

**CORE ANALYSIS REPORT**  
**FOR**  
**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**  
**VARIOUS WELLS**



**CORE LABORATORIES**

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**CORE ANALYSIS REPORT**  
**FOR**  
**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**  
**VARIOUS WELLS**

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October 17, 2000

SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
3301 Gun Club Road  
West Palm Beach, Florida 33406

File No.: 57181-18054  
Subject: Core Analysis  
Various Wells  
Florida

Gentlemen:

The subject well was cored using diamond coring equipment and drilled mud to obtain 2 inch to 3 1/2 inch diameter cores from surface to 25 feet from the Tertiary Limestone formation.

Core analysis data is presented in tabular and graphical form for your convenience. A porosity vs. permeability plot was prepared for statistical evaluation. Core analysis data is contained on a 3 1/2 inch computer diskette. Digital core photographs are contained on a CD.

We trust these data will be useful in the evaluation of your property and thank you for the opportunity of serving you.

Very truly yours,

CORE LABORATORIES, INC.

A handwritten signature in black ink that reads "John Sebian".

John Sebian  
Laboratory Supervisor

JS/ym

SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
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Procedural Page

The cores were transported to Midland by South Florida Water Management District.

A Core Spectral Log was recorded for downhole E-log correlation.

Core analysis was made on selected intervals requested on full diameter samples.

Fluid removal was achieved using convection oven drying method.

Direct grain volume measurement was made using Boyle's law helium expansion. Bulk volume was measured by Archimedes Principle on samples after cleaning. Porosity was calculated using bulk volume and grain volume measurements.

$$\text{Porosity} = \frac{\text{Bulk Vol.} - \text{Grain Vol.}}{\text{Bulk Vol.}} \times 100$$

Steady State Air Permeability was measured in two horizontal directions and vertically while the core was confined in a Hassler rubber sleeve at approximately 400 psig hydrostatic stress.

The core was slabbed after analysis.

The slabs were photographed under natural light and ultraviolet light.

Thin section billets were removed from slab and shipped to Core Laboratories in Carrollton, Texas for thin section making. Thin sections are to contain blue epoxy and a carbonate stain.

The core will remain at our Midland facility (thirty days free of charge) as we await further disposition instructions.

### UNSTEADY STATE-PDPK 300 PERMEAMETER

The PDPK-300 device uses unsteady-state pulse decay methodology to determine permeability. The PDPK (permeability) device is designed to provide a detailed assessment of changes in permeability over very small intervals. The PDPK measurements were made on the slabbed surface.

### STEADY STATE-MICROPERMEAMETER

The micropermeameter device uses steady state air cross flow methodology to determine an air permeability. A full diameter cylinder is face from existing core fragments. The sample is placed in a rubber sleeve under 400 psig confining pressure during testing. Upstream and downstream pressure are taken from mercury, water manometers or H-C gauge. Flow rates are measured using ceramic plates.

### CONVERSION PERMEABILITY TO HYDRAULIC CONDUCTIVITY - FULL DIAMETER SAMPLES AND PDPK PERMEABILITY

$$k = (V \cdot L) / (A \cdot T \cdot P)$$

k = Hydraulic conductivity, (m/sec)

V = Incremental produced volume, (m<sup>3</sup>)

L = Length, (m)

P = Differential pressure, (m of H<sub>2</sub>O)

A = Cross-sectional area, (m<sup>2</sup>)

T = Incremental time, (sec)

Volume, (V)

Ceramic plate orifice value @ 200mmH<sub>2</sub>O\*orifice water/200=cc/sec  
(cc/sec)/(1,000,000) = m/sec

Area, (A)

19.64 cm 2/100/100 = 0.001964 m<sup>2</sup>

Length, (L)

length in cm/100 = m

Differential Pressure, (P)

P<sub>1</sub> = -P<sub>a</sub> + sqrt of (2000\*0.01787\*760/760)/C value of 60 + 760/760

P<sub>1</sub> = 0.2632 atm

0.2632 atm \* 1033.26 = 271.95 cmH2O  
271.95 cm H2O/100 = 2.7195 mH2O

Time, (T)  
sec

Conversion (m/sec) to (ft/sec)

(m/sec)\*3.2808399 ft/m = ft/sec

Conversion (ft/sec) to (ft/day)

(ft/sec)\*86,400 sec/day = ft/day

**CONVERSION PERMEABILITY TO HYDRAULIC CONDUCTIVITY-FULL DIAMETER AND  
PDPK 300 PROBE TIP PERMEABILITY SAMPLES**

Hydraulic Conductivity = 0.1738 times millidarcies + zero

Regression analysis was performed on existing full diameter permeability and hydraulic conductivity data using a forced zero intercept.

