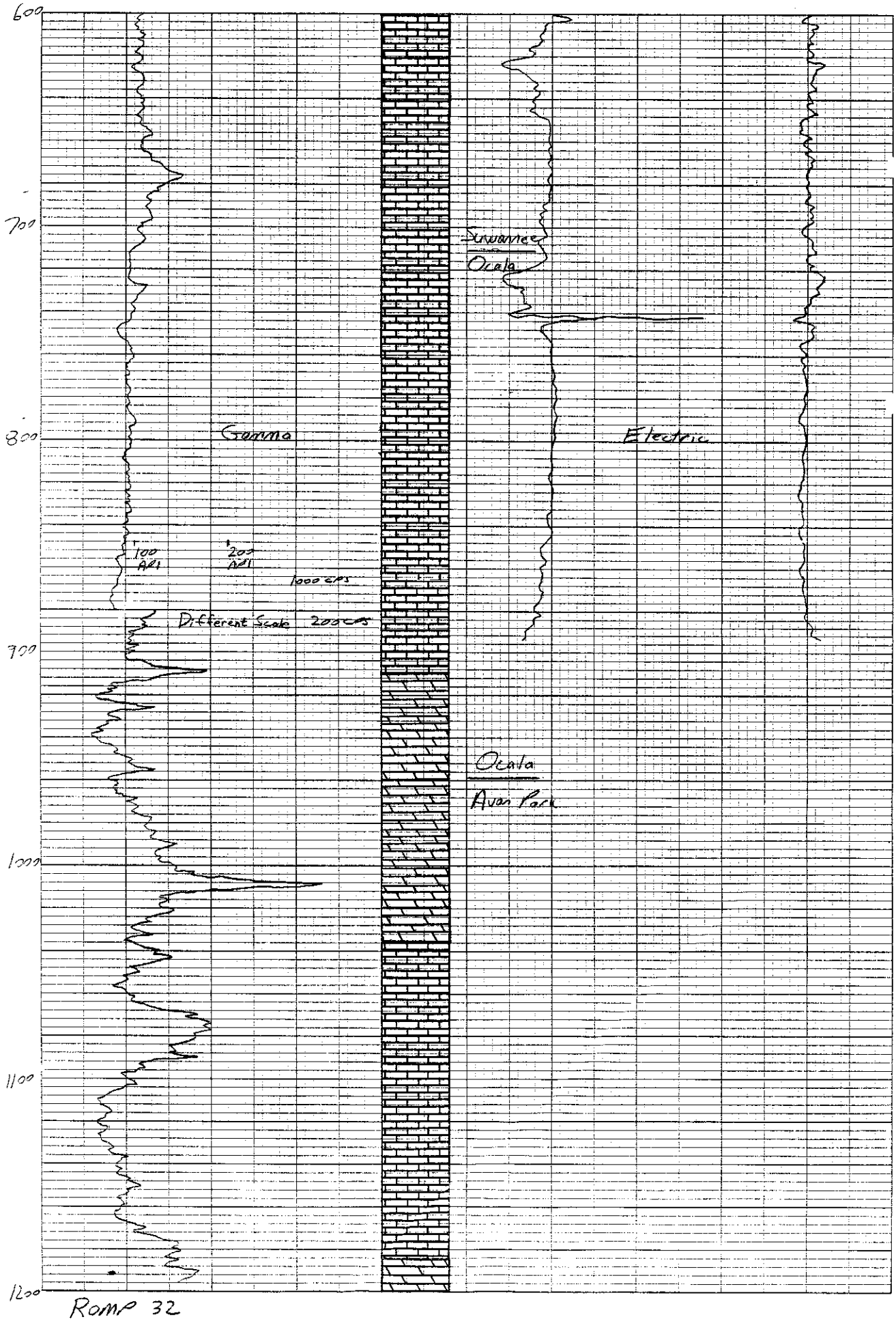

## SITE LOCATION




Site .6 mile west of County line

S36, T34, R22
Manatee Co.




