

## ROMP 8 - Warm Mineral Springs

County: Sarasota  
 Basin: Manasota  
 Latitude: 27 04 39.94  
 Longitude: 82 15 15.17  
 STR: SW1/4, SW1/4, S18 T39S R21E  
 Elevation: 19.2 ft NGVD29

Core Hole SID: 25986  
 WMIS Portfolio No: 109  
 Corehole FGS No.: W-18394  
 Date Completed: May 2010  
 Geologist: James M. Clayton

### Lithostratigraphy

Unit	Top (ft bls)	Bottom (ft bls)	Thickness (ft)	Top (ft msl)	Bottom (ft msl)
Undifferentiated sand, clay, and shells	0	8.8	8.8	19.2	10.4
Caloosahatchee Formation	8.8	15	6.2	10.4	4.2
Hawthorn Group	15	470	455	4.2	-450.8
Peace River Formation	15	41.1	26.1	4.2	-21.9
Venice clay bed	41.1	45	3.9	-21.9	-25.8
Arcadia Formation	45	470	425	-25.8	-450.8
Tampa Member	229	333	104	-209.8	-313.8
Suwannee Limestone	470	822	352	-450.8	-802.8
Ocala Limestone	822	1,084	262	-802.8	-1,065
Avon Park Formation	1,084	1,283		-1,064.8	-1,264

### Hydrostratigraphy

Unit	Top (ft bls)	Bottom (ft bls)	Thickness (ft)	Top (ft msl)	Bottom (ft msl)
surficial aquifer	0	17	17	19.2	2.2
confining unit	17	65	48.0	2.2	-45.8
Hawthorn aquifer system (intermediate)	65	350.1	285.1	-45.8	-330.9
Upper Arcadia aquifer (zone 2)	65	150	85	-45.8	-130.8
confining unit	150	208	58	-130.8	-188.8
Lower Arcadia aquifer (zone 3)	208	350.1	142.1	-188.8	-330.9
confining unit	350.1	515	164.9	-330.9	-495.8
Upper Floridan aquifer	515	1,283		-495.8	-1,263.8
Ocala low-permeability zone	822	936.5	114.5	-802.8	-917.3
Avon Park permeable zone	1,269	1,283		-1,249.8	-1,263.8

### Permanent Wells: 4

Name	Diameter (inches)	Casing Type	Casing Depth (ft bls)	Total Depth (ft bls)	Unit	Screen	SID	WCP
ROMP 8 SURF AQ MONITOR	6	PVC	10	20	surficial aquifer	Yes	25987	654189

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ROMP 8 U ARCA AQ MONITOR	6	PVC	65	150	Upper Arcadia aquifer (zone 2)	Yes	25936	663459
ROMP 8 L ARCA AQ MONITOR REPL	6	PVC	205	353	Lower Arcadia aquifer (zone 3)	No	770430	808879
ROMP 8 U FLDN AQ MONITOR (SWNN)	6	PVC	510	842	Upper Floridan aquifer (SWNN)	No	25937	663461, 730167 (Liner)

### Temporary Wells: 2 (Many wells function as multi-purpose monitors through modifications and/or dual zone design)

Name	Diameter (inches)	Casing Type	Casing Depth (ft bls)	Total Depth (ft bls)	Unit	Screen	SID	WCP
ROMP 8 U ARCA AQ OB TEMP	2	PVC	65	150	Upper Arcadia aquifer (zone 2)	Yes	736961	663456, 730166 (Plug)
ROMP 8 COREHOLE	6	PVC	67	1,283	Upper Floridan aquifer	No	25986	654212, 730165 (Plug)
ROMP 8 L ARCA AQ OB TEMP	2	PVC	205	350	Lower Arcadia aquifer (zone 3)	Yes	736963	663456, 730166 (Plug)
ROMP 8 L ARCA AQ MONITOR ORIG	8	PVC	205	350	Lower Arcadia aquifer (zone 3)	No	25938	663458
ROMP 8 U FLDN AQ OB TEMP (SWNN)	2	PVC	498	819	Upper Floridan aquifer (SWNN)	No	736949	660450, 730165 (Plug)
ROMP 8 EXPL BOREHOLE	12	Steel	510	1075	Upper Floridan aquifer	No	816965	663461

### Lithologic Sampling: Yes FGS Lithologic Log: Yes

Interval Top (ft bls)	Interval Bottom (ft bls)	Sample Type	Comments:
0	45	Hollow-stem auger	
45	1,640	Wire-line coring	

### Discrete Zone Testing: Yes

Interval Top	Interval Bottom	WL	WQ	Slug	Other	Comments:
90	105	X	X	X		
135	155	X	X	X		
208	235	X	X	X		
244	275	X	X	X		
288	315	X	X	X		
288	335	X	X	X		
338	355	X	X	X		
352	395	X	X	X		

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415	435	X	X	X
435	475	X	X	X
464	495	X	X	X
502	535	X	X	X
574	635	X	X	X
654	695	X	X	X
711	735	X	X	X
740	775	X	X	X
775	815	X	X	X
824	855	X	X	X
854	895	X	X	X
896	955	X	X	X
936	955	X	X	X
955	995	X	X	X
993.5	1,044	X	X	X
1,049	1,084	X	X	X
1,094	1,124	X	X	X
1,128	1,164	X	X	X
1,164	1,204	X	X	X
1,204	1,244	X	X	X
1,269	1,283	X	X	X

**Aquifer/Well Testing:** Yes

Unit Tested	Test Type		Comments:
	APT	Specific Capacity	
Upper Arcadia aquifer (zone 2)	X		
Lower Arcadia aquifer (zone 3)	X		
Suwannee permeable zone	X	X	
Ocala low-permeability zone		X	
Avon Park permeable zone		X	

**Geophysical Logging:** Yes

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Name	Caliper	Gamma	Single Point Resistance	Normal Resistivity (16ft and 64ft)	Spontaneous Potential	Lateral	Fluid Resistivity	Specific Conductance	Induction	Temperature	Sonic	Flow	Optical Televiewer
ROMP 8 COREHOLE	X	X	X	X	X	X	X	X	X	X			

### Timeline

Work Phase	Start (dd/mm/yy)	Stop (dd/mm/yy)	Comments:
Coring & Testing	06/04/01	12/04/01	Includes CME construction of surficial monitor-well, conversion of corehole to Suw OB & conversion of exploratory
Well Construction	01/11/02	04/27/02	Contractor construction, Diversified Drilling
APT	08/27/03	11/07/03	
Report Writing		05/20/10	