## CORE LABORATORIES

Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
 Well : VARIOUS WELLS  
 Location :  
 Co., State :

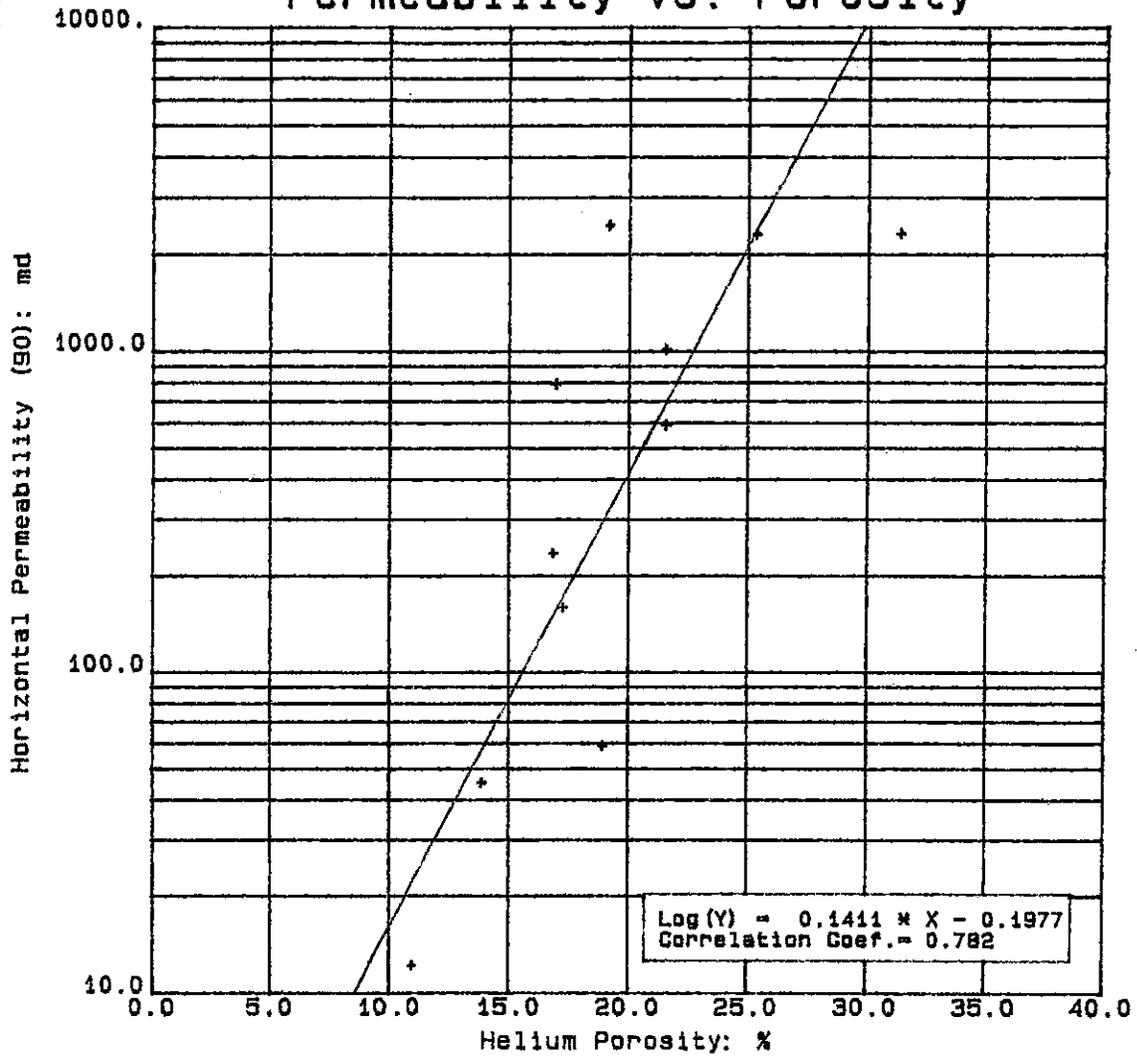
Field :  
 Formation :  
 Coring Fluid :  
 Elevation :

