Geraghty & Miller, Inc.

APPENDIX A

GEOLOGIC LOGS FOR INJECTION WELLS 1 AND 2, AND MONITOR WELL

GEOLOGIC LOG OF WELL IW-1 HARRIS CORPORATION PALM BAY, FLORIDA

Sample Description	Depth Interval (feet)	Thickness (feet)
SAND and ORGANICS - Sand, 70%, clear, quartz, fine- to medium-grained, angular-to	(1000)	
sub-rounded; Organics, 30%, roots, soil, etc.	0 - 30	30
SAND and SHELL - Sand, 70%, clear, quartz, medium-grained, angular-to sub-rounded; Shell, 25%, white to medium light gray, small, small whole shells & shell fragments; Limestone, 5%, medium gray, fine- to medium-grained, micrite, well cemented.		
mediam-grained, mieriee, weir comented.	30-87	57
SANDSTONE and SHELL - Sandstone, 70%, light olive gray, quartz, fine- to medium-grained, sub-angular, poorly- to well cemented, calcareous cement; Shell, 30%, yellowish gray to very pale orange, fragments, angular; Phosphatic Sand, trace, black, rounded; Marl, trace, greenish gray.		
crace, greenish gray.	87-148	61
MARL and SAND - Marl, 70%, grayish, olive green, soft, wet; Sand, 30%, clear quartz, fine- to coarse-grained, sub-angular; Shell, trace, angular; Phosphatic Sand, trace, black, rounded.		
black, localocu.	148-178	30
SAND, CLAY and LIMESTONE - Sand, 50%, clear, quartz, fine- to medium-grained, sub-rounded to sub-angular grains; Clay, 30%, grayish olive green; Limestone, 10%, white to medium gray, coarse-grained, sparite, hard; Phosphatic Sand, 10%, black, very fine- to coarse-grained, rounded to sub-angular.	·	
coarse-grained, rounded to sub-angular.	178-260	82
SAND and MARL - Sand, 50%, clear to brown to black, quartz-dolosilt-phosphatic, fine- to medium-grained, angular to rounded; Marl, 50%, greenish gray, fine-grained, plastic, wet; Limestone, trace, white to medium gray, sparite; Shells, trace, fragmented.		
sparree, sherrs, trace, fragmented.	260-310	50

SAND and MARL - Sand, 70%, clear to brown to black, quartz-dolosilt-phosphatic, fine- to medium-grained, angular to sub-angular (quartz) - rounded to sub-rounded (dolosilt & phosphate); Marl, 30% greenish gray, plastic, wet; Limestone, trace, white to medium gray, micrite; Shells, trace, fragmented	310-320	10
SAND, MARL and LIMESTONE - Sand, 70%, clear to brown to black, quartz - dolosilt - phosphatic, fine- to medium-grained, sub-angular to rounded; Marl, 20%, greenish gray, wet, plastic; Limestone, 10%, yellowish gray, medium-grained.	320-327	7
LIMESTONE CLAY and SAND - Limestone, 50%, White to very light gray, fine- to medium-grained, hard; Clay, 25%, light olive gray, non-plastic; Sand, 25%, clear, brown, black, quartz, dolosilt, phosphatic, fine- to medium-grained, sub-angular to rounded.	327-337	. 10
LIMESTONE and SAND - Limestone, 85%, white to yellowish gray, fine- to medium-grained, hard; Sand, 10%, clear to black, quartz, phosphatic, fine- to medium-grained, sub-angular to rounded; Clay 5%, light olive gray, non-plastic.	337–370	33
LIMESTONE - Limestone, 100%, white to yellowish gray, fine- to medium-grained, sparite, hard; Sand, trace, clear to black, quartz and phosphate; Clay, trace, light olive gray.	770 441	
LIMESTONE and MARL - Limestone, 90%, white to yellowish gray, medium-grained, sparite, hard, vuggy, microcrystalline to granular, recrystallized in some places, fossiliferous; Marl, 10%, yellowish gray, fine-grained, wet.	370-441	71
graff fam. graff fam. graffing from	441-460	19

LIMESTONE, CLAY and SHELLS - Limestone, 50%, yellowish gray to olive gray, fine- to medium-grained, biosparite, hard, microcrystalline to granular, fossiliferous; Clay, 30%, olive gray, non-plastic, well cemented; Shell, 20%, very pale orange to pale yellowish orange to olive gray, whole shells and fragments, angular.	460-500	40
LIMESTONE, CLAYSTONE and SHELL - Limestone, 70%, very light yellowish gray, fine- to medium-grained, biomicrite, hard, microgranular, vuggy, fossils present; Claystone, 20%, medium gray, non-plastic, moderately well cemented; Shell, 10%, white to grayish black, shell fragments, angular to		
sub-rounded.	500-520	20
LIMESTONE - Limestone, 100%, medium gray to very light yellowish gray, fine-grained to medium-grained, biosparite, microgranular,		
vuggy, fossiliferous.	520-536	16
CLAY - Clay, 100%, very light gray, high plasticity, very sticky, calcareous.	536-537	1
LIMESTONE - Limestone, 100%, medium gray, fine- to medium-grained, hard, microgranular, vuggy, non-fossiliferous.	·	
	537-552	15
LIMESTONE, SHELL and CLAYSTONE - Limestone, 70%, pinkish gray to very light gray, fine-to medium-grained, biosparite, hard, microcrystalline, fossiliferous; Shell, 20%, white to dark gray, fragments; Claystone, 10%, medium gray, calcareous, well cemented, non-plastic, echinoids.		
Horr preserve, continuens.	552-572	20
DOLOMITE and LIMESTONE - Dolomite, 85%, light olive gray, finely crystalline, hard; Limestone, 15%, white to yellowish gray, fine- to medium-grained, sparite, hard,		·
microcrystalline; Shells, trace, bivalves.	572-583	. 11

LIMESTONE and DOLOMITE - Limestone, 70%, yellowish gray, fine- to medium-grained, biomicrite, hard, microcrystalline, vuggy; Dolomite, 30%, light olive gray, finely crystalline, hard, vuggy.		
oryotarrio, hard, vaggy.	583-591	8
LIMESTONE - Limestone, 100%, light gray to yellowish gray, fine-grained, micrite, hard, microcrystalline, vuggy.		
	591-600	9
DOLOMITE - Dolomite, 100%, light olive gray to moderate yellowish brown, finely crystalline hard, vuggy, drusy crystals present in vugs.		
processo an reger	600-608	8
LIMESTONE - Limestone, 95%, very pale orange to pale yellowish brown, fine- to medium-grained, biosparite, moderately hard, microgranular to granular, fossiliferous; Clay 5%, olive black, quartz and phosphatic, fine-grained, moderately well-cemented, non-plastic; Shells, trace, white to light		
brown angular, fragmented, bivalves, gastropods, etc.; Sand, trace, clear, quartz, sub-angular.		
	608-638	30
LIMESTONE - Limestone, 100%, very pale orange, fine- to medium-grained, biomicrite, soft, microgranular, fossils		
,,	638-644	6
DOLOMITE - Dolomite, 90%, grayish orange to brownish black, finely crystalline, hard, vuggy; Clay, 5%, medium gray, quartz & phosphatic, fine-grained, poorly-cemented; Limestone, 5%, very pale orange, fine-grained, sparite, moderately well cemented; Shells, trace, fragments.		
Comercou, Greats, Clade, Hagneries.	644-682	38
LIMESTONE - Limestone, 100%, yellowish gray, fine- to medium-grained, micrite, moderately hard to hard, microgranular to		
microcrystalline.	682-688	6