600
700
800
900
1000
1100
1200
Suwannee
Ocala
Gamma
Electric
100 API
200 API
1000 CPS
Different Scale 200 CPS
Ocala
Avon Park
Romp 32

LITHOLOGIC WELL LOG PRINTOUT

SOURCE - FBOG

WELL NUMBER: W-16257
TOTAL DEPTH: 00060 FT.
S.36
20 SAMPLES FROM 1 TO 60 FT.
10S

COUNTY - MANATEE
LOCATION: T.34S R.22E

LAT = 27D 28M

LON = 82D 03M

45S
COMPLETION DATE: N/A
OTHER TYPES OF LOGS AVAILABLE - NONE

ELEVATION:N/A FT

OWNER/DRILLER:S.W.F.W.M.D. [ROMP SITE 32]

WORKED BY:RICHARD GREEN (5-1988)

0 - 1 SAND; VERY LIGHT ORANGE TO GRAYISH BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: PLANT REMAINS-05%, ORGANICS-10%
CLAY-03%, HEAVY MINERALS-01%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

1 - 3 SAND; VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO COARSE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: PLANT REMAINS-01%, CLAY-02%
HEAVY MINERALS-01%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

3 - 5 SAND; GRAYISH BROWN TO DARK YELLOWISH BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO FINE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: HEAVY MINERALS-01%, CLAY-01%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

5 - 7 SAND; GRAYISH BROWN TO DARK BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: HEAVY MINERALS-01%, ORGANICS-10%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

7 - 9 SAND; DARK BROWN TO GRAYISH BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MICROCRYSTALLINE TO COARSE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): ORGANIC MATRIX

ACCESSORY MINERALS: ORGANICS-35%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

9 - 11 SAND; DARK BROWN TO GRAYISH BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): ORGANIC MATRIX
ACCESSORY MINERALS: ORGANICS-30%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

11 - 13 SAND; DARK BROWN TO GRAYISH BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): ORGANIC MATRIX
ACCESSORY MINERALS: ORGANICS-30%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

13 - 18 SAND; MODERATE BROWN TO GRAYISH BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: MEDIUM TO VERY FINE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: ORGANICS-25%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

18 - 21 SAND; GRAYISH BROWN TO MODERATE BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: COARSE TO VERY FINE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): ORGANIC MATRIX
ACCESSORY MINERALS: ORGANICS-20%, HEAVY MINERALS-01%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

21 - 25 SAND; MODERATE BROWN TO MODERATE BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: COARSE TO FINE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: ORGANICS-10%, CLAY-05%
HEAVY MINERALS-01%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

25 - 30 SAND; GRAYISH BROWN TO MODERATE YELLOWISH BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO MEDIUM
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: CLAY-05%, HEAVY MINERALS-01%
ORGANICS-05%

OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

30 - 35 SAND; VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO MEDIUM
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: HEAVY MINERALS-01%, CLAY-02%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

35 - 40 SAND; VERY LIGHT ORANGE TO GRAYISH BROWN
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO MEDIUM
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: CLAY-07%, HEAVY MINERALS-01%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS

40 - 45 SAND; LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: FINE TO MEDIUM
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: CLAY-07%, HEAVY MINERALS-01%
PHOSPHATIC SAND-01%, DOLOMITE-01%
OTHER FEATURES: UNWASHED SAMPLE, DOLOMITIC
FOSSILS: NO FOSSILS
1% DOLOMITIC FRAGS.; TAN-GRAY COLOR; PHOSPHATE IS BLACK IN
COLOR

45 - 50 SAND; LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: COARSE TO FINE
ROUNDNESS: SUB-ANGULAR TO ANGULAR; MEDIUM SPHERICITY
POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: CLAY-20%, HEAVY MINERALS-01%
PHOSPHATIC SAND-02%
OTHER FEATURES: UNWASHED SAMPLE
FOSSILS: NO FOSSILS
PHOS. IS BLACK-BROWN, MED. SAND SIZE

50 - 55 SAND; OLIVE GRAY TO DARK GRAY
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: GRAVEL TO FINE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: CLAY-10%, PHOSPHATIC SAND-12%
PHOSPHATIC GRAVEL-03%
OTHER FEATURES: UNWASHED SAMPLE, CALCAREOUS, DOLOMITIC
FOSSILS: SHARKS TEETH
SLIGHTLY DOLOMITIC;PHOS. IS BLK-BROWN, WELL ROUNDED; LARGER
PHOS. FRAGS ARE SHARK TEETH

55 - 60 SAND; OLIVE GRAY

POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE; MEDIUM TO FINE
ROUNDNESS: SUB-ANGULAR TO ROUNDED; MEDIUM SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: CLAY-10%, PHOSPHATIC SAND-10%
OTHER FEATURES: UNWASHED SAMPLE, CALCAREOUS, DOLOMITIC

60 TOTAL DEPTH