File No.: 57181-18054  
 Date : 8-28-00  
 API No. :  
 Analysts: SEBIAN

### CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY			POROSITY (HELIUM) %	GRAIN DENSITY gm/cc	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md	(VERTICAL) Kair md			
S 1	0 to 5				31.3	2.73	U1GW3 WELL/TBFA, Lim, foss, qtz snd, moldic
S 2	5 to 10	470.	236.	151.	16.8	2.68	U1GW3 WELL/Lim, foss, qtz snd, moldic
S 3	15 to 20	457.	59.2	35.2	18.9	2.68	U1GW3 WELL/Sd, tn, fgr, v/lmy, sl rootlet
S 4	10 to 15	2864.	2321.	2494.	25.3	2.69	E4GW3 WELL/Lim, foss, qtz snd, sl moldic
S 5	0 to 5	175.	160.	230.	17.2	2.69	E4GW4 WELL/Lim, foss, abund qtz snd, limonite
S 6	15 to 20	40.7	12.3	92.7	10.9	2.69	E4GW3 WELL/Lim, sl qtz snd, sl frac
S 7	0 to 5	1020.	1020.	43.1	21.5	2.70	F4GW3 WELL/Lim, foss, qtz snd, limonite, sl moldic
S 8	10 to 15	3305.	2475.	515.	19.1	2.69	F4GW3 WELL/Lim, foss, qtz snd, sl pp
S 9	20 to 25	3372.	2331.	731.	31.3	2.74	U3GW3 WELL/Lim, foss, sl qtz snd
S 10	10 to 15	233.	45.4	49.0	13.8	2.68	U3GW3 WELL/Lim, foss, sl qtz snd, sl rootlet
S 11	8 to 13	735.	594.	615.	21.5	2.72	M203 WELL/Lim, foss, sl rootlet
S 12	18 to 23	894.	797.	156.	16.9	2.70	M203 WELL/Lim, foss, sl qtz snd, sl moldic
S 13	18 to 23	1592.	1433.		22.9	2.70	M204 WELL/Lim, foss, sl qtz snd, sl yel stn, moldic

# Permeability vs. Porosity



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
VARIOUS WELLS**

- LEGEND -  
Not Specified

Core Laboratories

B-28-00

# CORE LABORATORIES

Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
 Well : VARIOUS WELLS

Field :  
 Formation :

File No.: 57181-18054  
 Date : 8-28-00

## TABLE I

### SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA	CHARACTERISTICS REMAINING AFTER CUTOFFS	
<b>ZONE:</b>	<b>ZONE:</b>	<b>PERMEABILITY:</b>
Identification ----- NOT SPECIFIED	Number of Samples ----- 12	Flow Capacity ----- 10051.7 md-ft
Top Depth ----- 1.0 ft	Thickness Represented - 12.0 ft	Arithmetic Average ---- 914. md
Bottom Depth ----- 13.0 ft		Geometric Average ----- 344. md
Number of Samples ----- 12	<b>POROSITY:</b>	Harmonic Average ----- 80.9 md
	Storage Capacity ----- 244.5 $\phi$ -ft	Minimum ----- 12.3 md
<b>DATA TYPE:</b>	Arithmetic Average ---- 20.4 %	Maximum ----- 2475. md
Porosity ----- (HELIUM)	Minimum ----- 10.9 %	Median ----- 594. md
Permeability ----- (90 DEG) Kair	Maximum ----- 31.3 %	Standard Dev. (Geom) -- $K \cdot 10^{\pm 0.782}$ md
	Median ----- 19.0 %	
<b>CUTOFFS:</b>	Standard Deviation ---- $\pm 6.3$ %	<b>HETEROGENEITY (Permeability):</b>
Porosity (Minimum) ----- 0.0 %		Dykstra-Parsons Var. -- 0.899
Porosity (Maximum) ----- 100.0 %	<b>GRAIN DENSITY:</b>	Lorenz Coefficient ---- 0.484
Permeability (Minimum) --- 0.0100 md	Arithmetic Average ---- 2.70 gm/cc	
Permeability (Maximum) --- 10000. md	Minimum ----- 2.68 gm/cc	<b>AVERAGE SATURATIONS (Pore Volume):</b>
Water Saturation (Maximum) 100.0 %	Maximum ----- 2.74 gm/cc	Oil ----- 0.0 %
Oil Saturation (Minimum) - 0.0 %	Median ----- 2.69 gm/cc	Water ----- 0.0 %
Grain Density (Minimum) -- 2.00 gm/cc	Standard Deviation ---- $\pm 0.02$ gm/cc	
Grain Density (Maximum) -- 3.00 gm/cc		
Lithology Excluded ----- NONE		