DOLOMITE - Dolomite, 100%, moderate yellowish brown, finely crystalline, hard, vuggy with		
crystals lining them.	688-699	11
CLAY, DOLOMITE and LIMESTONE - Clay, 60%, light gray to medium gray, calcareous, high plasticity; Dolomite, 30%, moderate yellowish brown, finely crystalline, hard, vuggy w/crystals; Limestone, 10%, pinkish gray, fineto medium-grained, biomicrite, moderately hard, microgranular, fossiliferous.		
, , ,	699-701	2
LIMESTONE - Limestone, 100%, pinkish gray, fine- to medium-grained, biomicrite, moderately hard, microgranular, fossiliferous.	·	
1000111101003	701-714	13
DOLOMITE - Dolomite, 100%, moderate yellowish brown, fine- to medium crystalline, hard, microcrystalline; Limestone, trace, very pale orange, fine- to medium-grained, sparite, hard, microcrystalline; Clay, trace, medium gray.		
9.07.	714-719	5
LIMESTONE and DOLOMITE - Limestone, 90%, very pale orange to medium gray, fine- to medium-grained, sparite, hard, microcrystalline to granular, fossiliferous; Dolomite, 10%, moderate yellowish brown, finely crystalline, moderately hard.	•	
Thory drystarring moderatery mares	719-720	1
DOLOMITE - Dolomite 100%, dark to moderate yellowish brown to yellowish gray, fine- to medium crystalline, hard, vuggy; Limestone, trace, very pale orange, fine-grained, biosparite, hard.		
biosparies, nara.	720-794	74
LIMESTONE and DOLOMITE - Limestone, 90%, very pale orange to medium gray, fine- to medium-grained, biomicrite, hard, microcrystalline to granular, fossiliferous; Dolomite, 10%, moderate yellowish brown to medium light gray, fine- to medium orwestalling hard	·	
crystalline, hard.	794-805	11

DOLOMITE, LIMESTONE and CLAYSTONE - Dolomite, 70%, white to olive black, microcrystalline to finely crystalline, vuggy, moderately hard; Limestone, 20%, bluish white to very pale orange, microcrystalline to fine-grained, micrite, vuggy, fossiliferous; Claystone, 10%, olive gray, non-plastic; Clay, trace, light bluish gray, moist, plastic.		
	805-831	26
DOLOMITE and LIMESTONE - Dolomite, 90%, moderate yellowish brown to grayish black, microcrystalline to finely crystalline, moderately hard, vuggy; Limestone, 10%, very pale orange to medium bluish gray, microcrystalline to fine-grained, biomicrite, moderately soft, fossiliferous.		
	831-838	7
SILTSTONE and DOLOMITE - Siltstone, 80%, Pale yellowish orange, moderately hard, calcareous cement, friable; Dolomite, 20%, moderate yellowish brown to medium gray, microcrystalline to finely crystalline, hard, vuggy; Limestone, trace, very pale orange, microcrystalline to fine-grained, moderately soft.		
	838-841	3
DOLOMITE and LIMESTONE - Dolomite, 90%, grayish orange to bluish gray, microcrystalline to finely crystalline, moderately hard, vuggy; Limestone, 10%, very pale orange to light bluish gray, microcrystalline to fine-grained, biosparite, hard, fossiliferous.		
naru, rossiirrerous.	841-846	5
DOLOMITE and LIMESTONE - Dolomite, 75%, moderate yellowish brown to olive black, microcrystalline to finely crystalline, moderately hard, vuggy; Limestone, 25%, very light gray to medium bluish gray, microcrystalline to fine-grained, sparite,		
hard, fossiliferous.	846-852	6

LIMESTONE - Limestone, 95%, very pale orange to light bluish gray, microcrystalline to fine-grained, biomicrite, hard, fossiliferous; Clay, trace, olive gray, non-plastic; Clay, trace, moderate yellowish brown.	,	
	852-890	38
DOLOMITE - Dolomite, 95%, grayish orange to light brown, finely crystalline, moderately hard, many solution cavities; Limestone, 5%, white to light gray, fine- to medium-grained, sparite, moderately hard, fossiliferous.		. *
	890-898	8
LIMESTONE - Limestone, 100%, very pale orange, microcrystalline to fine-grained, biomicrite, moderately hard; Dolomite, trace, light gray, microcrystalline to finely crystalline, moderately hard, vuggy.		*
	898-903	5
DOLOMITE - Dolomite, 90%, yellowish gray to grayish orange, microcrystalline to finely crystalline, moderately hard, vuggy; Limestone, 5%, very pale orange, microcrystalline to fine-grained, biomicrite, moderately hard, vuggy; Clay, 5%, olive gray, page plantics. Shallow traces applications		
non-plastic; Shells, trace, echinoids.	903-906	3
MARLY LIMESTONE - Limestone, 50%, very pale orange to olive gray, microcrystalline to fine-grained, biomicrite, moderately hard, vuggy, shelly, fossiliferous; Marl, 40%, very pale orange, soft, wet, plastic; Dolomite, trace, moderate yellowish brown, microcrystalline to finely crystalline, moderately hard, vuggy; Clay, trace, olive gray, non-plastic.		
gray, non-prastre.	906-908	2
DOLOMITE and LIMESTONE - Dolomite, 90%, very pale orange to medium light gray, microcrystalline to finely crystalline, sparite, moderately hard, vuggy, fossiliferous; Clay, trace, olive gray,		
non-plastic.	908-910	2

