

AVPK-S2 (Avon Park-South 2)

FORMATION PICKS -based on geophysical logs and lithology
(depth's are below land surface, land surace approx. 60 ft msl)

Surficial	top	30 feet bls
	bottom	48 feet bls (screened)
Intermediate	top	180 feet
	bottom	200 feet (screened)
Floridan (Upper)	Top	310 feet bls
	bottom	1000 feet bls
Hawthorn Group	top	50 feet bls
Arcadia Formation	top	92 feet bls
Arcadia Formation	bottom	115 feet bls
Hawthorn Confining	top	210 feet bls
Hawthorn Confining	bottom	302 feet bls
Hawthorn Group	bottom	310 feet bls
Suwannee Limestone	top	310 feet bls
Suwannee Limestone	bottom	522 feet bls
Ocala Group	top	522 feet bls
Ocala Group	bottom	740 feet bls
Avon Park Formation	top	740 feet bls
Avon Park Confining	top	1000 feet bls
Avon Park Confining (estimated)	bottom	1183 feet bls
Avon Park Formation (estimated)	bottom	1250 feet bls
Total Depth		1183 feet bls

PILOT WELL AVPK-SZ

LSD ≈ 55

Depth below Land surface

Top of Hawthorn 50'

TOP of ARCADIA 100'

bottom of Arcadia set Surface casing 120'

150

200

Hawthorn Confining

250

HAWTHORN Confining bottom of Hawthorn 300'

TOP of Suwannee 310'

350

400

450

Upper FLORIDAN

500



ORGANICS and SAND w/ DARK BROWN HARD PAN

Brown SANDY CLAY v. FINE SAND

DARK chocolate Brown CLAYEY SAND; Light Quartz Sand, fine Sand CLAY balls
Small whole CLAM, and frag. of shells w/ BLUE green CLAY

Abundent shell frag. w/ Lt Blue CLAY

CONE shape shells w/ shell frag. increasing CLAY CONTENT

50% shell and 50% Light Blue CLAY
20% shell 80% v. Fine sandy CLAY w/ Phos.

sandy CLAY, well cemented, very fine grain, Blue green
sandy CLAY AS ABOVE w/ Dark gray Mollusk shell fragments.

Dark gray Mollusks shell frag with well cemented fine silty SAND,
and pebble sized phosphate (phos.)

shell frag. with white silty CLAY and frag. of dk gray / Light green
plastic CLAY and 10% TAN Limestone, and pebble sized phos.
CLAY, silt, v. PLASTIC, olive green w/ pebble sized phos.
Limestone, CARBONACEOUS, white to cream, w/ pebble to
Sand sized phos. Quartz sand

Limestone, dense fine crystalline, cream to tan and mollusk frag.
and phosphatic

Limestone, granular, dense fine crystalline, Cream to tan to
Light gray frag. of Limestone.

Limestone, Lt gray hard FLAKES and shell frag.

Limestone, granular, FLAKY, cream to white, cream to tan
porous *Rotilia Mexicana*

42,381 50 SHEETS 5 SQUARE
43,382 100 SHEETS 5 SQUARE
43,389 200 SHEETS 5 SQUARE
NATIONAL

Pilot Well AVPK-52

500

bottom of
Summerell
top ocala

Limestone, chawky, cream, soft with FLAKY LS. and Quartz Sand

Limestone, chawky, cream, soft to hard w/ Light Calcite granulars

550

600

Limestone, granular, porous cream to white silty Limestone
Soft to hard

Same AS above

650

Limestone, granular, cream to tan, soft to hard w/ traces of
Light gray clay
AS above w/

700

Limestone cream to tan with some Light gray, soft to hard, granular
w/ layers of CLAYEY Limestone. (Mictelite)

bottom of Ocala
TOP of AVON

750

Limestone, tan to cream to Light brown Moderately hard, v. Fine
Crystalline, MASSIVE, set in chawky Matrix

Limestone, white to tan granular, soft to moderately hard, with traces
of Light Brown/Tan crystalline v. Fine grain Limestone.

800

Limestone, tan to cream, granular, slightly chawky slightly calcitic
w/ traces of Mictelite.

850

900

Limestone cream to tan Light to Medium dark brown, soft, chawky
to Moderately hard, granular, well indurated.

950

Limestone well indurated, tan to dark gray, Moderately hard
small stringers of hard calcitic Limestone, tan to white
Soft to v. hard.

TOP of Avon
Confining

Caliber Log

Casing 315'

370 - 380

630 - 640

996 - 1001 changed to Reverse-Air

1030 formation has hard/soft litho

1183 - void/wash out?

Single Pt.

553' - 554' hard

840 - 850 soft

1019 - 1022 - soft FLOW ZONE

1092 - 1101 - soft

1112 - 1120 - soft

1170 - 1180 - soft

9-14 - 4 gts

9-15 - 4 gts

9-16 3 gts

11 gts

12.50
11

12.50

12.50

137.50

90.00

47.50

6' Lateral

980 - 982 - soft

1013 - 1023 - soft

1052 - 1183 - v. noisy

CALIBER / NEUTRAL

1113 - high gamma, Neutral

1020 - Flow zone

210 - 220 clay some Porosity

230 - 250 clay low Porosity

250 - 300 - v. Noisy Lots of CLAY / Low Porosity

312 - 400 - Clean Formation

400 - 720 - moderately clean w/ no clay phosphate

750 - 1010 - Clean

1020 - Flow zone

1110 - "

1112 - 1115 - small kick

1132 - " "

W-1704Z

WELL CUTTINGS PROCESSING FORM

SFWMD ID NO.: 055-10 WELL CONST. PERMIT NO.: _____

WELL NAME: AvPK-SZ GEOPHY. LOG AVAIL. Yes No

COUNTY: Highlands SFWMD GEOPHY.# 0550000018

LOCATION: 1/4 of ^{SE}3 1/4 of ^{SW}4 1/4 of Sec. 1 Twp. 34 Rge. 30E

MAP

Latitude: ~~27 32 52~~
27 30 39 Longitude: 81 16 43

Planar X: 409682 Planar Y: 1154922

DRILLER: SFWMD DATE ^{Completed} DRILLED: 9-15-93

DEPTH (ft): 1183 ELEVATION (NGVD): 60-65 TOPO SURVEY

NO. OF SAMPLES: 127 NO. OF SPLITS: 2 DATE SENT: _____

SENT TO: BOG USGS _____ OTHER _____

WATER SAMPLE: CHLORIDES (mg/l) _____
LAB SAMPLE # _____

HYDRAULIC DATA AVAILABLE: *NOT AT THIS WRITING*
SPECIFIC CAPACITY: _____ Yes _____ No
PUMP TEST: _____ Yes _____ No

COMPLETION INFO: PLUGGED TEST MONITOR PRODUCTION

DRILLING METHOD: CABLE TOOL JET AUGER
 ROTARY: Mud Air Reverse Dual Wall

CASING: TYPE: PVC GALV. STEEL 4" to 60' b/s
DIAMETER: 8" INTERVAL: 2" From 60' to 1010'

SCREEN: TYPE: PVC GALV. STEEL
DIAMETER: _____ INTERVAL: OPEN HOLE 1010-1183

GEOLOGIST DESCRIPTION: NO YES _____

COMMENTS: Quad NAME: LAKE ARBONKLE SE
Quad sheet: 054