South Florida Water Management District  
 Various Wells  
 Hydraulic Conductivity

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Sample Number	Well Number	Depth Top feet	Depth Bottom feet	Hydraulic Conductivity (m/sec)	Hydraulic Conductivity (ft/day)	K(air) md	K(direction)	Description
S1	U1GW3	0.0	5.0	-999.000000	-999.000	-999.000	K(vertical)	Lim, foss, qtz snd, moldic
				-999.000000	-999.000	-999.000	K(horiz,max)	
				-999.000000	-999.000	-999.000	K(horiz,min)	
				0.000035	57.892	333.000	PDPK	
S2	U1GW3	5.0	10.0	0.000016	26.251	151	K(vertical)	Lim, foss, qtz snd, moldic
				0.000050	81.710	470	K(horiz,max)	
				0.000025	41.029	236	K(horiz,min)	
				0.000108	177.327	1020	PDPK	
				0.000001	1.704	10	PDPK	
				0.000001	0.887	5	PDPK	
S3	U1GW3	15.0	20.0	0.000004	6.120	35.200	K(vertical)	Sd, tn, fgr, v/lmy, sl rootlet
				0.000048	79.449	457.000	K(horiz,max)	
				0.000006	10.292	59.200	K(horiz,min)	
				0.001506	2468.670	14200.000	PDPK	
				0.000946	1550.742	8920.000	PDPK	
S4	E4GW3	10.0	15.0	0.000264	433.582	2494.000	K(vertical)	Lim, foss, qtz snd, sl moldic
				0.000304	497.906	2864.000	K(horiz,max)	
				0.000246	403.506	2321.000	K(horiz,min)	
				0.000043	70.757	407.000	PDPK	
				0.000124	203.405	1170.000	PDPK	
				0.000001	1.158	6.660	PDPK	
				0.000051	83.100	478.000	PDPK	
S5	E4GW4	0.0	5.0	0.000050	81.710	470.000	PDPK	Lim, foss, abund qtz snd, limonite
				0.000024	39.986	230.000	K(vertical)	
				0.000019	30.424	175.000	K(horiz,max)	
				0.000017	27.816	160.000	K(horiz,min)	
				0.000000	0.031	0.180	PDPK	
				0.000484	792.756	4560.000	PDPK	
				0.000010	17.107	98.400	PDPK	
0.000081	133.169	766.000	PDPK					

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Sample Number	Well Number	Depth Top feet	Depth Bottom feet	Hydraulic Conductivity (m/sec)	Hydraulic Conductivity (ft/day)	K(air) md	K(direction)	Description
S6	E4GW3	15.0	20.0	0.000007	11.596	66.700	PDPK	Lim, sl qtz snd, sl frac
				0.000010	16.116	92.700	K(vertical)	
				0.000004	7.076	40.700	K(horiz,max)	
				0.000001	2.138	12.300	K(horiz,min)	
				0.000001	2.156	12.400	PDPK	
				0.000041	67.280	387.000	PDPK	
				0.000000	0.118	0.679	PDPK	
				0.000000	0.003	0.018	PDPK	
				0.000006	9.284	53.400	PDPK	
				0.000000	0.323	1.860	PDPK	
				0.000006	10.031	57.700	PDPK	
				S7	F4GW3	0.0	5.0	
0.000108	177.327	1020.000	K(horiz,max)					
0.000108	177.327	1020.000	K(horiz,min)					
0.000000	0.002	0.009	PDPK					
0.000000	0.007	0.041	PDPK					
0.000829	1359.507	7820.000	PDPK					
0.000007	10.692	61.500	PDPK					
0.000001	1.236	7.110	PDPK					
S8	F4GW3	10.0	15.0	0.000055	89.533	515.000	K(vertical)	Lim, foss, qtz snd, sl pp
				0.000350	574.574	3305.000	K(horiz,max)	
				0.000262	430.279	2475.000	K(horiz,min)	
				0.000027	45.027	259.000	PDPK	
				0.001019	1670.699	9610.000	PDPK	
S9	U3GW3	20.0	25.0	0.000078	127.084	731.000	K(vertical)	Lim, foss, sl qtz snd
				0.000358	586.222	3372.000	K(horiz,max)	
				0.000247	405.244	2331.000	K(horiz,min)	
				0.000003	4.659	26.800	PDPK	
				0.000020	32.684	188.000	PDPK	
				0.000100	164.462	946.000	PDPK	