LIMESTONE - Limestone, 100%, very pale orange to light bluish gray, microcrystalline to fine-grained, biomicrite, moderately hard, vuggy, echinoids; Dolomite, trace, very pale orange to moderate yellowish brown, microcrystalline to finely crystalline, moderately hard, vuggy.	010.046	
DOLOMITE - Dolomite, 90%, yellowish gray to medium light gray, microcrystalline to finely crystalline, hard, vuggy; Limestone, 10%, very pale orange to yellowish gray, sparite,	910-946	36
moderately hard, shelly, fossiliferous, bivalves; Clay, trace, olive gray, non-plastic.		
	946-953	7
LIMESTONE - Limestone, 100%, very pale orange to yellowish gray, biomicrite, moderately hard, shelly, echinoids; Marl, trace, olive gray, very fine-grained, non-plastic.		
	953-965	12
DOLOMITE - Dolomite, 100%, grayish orange to dark gray, microcrystalline to finely crystalline, moderately hard, solution cavities; Limestone, trace, white to very light gray, fine- to medium-grained, sparite, moderately hard, fossiliferous.		
	965–995	30
DOLOMITE and LIMESTONE - Dolomite, 80%, moderate yellowish brown, microcrystalline to finely crystalline, moderately hard, vuggy; Limestone, 20%, very pale orange to yellowish gray, microcrystalline to fine-grained, biosparite, moderately hard, fossiliferous; Clay, trace, olive gray, non-plastic.		
oray, drass, orres gray, non prastre	995-1000	5
LIMESTONE - Limestone, 100%, very pale orange to moderate bluish gray, microcrystalline to fine-grained, biomicrite to sparite, hard, fossiliferous, recrystallized; Clay, trace, olive gray, non-plastic; Dolomite, trace, moderate yellowish brown, microcrystalline to finely expectalline rederately bard, wasse,		
finely crystalline, moderately hard, vuggy.	1000_1046	/16

DOLOMITE - Dolomite, 100%, light brown to moderate brown to grayish brown, microcrystalline, hard, vuggy, pinholes; Limestone, trace, light greenish gray to light bluish gray, fine-grained, sparite, hard, fossiliferous.		
·	1046-1059	13
LIMESTONE - Limestone, 100%, very pale orange to light bluish gray, microcrystalline, biomicrite, hard, fossiliferous, echinoids, recrystallization.		
	1059-1069	10
LIMESTONE and DOLOMITE - Limestone, 80%, yellowish gray to light greenish gray, microcrystalline, biomicrite, hard, echinoids; Dolomite, 20%, dark yellowish brown to grayish black, microcrystalline, moderately hard.		
modoratory mara-	1069-1109	40
LIMESTONE - Limestone, 100%, very pale orange, microcrystalline to fine-grained, sparite, hard, vuggy, pinholes, fossiliferous; Dolomite, trace, black to moderate yellowish brown, microcrystalline to finely crystalline, yuggy		
finely crystalline, vuggy.	1109-1119	10
LIMESTONE and DOLOMITE - Limestone, 80%, very pale orange to light bluish gray, microcrystalline to fine-grained, biosparite, very hard, pinholes, fossiliferous; Dolomite, 20%, moderate yellowish brown to grayish black, microcrystalline to finely crystalline, hard, vuggy with void spaces, limestone filled.		
TIMESCONE TITEG.	1119-1124	5
LIMESTONE - Limestone, 100%, very pale orange to dark yellowish brown, microcrystalline to fine-grained, sparite, very hard, vuggy, re-crystallized, fossiliferous; Dolomite, trace, moderate yellowish brown microcrystalline to finely crystalline, hard, vuggy with void spaces filled with limestone; Marl, trace, very pale orange, soft, wet.		
	1124-1140	16

DOLOMITE and LIMESTONE - Dolomite, 90%, moderate brown to dusky brown, light gray, microcrystalline to finely crystalline, hard, vuggy with limestone-filled void spaces; Limestone, 10%, bluish white, microcrystalline to fine-grained, biosparite, very hard, Clay, trace, olive black, non-plastic.		
	1140-1184	44
DOLOMITE and LIMESTONE - Dolomite, 60%, moderate yellowish brown to black, microcrystalline to finely crystalline, moderately hard to hard, vuggy; Limestone, 40%, bluish white to light bluish gray, microcrystalline to fine-grained, sparite, hard, vuggy; Clay, trace, olive black, non-plastic.		
inon-plastic.	1184-1189	5
DOLOMITE - Dolomite, 90%, brownish black to light olive gray, microcrystalline to finely crystalline, moderately hard to hard, vuggy; Limestone, 10%, yellowish gray to light bluish gray, microcrystalline to fine-grained, biosparite, moderately hard, we gray pipholes: Clay trace plike black		
<pre>vuggy, pinholes; Clay, trace, olive black, very fine-grained, non-plastic.</pre>		
	1189–1272	83
DOLOMITE and LIMESTONE - Dolomite, 80%, moderate yellowish brown to grayish black, finely crystalline, very hard; Limestone, 20%, yellowish gray to greenish gray, microcrystalline, micrite, hard, vuggy, fossiliferous; Shells, fragments.		
,,,,,	1272-1275	3
LIMESTONE - Limestone, 100%, light bluish gray to medium gray, microcrystalline to fine-grained, biosparite, hard, fossiliferous; Dolomite, trace, light brown to grayish black, microcrystalline to finely crystalline, very hard, vuggy; Clay, trace, light olive gray.		
TIGHT OITAC ATON	1275-1295	20

LIMESTONE and CLAY - Limestone, 80%, very pale orange to yellowish gray, fine- to medium-grained, biomicrite, hard, microgranular, fossiliferous; Clay, 20%, greenish gray, plastic, wet; Dolomite, trace, moderate yellowish brown, vuggy.

LIMESTONE - 100%, very pale orange to yellowish gray, fine- to medium-grained, biomicrite, hard, microgranular, pisolitic, fossiliferous; Dolomite, trace, moderate yellowish brown, microcrystalline to finely crystalline, hard; Marl, trace, white soft, plastic.		
F	1300-1324	24
DOLOMITE - Dolomite, 100%, moderate yellowish brown to brownish black, microcrystalline, hard, vuggy; Limestone, trace, white, fine-grained, moderately soft.		
	1324-1327	3
LIMESTONE - Limestone, 100%, yellowish gray to light bluish gray, fine- to medium-grained, sparite, soft, granular; Sand, trace, colorless, quartz, fine-grained,		
sub-angular, sucrosic.	1327-1350	23
LIMESTONE - Limestone, 100%, very pale orange, fine- to medium-grained, sparite, soft to moderately hard, granular, vuggy, fossiliferous.		·
TUSSITITETUUS.	1350-1420	70
LIMESTONE - Limestone, 100%, very pale orange to very light gray, fine- to medium-grained, biomicrite, soft to moderately hard, granular, fossiliferous; Dolomite, trace, grayish orange; Chert, trace.		
	1420-1450	30
DOLOMITE and LIMESTONE - Dolomite, 90%, moderate yellowish brown, fine- to medium crystalline, hard, vuggy; Limestone, 10%, very pale orange to light gray, fine- to medium-grained, soft to moderately hard, granular, fossiliferous.	,	
	1450-1458	8
LIMESTONE and DOLOMITE - Limestone, 50%, very pale orange, fine- to medium-grained, biosparite, soft to moderately hard, granular, fossiliferous; Dolomite, 40%, moderate yellowish brown, fine to medium crystalline, hard, vuggy; Clay, 10%, light		
gray, plastic, wet.	1458-1460	2