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Sample Number	Well Number	Depth Top feet	Depth Bottom feet	Hydraulic Conductivity (m/sec)	Hydraulic Conductivity (ft/day)	K(air) md	K(direction)	Description
S10	U3GW3	10.0	15.0	0.000005	8.519	49.000	K(vertical)	Lim, foss, sl qtz snd, sl rootlet
				0.000025	40.507	233.000	K(horiz,max)	
				0.000005	7.893	45.400	K(horiz,min)	
				0.000028	45.201	260.000	PDPK	
				0.000003	4.590	26.400	PDPK	
				0.000003	5.511	31.700	PDPK	
				0.000001	1.194	6.870	PDPK	
				0.000000	0.539	3.100	PDPK	
S11	M203	8.0	13.0	0.000065	106.918	615.000	K(vertical)	Lim, foss, sl rootlet
				0.000078	127.780	735.000	K(horiz,max)	
				0.000063	103.267	594.000	K(horiz,min)	
				0.000001	1.304	7.500	PDPK	
				0.000000	0.115	0.661	PDPK	
				0.000000	0.084	0.483	PDPK	
				0.000000	0.532	3.060	PDPK	
S12	M203	18.0	23.0	0.000017	27.121	156.000	K(vertical)	Lim, foss, sl qtz snd, sl moldic
				0.000095	155.422	894.000	K(horiz,max)	
				0.000085	138.558	797.000	K(horiz,min)	
				0.000000	0.189	1.090	PDPK	
				0.000000	0.013	0.074	PDPK	
				0.000000	0.523	3.010	PDPK	
				0.000000	0.107	0.615	PDPK	
				0.000027	44.679	257.000	PDPK	
S13	M204	18.0	23.0	-999.000000	-999.000	-999.000	K(vertical)	Lim, foss, sl qtz snd, sl yel stn, moldic
				0.000169	276.769	1592.000	K(horiz,max)	
				0.000152	249.127	1433.000	K(horiz,min)	
				0.000000	0.381	2.19	PDPK	
				0.000013	21.384	123	PDPK	

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**Sample Identification: S1**

S1, 0 ft to 5 ft., U1GW3

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
0	0	0	0	3.5	3.5
0.25	0	0	0	3.9	3.9
0.5	0	0	0	4	4
0.75	0	0	0	4.2	4.2
1	0	0	0	5	5

**Sample Identification: S2**

S2, 5 ft to 10 ft., U1GW3

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
5	0	0	0	2.4	2.4
5.13	0	0	0	2.9	2.9
5.25	0	0	0	2.8	2.8
5.38	0	0	0	3	3
5.5	0	0	0	3.3	3.3
5.63	0	0	0	3.6	3.6
5.75	0	0	0	3.2	3.2
5.88	0	0	0	3.1	3.1
6	0	0	0.43	3.3	3.3

**Sample Identification: S3**

S3, 15 ft to 20 ft., U1GW3

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
15	0	0	0.69	3.3	3.3
15.25	0	0	0.21	3.5	3.5
15.5	0	0	1.68	3.4	3.4
15.75	0	0	1.54	3.1	3.1
16	0.0001	0	1.31	2.7	2.7

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**Sample Identification: S4  
 S4, 10 ft to 15 ft., E4GW3**

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
10	0.0006	0	0.48	1.5	1.5
10.25	0.0008	0	0.52	1.6	1.6
10.5	0.0019	0	0	2.2	2.2
10.75	0.0004	0	0	2.6	2.6
11	0.003	0	0	3	3

**Sample Identification: S5  
 S5, 0 ft to 5 ft., E4GW4**

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
0	0	0	0	2	2
0.25	0	0.04	0	1.9	1.2
0.5	0.0013	0	0	2.1	2.1
0.75	0.0015	0	0	2.3	2.3
1	0.0024	0	0.14	2.7	2.7

**Sample Identification: S6  
 S6, 15 ft to 20 ft., E4GW3**

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
15	0	1.06	0	3.2	0
15.33	0	0.82	0	2.8	0
15.67	0	0	0	2.8	2.8
16	0.001	0	0	3.2	3.2