DOLOMITE - Dolomite, 95%, moderate yellowish brown, fine- to medium crystalline, hard, vuggy; Limestone, 5%, very pale orange, fine-grained, sparite, hard; Shell, trace, fragments.	1460-1480	20
LIMESTONE, DOLOMITE and CLAYSTONE - Limestone, 70%, very light gray, fine- to medium-grained, sparite, soft, fossiliferous; Dolomite, 20%, moderate yellowish brown, finely crystalline, hard, vuggy; Claystone, 10%, medium dark gray, very fine-grained, hard, non-plastic.		
	1480-1483	3
DOLOMITE - Dolomite, 95%, moderate yellowish brown to dusky yellowish brown, finely to medium crystalline, hard, vuggy, microcrystalline; Limestone, 5%, very light gray, fine- to medium-grained, micrite, soft to mederately band		
to moderately hard.	1483-1503	20
LIMESTONE and DOLOMITE - Limestone, 90%, very light gray to very pale orange, fine- to medium-grained sparite, soft to hard, fossiliferous; Dolomite, 10%, moderate		
yellowish brown, finely to medium		
crystalline, hard, vuggy.	1503-1533	3 0
MARL and CLAYSTONE - Marl, 90%, pale yellowish brown, fine-grained, soft, plastic, moist; Claystone, 10%, medium dark gray, hard, non-plastic.		
That's the production	1533-1536	3
DOLOMITE & MARL - Dolomite, 70% pale yellowish brown, very fine to finely crystalline, very hard, vuggy, limestone filling vugs; Marl, 20% pale yellowish brown, soft; Limestone, 5%, very pale orange, very fine grained, biomicrite, soft to moderately hard.		
liatu.	1536-1542	. 6
MARL and CHALKY LIMESTONE - Marl, 60%, yellowish gray to olive gray, very fine- to fine-grained; Limestone, biomicrite, hard, microcrystalline, vuggy, fossiliferous; Marl, trace, yellowish gray, very fine-grained,		
soft, plastic, moist.	1542-1544	2

LIMESTONE - Limestone, 100%, very fine- to fine-grained, biomicrite, hard, microcrystalline, vuggy, fossiliferous; Marl, trace, yellowish gray, very fine-grained, soft, plastic, moist.	1:
MARLY LIMESTONE - Limestone, 60%, very pale orange, fine- to very fine-grained, biomicrite, moderately soft, microcrystalline, fossil fragments; Marl, 40%, yellowish gray, cryptocrystalline, soft, plastic, moist.	

DOLOMITE and LIMESTONE - Dolomite, 90%, yellowish gray to dusky yellow brown, finely to medium crystalline, hard, drusy crystalline in void spaces, limestone filling in some void spaces; Limestone, 10%, white to grayish yellow, very fine-grained, micrite, moderately hard, slightly fossiliferous; Claystone, trace, medium dark gray.

LIMESTONE and DOLOMITE - Limestone, 90%, white to grayish yellow, very fine-grained, micrite, moderately hard, slightly fossiliferous; Dolomite, 10%, moderate yellowish brown, finely to medium crystalline, hard sucrosic, drusy crystallization in void spaces.

MARLY LIMESTONE - Limestone, 70%, very pale orange, fine- to very fine-grained, micrite, moderately soft, microcrystalline, some fossil fragments; Marl, 30%, yellowish gray, cryptocrystalline, soft, plastic, moist.

LIMESTONE and DOLOMITE - Limestone, 80%, white to grayish yellow, very fine-grained, moderately hard, micrite; Dolomite, 20%, moderate yellowish brown, finely to medium crystalline, hard, sucrosic, drusy crystalline in void spaces.

1544-1545.5 1.5

1545.5-1554 8.5

1554-1564 10

1564-1566 2

1566-1571 5

1571-1589 18

DOLOMITE and LIMESTONE - Dolomite 90%, yellowish gray to light bluish gray, very fine to finely crystalline, very hard, sucrosic; Limestone, 10%, bluish white, very fine- to fine-grained, micrite, moderately hard, microcrystalline; Claystone, trace, medium dark gray, well cemented, non-plastic.	1589-1596	. 7
DOLOMITE and LIMESTONE - Dolomite, 60%, yellowish gray to pale yellowish brown, very fine to finely crystalline, very hard, vuggy, limestone filling in vugs; Limestone, 40%, white to very light gray, fine-grained, micrite, moderately hard.		
	1596-1599	3
DOLOMITE and LIMESTONE - Dolomite, 60%, moderate yellowish brown, finely crystalline, hard, vuggy, vugs limestone filled; Limestone, 40%, very pale orange, fine to medium grained, biomicrite, moderately hard.		
	1599-1604.1	5.1
DOLOMITE and LIMESTONE - Dolomite, 90%, very pale orange to grayish orange to greenish black, very finely crystalline, hard, vugs filled with limestone; Limestone, 10%, very pale orange, fine- to medium-grained, sparite, soft to moderately hard; Clay, trace, white, plastic.		
crace, mirec, practice	1604.1-1630	25.9
LIMESTONE and CLAYSTONE - Limestone, 95%, very pale orange, fine-grained, biosparite, hard, microcrystalline; Claystone, 5%, dark gray, very well cemented microcrystalline; Clay, trace, white, plastic.		
omaj, orace, mines, praester	1630-1634	4
LIMESTONE - Limestone, 100%, very pale orange, fine-grained, biosparite, hard, microcrystalline; Claystone, trace, greenish black, very well cemented, microcrystalline; Clay, trace, white, plastic.		
orally oracol mirror practice	1634-1644	ın

GEOLOGIC LOG	- 15 -	HARRIS CORP.
LIMESTONE and DOLOMITE - Limestone, or pale orange, fine-grained, moderately hard, slightly fossion Dolomite, 40%, greenish black, very talline, very hard, microcrystalline, white to green gray.	sparite, liferous; ry finely	.6 2
: IMESTONE Limestone 100% w		6 Z
LIMESTONE - Limestone, 100%, voorange, fine-grained, sparite, mohard, non-fossiliferous; Dolomite dark gray, very finely crystalline, he	oderately , trace, ard.	
	1646–165	2 6
LIMESTONE and CLAYSTONE - Limeston very pale orange, fine-grained, moderately hard, microcrystalline; C. 20%, dark gray, well microcrystalline.	micrite, laystone,	
microcrystalline.	1652-165	2
LIMESTONE - Limestone, 100%, verorange, fine grained, moderately hard slightly fossiliferous, micrite; Ctrace, medium blush gray, moderate cemented.	d, vuggy, laystone,	
Cemericeu.	1654-166	10
LIMESTONE and CLAYSTONE - Limeston very pale orange, fine-grained, hard, fossiliferous; Claystone, 5 gray, well cemented.	sparite,	
gray, well comenteed.	1664-167	70 6
LIMESTONE - Limestone, 95%, very parto pinkish gray, fine- to medium-sparite, hard, fossiliferous; Clays dark gray, well cemented; Clay, translute gray, plastic.	-grained, tone, 5%,	
olive gray, placelet	1670-168	30 10
DOLOMITE and CLAYSTONE - Dolomi moderate yellowish brown, finely cryvery hard, microcrystalline, slight Claystone, 10%, dark gray, well Limestone, 5%, very pale orange,	stalline, ly vuggy; cemented; fine- to	
medium-grained, sparite, moderatel fossiliferous, vuggy.	y, nard, 1680-169	97 17
·	1000-103	'/ 1 /

DOLOMITE - Dolomite, 100%, moderate yellowish brown to dark yellowish brown, finely crystalline, hard, slightly vuggy; Limestone, trace, very pale orange, very fine-grained, sparite, moderately hard, fossiliferous; Claystone, trace, dark gray, very well cemented, microcrystalline.

1697-1699 2

DOLOMITE and LIMESTONE - Dolomite, 85%, moderate yellowish brown to dark yellowish brown, finely crystalline, hard, microcrystalline, slightly vuggy; Limestone, 10%, very pale orange, very fine-grained, biosparite, moderately hard, fossiliferous; Claystone, 5%, dark gray, very well cemented, microcrystalline.

1699-1705 6

DOLOMITE - Dolomite, 100%, moderate yellowish brown to dark yellowish brown, finely crystalline, hard, slightly vuggy.

1705-1725 20

DOLOMITE and CHERT - Dolomite, 85%, moderate yellowish brown to dark yellowish brown, finely crystalline, hard, microcrystalline, slightly vuggy; Chert, 10%, olive gray to light olive gray, cryptocrystalline, very hard; Claystone, 5%, yellowish gray to dark gray, poorly to moderately well cemented, microcrystalline.

1725-1729

CLAYSTONE, CLAY and DOLOMITE - Claystone, 60%, dark gray to yellowish gray, moderately well cemented, microcrystalline; Clay, 20%, very pale orange to yellowish gray, plastic, moist; Dolomite, 20%, yellowish brown, soft to moderately hard, microcrystalline, vuggy.

1729-1735 6

DOLOMITE, CLAYSTONE and LIMESTONE - Dolomite, 75%, moderate yellowish brown, finely crystalline, hard, microcrystalline, slightly vuggy; Claystone, 15%, yellowish gray to dark gray, poorly to moderately well cemented, microcrystalline; Limestone, 10%, very pale orange, very fine-grained, sparite, moderately hard; Chert, trace, olive gray to light olive gray, cryptocrystalline, very hard.

1735–1752 17

DOLOMITE, CHERT and CLAYSTONE - Dolomite, 70%, moderate yellowish brown, finely crystalline, hard, microcrystalline; Chert, 20%, light gray to light olive gray, cryptocrystalline, hard; Claystone, 10%, dark gray, moderately well cemented, microcrystalline; Limestone, trace, very pale orange, very fine-grained, micrite, moderately hard, non-fossiliferous.

1752-1762 10

DOLOMITE - Dolomite, 90%, moderate to dusky yellowish brown, very fine to finely crystalline, soft to moderately hard, microcrystalline, pinholes; Chert, 5%, very light gray to olive gray, cryptocrystalline, hard; Limestone, 5%, very pale orange, fine-grained, micrite, moderately hard, microcrystalline.

1762-1764 2

CHERT and DOLOMITE - Chert, 60%, very light gray to olive gray, cryptocrystalline, hard; Dolomite, 35%, dark yellowish brown to grayish brown, very finely crystalline, hard, microcrystalline, slightly vuggy; Claystone, 5%, medium dark gray, moderately well cemented; Limestone, trace, very pale orange, fine-grained, sparite, moderately hard, slightly fossiliferous.

1764-1770 6

LIMESTONE. DOLOMITE and CLAYSTONE Limestone, 60%, very pale orange to yellowish gray, fine- to medium-grained, biosparite, hard, moderately slightly fossiliferous with small quantity of small shells; Dolomite, 25%, moderate brown, finely crystalline, hard, microcrystalline, slightly vuggy; Claystone, 10%, dark gray, moderately well cemented; Limestone, 5%, very pale orange to pale yellowish brown, fine-grained, biosparite. moderately hard, fossiliferous.

CHERT and DOLOMITE - Chert, 70%, yellowish gray to olive gray, cryptocrystalline, hard; Dolomite, 30%, moderate yellowish brown, finely crystalline, very hard, crystalline; Claystone, trace, dark gray, well cemented; Limestone, trace, very pale orange, fine-grained, sparite, moderately hard, microcrystalline.

1771-1781 10

DOLOMITE, CHERT and CLAYSTONE - Dolomite, 70%, dark yellowish brown to grayish brown, finely crystalline, hard, slightly vuggy; Chert, 20%, yellowish gray to olive gray, cryptocrystalline, very hard; Claystone, 10%, dark gray, moderately well cemented; Limestone, trace, very pale orange, fine-grained, biosparite, moderately hard, slightly fossiliferous.

1781-1794 13

DOLOMITE - Dolomite, 95%, moderate yellowish brown to yellowish gray, finely crystalline, hard, microcrystalline, slightly vuggy; Limestone, 5%, very pale orange, very fine-grained, biosparite, soft to moderately hard, microcrystalline; Claystone, trace, dark gray, moderately well cemented, microcrystalline.

1794-1802 8

DOLOMITE and CHERT - Dolomite, 80%, moderately yellowish brown to yellowish gray, finely crystalline, hard, slightly vuggy; Chert, 20%, light gray to light olive gray, cryptocrystalline, very hard, Limestone, trace, very pale orange, very fine-grained, biomicrite, moderately soft to moderately hard; Claystone, trace, light gray to yellowish gray, moderately hard, microcrystalline.

1802-1836 34

LIMESTONE and CHERT - Limestone, 75%, yellowish gray, fine-grained, poorly to moderately hard, sparite; Chert, 20%, light olive gray, cryptocrystalline, very well cemented; Dolomite, 5%, dark yellowish brown, finely crystalline, moderately hard.

1836-1841 5

CHERT and DOLOMITE - Chert, 60%, yellowish gray to dark yellowish brown, cryptocrystalline; Dolomite, 30%, moderate yellowish brown, finely crystalline, hard, microcrystalline; Claystone, 5%, dark gray, moderately hard, microcrystalline; Limestone, 5%, very pale orange fine-grained, biosparite, hard.

1841-1850 9

DOLOMITE and CHERT - Dolomite, 70%, dark yellowish brown, microcrystalline to finely crystalline, hard; Chert, 30%, yellowish gray to olive gray, cryptocrystalline; Claystone, trace, medium dark gray, moderately well cemented; Limestone, trace, very pale orange, fine-grained, micrite, moderately hard.