**Sample Identification: S7  
 S7, 0 ft to 5 ft., F4GW3**

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
0	0.0027	0	0	2.7	2.7
1	0	0	0	3.9	3.9

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**Sample Identification: S8**  
 S8, 10 ft to 15 ft., F4GW3

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
10	0.0008	0.45	0	2.2	0
10.25	0.002	0.07	0	2.2	0.8
10.5	0.0014	0	0	2.6	2.6
10.75	0.0008	0	0	2.3	2.3
11	0	0	0	2.7	2.7

**Sample Identification: S9**  
 S9, 20 ft to 25 ft., U3GW3

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
20	0.0014	0	0.26	1.8	1.8
20.25	0.0015	0	0.21	1.7	1.7
20.5	0.0012	0.02	0.26	1.7	1.5
20.75	0.0003	0.45	0.17	2	0
21	0	0.55	0.5	1.8	0

**Sample Identification: S10**  
 S10, 10 ft to 15 ft., U3GW3

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
10	0	0	0	3.1	3.1
10.25	0	0	0.26	2.9	2.9
10.5	0	0	1.22	2.9	2.9
10.75	0	0	1.45	2.9	2.9
11	0	0	1.35	2.7	2.7

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**Sample Identification: S11**  
 S11, 8 ft to 13 ft., M203

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
8	0	0	0.95	3.7	3.7
8.25	0	0	0	3.4	3.4
8.5	0	1.05	0	3.1	0
8.75	0	0.59	0.46	2.7	0
9	0	0.65	0.37	2.7	0

**Sample Identification: S12**  
 S12, 18 ft to 23 ft., M203

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
18	0	0.54	0.8	3.2	0
18.25	0	0.05	1.65	3.5	2.9
18.5	0	0	1.86	3.7	3.7
18.75	0	0	1.61	3.2	3.2
19	0	0.22	1.19	3	0.7

**Sample Identification: S13**  
 S13, 18 ft to 23 ft., M204

DEPTH (ft)	POTASSIUM (%/100)	URANIUM (ppm)	THORIUM (ppm)	TOTAL (API)	TOTAL URANIUM FREE (API)
18	0	0.58	0	1.7	0
18.25	0	0.5	0	1.8	0
18.5	0	0	0	2	2
18.75	0	0	0	2.2	2.2
19	0	0	0	2.5	2.5

LITHOLOGICAL ABBREVIATIONS

Anhy, anhy	Anhydrite (-ic)	Lim, lim	limestone
Ark, ark	arkos (-ic)	med gr	medium grain
bnd	band (-ed)	Mtrx	matrix
brec	breccia	NA	interval not analyzed
Calc, calc	calcite (-ic)	Nod, nod	nodules (-ar)
carb	carbonaceous	Ool, ool	oolite (-itic)
crs gr	course grained	Piso, piso	pisolite (-itic)
Chk, chky	chalk (-y)	pp	pin-point (porosity)
Cht, cht	chert (-y)	Pyr, pyr	pyrite (-itized, itic)
Cgl, cgl	conglomerate (-ic)	Sd, sdy	sand (-y)
crs xln	coarsely crystalline	Shr	solid hydrocarbon residue
dns	dense	sli/	slightly
Dol, dol	dolomite (-ic)	Sltstn, slty	siltstone, silty
Frac	randomly oriented fractures	styl	stylolite (-itic)
frac	slightly fractured	suc	sucrosic
f gr	fine grained	Su, su	sulphur, sulphurous
foss	fossil (-iferous)	TBFA	TOO BROKEN FOR ANALYSIS
f xln	finely crystalline	Trip, trip	tripolitic
Gil, gil	gilsonite	v/	very
Glauc, clauc	glauconite (-itic)	vert frac	perdominantly vertically fractured
Grt	granite	vug	vuggy
Gyp, gyp	gypsum (-iferous)	xbd	crossbedded
hor frac	perdominantly horizontally fractured	xln	medium crystalline
incl	inclusion (-ded)	xtl	crystal
intbd	interbedded		
lam	lamina (-tions,-ated)		

THE FIRST WORD IN THE DESCRIPTION COLUMN OF THE CORE ANALYSIS REPORT DESCRIBES THE ROCK TYPE. FOLLOWING ARE ROCK MODIFIERS IN DECREASING ABUNDANCE AND MISCELLANEOUS DESCRIPTIVE TERMS.

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