1850-1857 7

DOLOMITE and CHERT - Dolomite, 80%, dark yellowish brown, finely crystalline, hard; Chert, 20%, yellowish gray to olive gray, cryptocrystalline, very well cemented; Claystone, trace, medium dark gray, moderately well cemented. microcrystalline; Limestone, trace, very pale orange, fine-grained, biosparite, moderately hard, microcrystalline.

1857-1883 26

LIMESTONE and DOLOMITE - Limestone, 70%, very pale orange to moderate yellowish brown, fine-grained micrite, moderately hard, microcrystalline; Dolomite, 25%, moderate yellowish brown to dark yellowish brown, finely crystalline, hard, microcrystalline; Chert, 5%, light olive gray to brownish black, cryptocrystalline, very well cemented; Claystone, trace, dark gray, moderately well cemented, microcrystalline.

1883-1904 21

DOLOMITE and CHERT - Dolomite, 50%, dark yellowish brown, finely crystalline, hard; Chert, 45%, light olive gray to dark yellowish brown, cryptocrystalline, very well cemented; Limestone, 5%, very pale orange, fine-grained, micrite, moderately soft to moderately hard.

LIMESTONE - Limestone, 60%, yellowish gray, fine-grained, micrite, moderately soft, to moderately hard, microcrystalline, pinholes; Dolomite, 20%, dark yellowish brown, finely crystalline, very hard, microcrystalline; Chert, 20%, light olive gray to dark yellowish brown, cryptocrystalline, very well cemented.

1912-1932 20

DOLOMITE - Dolomite, 90%, olive gray to dark yellowish brown, finely crystalline, hard, microcrystalline; Chert, 5%, light olive gray to dark yellowish brown, cryptocrystalline, very well cemented; Limestone, 5%, very pale orange to yellowish gray, fine-grained, micrite, moderately soft to moderately hard, microcrystalline.

1932-1936 4

LIMESTONE - Limestone, 90%, very pale orange to yellowish gray, fine-grained, biosparite, moderately soft to moderately hard, microcrystalline; Dolomite, 5%, dark yellowish brown, hard, microcrystalline; Chert, 5%, light olive gray to dark yellowish brown, cryptocrystalline, very well cemented.

1936-2040 104

DOLOMITE - Dolomite, 100%, dark yellowish brown, finely crystalline, moderately hard, vuggy; Limestone, trace, white to light gray, fine-grained, micrite, moderately soft to moderately hard.

2040-2046 6

DOLOMITE and LIMESTONE - Dolomite, 60%, moderate brown to dark yellowish brown, finely crystalline, hard, vugs filled with limestone; Limestone, 40%, yellowish gray, fine-grained, biomicrite, moderately hard.

2046-2049 3

DOLOMITE - Dolomite, 100%, moderate brown, finely crystalline, hard, limestone-filled vugs; Limestone, trace, very pale orange, fine-grained, biosparite, hard, non-fossiliferous.

2049-2053 4

DOLOMITE - Dolomite, 100%, medium light gray to grayish brown, very hard, microcrystalline, drusy crystals in vugs; Limestone, trace, very pale orange, fine-grained, biomicrite, hard.	2053–2064	11
DOLOMITE AND LIMESTONE - Dolomite, 50%, dark yellowish brown to grayish brown, finely crystalline, hard, drusy crystallization in vugs; Limestone, 50%, very pale orange, fine-grained, biomicrite, moderately hard, microcrystalline.		
	2064-2069	5
DOLOMITE - Dolomite, 95%, moderately to dark yellowish brown, very fine- to finely crystalline, very hard, drusy crystallization in vugs; Limestone, 5%, very pale orange, fine-grained, sparite, moderately hard, microcrystalline.		
MICIOSI Y STATELLING.	2069-2091	22
DOLOMITIC LIMESTONE - Limestone, 60%, very pale orange, very fine-grained, micrite, moderately hard, some recrystallization, interclasts, dolomite filling in solution cavities; Dolomite, 40%, dark yellowish brown, very finely crystalline, moderately hard, vuggy, limestone filling in solution cavities.		
	2091–2107	16
DOLOMITE - Dolomite, 100%, moderate to dark yellowish brown, microcrystalline, to finely crystalline, hard, vugs, solution cavities; Limestone, trace, very pale orange, very fine-grained, micrite, moderately hard.	·	
, gouines,,,,	2107-2109	2
DOLOMITE and LIMESTONE - Dolomite, 80%, moderately yellowish brown, medium crystalline, hard, vuggy to cavernous; Limestone, 20%, very pale orange, very fine-grained, hard.		
- · · · · · · · · · · · · · · · · · · ·	2109-2115	6
LIMESTONE and DOLOMITE - Limestone, 90%, grayish orange to pale yellowish orange, very fine-grained, micrite, hard, vuggy; Dolomite, 10%, grayish brown to dusky brown, finely crystalline, very hard.		

DOLOMITE and LIMESTONE - Dolomite, 95%, light brown to grayish brown to dusky brown, microcrystalline to very finely crystalline, moderately hard, vuggy; Limestone, 5%, very pale orange, cryptocrystalline to very fine-grained, micrite, hard, dolomite filling in solution cavities.	2126-2139	13
LIMESTONE and DOLOMITE - Limestone, 60%, yellowish gray, very fine-grained, moderately soft; Dolomite, 40%, pale yellowish brown to dusky brown, cryptocrystalline to microcrystalline, hard, vuggy, solution cavities with drusy crystalline and limestone filling.		
	2139-2143	4
DOLOMITE - Dolomite, 100%, moderate brown to dark yellowish brown, microcrystalline to finely crystalline, hard, vuggy, drusy crystallization in cavities, sucrosic; Limestone, trace, yellowish gray, very fine-grained, micrite, moderately hard.	0147 0107	
	2143-2193	50
DOLOMITE - Dolomite, 95%, dark gray to brownish black, cryptocrystalline, to very finely crystalline, hard, limestone filling in vugs; Dolomite, 5%, moderate yellowish brown, cryptocrystalline, hard; Limestone, trace, very pale orange, microcrystalline, moderately soft.		
moderatery sort.	2193-2200	7
LIMESTONE AND DOLOMITE (INTERBEDDED) - Limestone, 60%, very pale orange to medium dark gray, finely crystalline, micrite, moderately soft, friable; Dolomite, 40%, moderate brown to dusky yellowish brown, cryptocrystalline to very finely crystalline,		
hard, vuggy; Marl, trace, bluish white, soft,		
wet, plastic.	2200-2231	31
DOLOMITE - Dolomite, 100%, moderate brown to dark yellowish brown to pale yellowish brown, cryptocrystalline to very finely crystalline,		
very hard.	2231-2247	16

DOLOMITE - Dolomite, 85%, brownish black, cryptocrystalline, very hard; Dolomite, 15%, dark yellowish brown, microcrystalline to finely crystalline, hard, vuggy; Limestone, trace, very pale orange, microcrystalline, biomicrite, moderately soft.		
	2247-2307	60
DOLOMITE - Dolomite, 90%, light gray, cryptocrystalline to very finely crystalline, very hard; Dolomite, 10%, dark yellowish brown, microcrystalline to finely crystalline, hard, vuggy.		
, , , , , , , , , , , , , , , , , , , ,	2307–2309	2
DOLOMITE - Dolomite, 50%, olive black to olive gray, cryptocrystalline, very finely crystalline, very hard, vuggy; Dolomite 50%, dark yellowish brown, microcrystalline to finely crystalline, hard, slightly vuggy; Limestone, trace, grayish orange to very pale orange, fine-grained, biosparite, soft,		
fossiliferous.	2309-2319	10
DOLOMITE - Dolomite, 95%, pale yellowish brown, cryptocrystalline, very hard; Dolomite, 5%, dark yellowish brown, microcrystalline, hard, slightly vuggy.		
inactory court in the state of	2319-2325	6
DOLOMITE Dolomite, 50%, moderate brown, microcrystalline, hard, vuggy, solution cavities with drusy crystallization; Dolomite, 50%, pale yellowish brown, cryptocrystalline, very hard.		
orypholipholariancy vory narus	2325-2329	4
DOLOMITE - Dolomite, 100%, dark yellowish brown, cryptocrystalline to finely crystalline, very hard.		
organia, rory made	2329-2330	1

TOTAL DEPTH: 2330

GEOLOGIC LOG OF WELL IW-2 HARRIS CORPORATION PALM BAY, FLORIDA

Sample Description	Depth Interval (feet)	Thickness (feet)
No Sample Taken	0-32	32
SAND and ORGANICS - Sand, 70%, clear, quartz, fine to medium-grained, sub-angular to sub-rounded; Organics, 30%, roots, soil, etc.	32-35	3
SHELLY SAND and LIMESTONE - Sand, 75%, clear, quartz, medium to coarse-grained, angular to sub-rounded; Shell, 20%, white to very pale orange to medium light gray, small whole shells and broken fragments; Limestone, 5%, dark gray, fine to medium-grained, micrite,		
hard.	35-55	20
SHELLY SAND and CLAY - Sand, 50%, clear quartz, fine to medium-grained, sub-rounded to rounded; Shell, 40%, white to pale yellow orange to light gray, broken fragments; Clay,		
10%, dusky yellow green, plastic, sandy.	55-75	20
SHELL and SAND - Shell, 60%, white to pale yellow orange to light gray, broken fragments; Sand, 40%, clear quartz, fine to coarse-grained, sub-rounded to rounded.		
	75–102	27
SHELLY SANDSTONE - Sandstone, 75%, light olive gray, quartz, fine to medium-grained, sub-rounded, moderately well cemented, calcareous cement; Shell, 25%, very pale orange, angular fragments; Phosphatic sand, trace, black, fine-grained, rounded.		
crace, brack, Trie-grantied, rounded.	102-127	25
SANDY MARL - Marl, 80%, medium light gray, soft, wet, plastic; Sand, 20%, colorless, quartz, fine to coarse-grained, sub-rounded; Shells, trace, pale yellow orange, angular fragments; Phosphatic sand, trace, black, rounded.		
TOULIGEO.	127-137	10

SANDY MARL - Marl, 90%, grayish olive green, soft, wet, plastic; Sand, 10%, colorless, quartz, fine- to medium-grained, sub-rounded; Shell, trace, angular fragments.		
	137-152	15
MARLY SAND - Sand, 70%, clear quartz, fine to medium-grained, sub-angular to sub-rounded; Marl, 30%, grayish olive green, soft, wet, plastic; Phosphatic sand, trace, black, fine-to medium-grained, sub-rounded; Shells, trace, fragments.		
Clace, Tagments.	152-241	89
No Sample Available	241-251	10
SANDY CLAY - Clay, 50%, grayish olive green, highly plastic; Sand, 40%, colorless, quartz, fine-grained, sub-angular; Phosphatic sand, 10%, black, fine-grained, sub-rounded to rounded.		
	251-271	20
SANDY CLAY - Clay, 60%, grayish olive green, highly plastic; Sand, 20%, colorless, quartz, fine- to fine-grained, sub-angular; Claystone, 10%, greenish black, moderately well cemented; Sand, 10%, black, phosphatic, fine-grained, sub-rounded to rounded.		
Time-grained, Sub-rounded to rounded:	271-281	10
CLAY - Clay, 75%, greenish olive gray, plastic; Sand, 20%, colorless, quartz, very fine- to fine-grained sub-angular; Sand, 10%, black, phosphatic, finegrained, sub-rounded to rounded.		
	281-291	10
CLAY - Clay, 85%, greenish olive gray, highly plastic; Sand, 10%, colorless, quartz, fine-grained, sub-angular; Sand, 5%, black, phosphatic, fine-grained, rounded.	·	
	291-330	39
LIMESTONE and CLAY - Limestone, 70%, yellowish gray, fine-grained, micrite, moderately hard, sand in matrix; Clay, 20%, light olive gray, low plasticity; Shell, trace, white angular fragments; Sand, trace, colorless to black, quartz, phosphatic, very fine- to fine-grained.		
. In the granted.	330-340	10

LIMESTONE and SAND - Limestone, 85%, yellowish gray, fine- to very fine-grained, sparite, moderately hard; Clay, 5%, light olive gray, low plasticity; Sand, 5%, black, phosphatic, fine-grained, rounded to well-rounded; Sand, 5%, colorless, quartz, fine-grained, sub-angular to sub-rounded; Shell, trace, white to yellowish gray, angular fragments, some recrystallization.

340-429 89

LIMESTONE - Limestone, 95%, white to yellowish gray, fine-grained, micrite, hard, foraminifera and echinoid fossils; Sand, 5%, colorless, quartz, very fine-grained, sub-angular; Sand, trace, black, phosphatic, fine-grained, sub-rounded; Clay, trace, light olive gray.

429-454 \ 25

MARLY LIMESTONE - Limestone, 75%, very pale orange, fine-grained, micrite, very hard, some vugs filled with sparry calcite; Marl, 25%, very pale orange, very fine to cryptocrystalline, plastic, soft.

454-464 10

LIMESTONE AND CLAY (INTERBEDDED) - Limestone, 70%, white to yellowish gray, fine- to medium-grained, hard, vuggy; Clay, 25%, olive gray, sandy (very fine-grained); Shell, 5%, yellowish gray to pale orange, medium- to coarse-sized fragments; Sand, trace, black, phosphatic, fine-grained.

464-535 71

LIMESTONE, CLAY and DOLOMITE (INTERBEDDED) - Limestone, 65%, white to yellowish gray, cryptocrystalline to fine-grained, micrite, hard, vuggy; Clay, 25%, olive gray; Dolomite, 10%, very pale grayish orange, cryptocrystalline, very hard, vuggy; Sand, trace, black, phosphatic, fine-grained.

535-663 128

DOLOMITE and LIMESTONE - Dolomite, 80%, grayish orange to light gray, very fine to finely crystalline, very hard, sucrosic, vuggy; Limestone, 20%, very light gray to very pale orange, fine-grained, biomicrite, bard

DOLOMITE - Dolomite, 100%, grayish orange, very fine to finely crystalline, microsparite, very hard, sucrosic, vuggy; Limestone, trace, very light gray, fine-grained, biomicrite, hard, fossiliferous; Claystone, trace, medium light gray.		
	678-682	4
DOLOMITE and LIMESTONE - Dolomite, 70%, grayish orange to light gray, very fine to finely crystalline, very hard, sucrosic, vuggy; Limestone, 25%, white to very pale orange, cryptocrystalline to very fine-grained, hard; Siltstone, trace, olive gray, moderately well cemented; Shell, trace,		
tan, fragments and whole shells present.	682-710	28
LIMESTONE - Limestone, 90%, very pale orange, fine-grained, hard, vuggy; Dolomite, 5%, pale yellowish brown, finely crystalline, very hard, sucrosic; Shell, 5%, very pale orange, whole echinoid spines and shell fragments.		
	710-724	14
DOLOMITE and LIMESTONE - Dolomite, 90%, light brown to dark yellowish brown to medium gray, cryptocrystalline to finely crystalline, vuggy, moderately hard; Limestone, 10%, bluish white to very pale orange, microcrystalline to fine-grained, vuggy, pinholes, fossiliferous; Clay, trace, olive gray, well cemented, non-plastic.		
	724–747	23
DOLOMITE - Dolomite, 100%, white to olive black, microcrystalline, vuggy, solution cavities, moderately hard; Limestone, trace, yellowish gray, microcrystalline to fine-grained, biomicrite, vuggy, echinoid fossils; Clay, trace, dark gray, well		
cemented, non-plastic.	747 965	110

LIMESTONE and DOLOMITE - Limestone, 80%, very light gray to yellowish gray microcrystalline to fine-grained, pinhole cavities, moderately soft; Dolomite, 15%, moderate yellowish brown to medium gray, microcrystalline to finely crystalline, vuggy, moderately hard; Clay, 5%, light gray, plastic.		
	865-869	4
LIMESTONE and DOLOMITE - Limestone, 90%, very pale orange to light gray, biomicrite, moderately soft; Dolomite, 10%, moderate yellowish brown to light gray, microcrystalline, solution cavities.		
	869-880	11
LIMESTONE - Limestone, 100%, light gray, micrite, vuggy, moderately soft; Dolomite, trace, moderate yellowish brown to medium dark gray, microcrystalline, moderately hard.	·	
dark gray, microcrystalline, moderatery hard.	880-883	. 3
LIMESTONE and DOLOMITE - Limestone, 60%, very pale orange to dark yellowish brown, microcrystalline to fine-grained, biomicrite, moderately soft; Dolomite, 40%, moderate yellowish brown, microcrystalline to finely crystalline, vuggy; Clay, trace, moderate brown, plastic.		
blown, plastic.	883-919	36
DOLOMITE and LIMESTONE - Dolomite, 90%, very pale orange to medium gray, microcrystalline to finely crystalline, vuggy, moderately hard; Limestone, 10%, very pale orange, microcrystalline to finely crystalline, calcareous matrix, moderately soft, fossiliferous.		
, cooling to the cool	919-921	2
LIMESTONE and DOLOMITE - Limestone, 60%, pinkish gray to medium bluish gray, biomicrite, microcrystalline to fine-grained, very hard, recrystallized, fossiliferous; Dolomite, 40%, yellowish gray to moderate yellowish brown, microcrystalline to finely crystalline, vuggy, moderately hard, solution cavities.		

LIMESTONE and DOLOMITE - Limestone, 80%, white to pinkish gray, microcrystalline to fine-grained, biosparite, very hard, echinoids; Dolomite, 20%, yellowish gray to moderate yellowish brown, microcrystalline to		
finely crystalline, vuggy, moderately hard.	936-950	14
DOLOMITE and LIMESTONE - Dolomite, 70%, very pale orange to olive gray, microcrystalline to finely crystalline, vuggy, moderately hard; Limestone, 20%, very pale orange to medium bluish gray, fine-grained, biosparite, vuggy, fossiliferous; Clay, 10%,		
dark bluish gray, well cemented, non-plastic.	950-956	6
DOLOMITIC LIMESTONE - Limestone, 70%, white to medium bluish gray, fine-grained to microcrystalline, vuggy, hard; Dolomite, 30%, very pale orange to moderate yellowish brown, microcrystalline to finely crystalline, vuggy, moderately hard.		
vaggy, moderately hard.	956-964	8
DOLOMITE and LIMESTONE - Dolomite, 90%, very pale orange to medium light gray, microcrystalline to finely crystalline, vuggy, moderately hard; Limestone, 10%, white to very pale orange, microcrystalline to fine-grained, calcareous matrix, moderately		
hard.	964-999	35
DOLOMITE - Dolomite, 100%, very pale orange to moderate yellowish brown, microcrystalline to finely crystalline, very vuggy, drusy crystallization in vugs, moderately hard; Limestone, trace, very pale orange, fine-grained, vuggy, moderately soft.		
Tine-grained, vaggy, moderatery sort.	999-1022	23
DOLOMITE and LIMESTONE - Dolomite, 60%, very pale orange, microcrystalline to finely crystalline, vuggy, moderately hard; Limestone, 40%, very pale orange to medium gray, microcrystalline to fine-grained, biosparite, moderately soft, fossiliferous.		
brooperroo, moderatery boilty tobarritorous.	1022 1059	36

	LIMESTONE and DOLOMITE - Limestone, 60%, very pale orange to medium gray, microcrystalline to fine-grained, micrite, moderately soft, fossiliferous; Dolomite, 40%, very pale orange, microcrystalline to finely crystalline, vuggy, moderately hard.	1058-1063	5
	DOLOMITE and LIMESTONE - Dolomite, 60%, very pale orange, microcrystalline to finely crystalline, vuggy, moderately hard. Limestone, 40%, very pale orange, microcrystalline to fine-grained, biomicrite, moderately soft, fossiliferous.		
		1063-1068	5
	DOLOMITE and LIMESTONE - Dolomite, 90%, moderate yellowish brown, finely crystalline, moderately hard, microcrystalline, vuggy; Limestone, 10%, pinkish gray, fine-grained, biosparite, moderately hard, microcrystalline, fossiliferous, some vugs filled with (possible) anhydrite.		
		1068-1077	9
	LIMESTONE and DOLOMITE - Limestone, 90%, very pale orange, fine-grained, biomicrite, moderately soft to moderately hard, microcrystalline, fossiliferous; Dolomite, 10%, moderate yellowish brown, finely crystalline, hard, microcrystalline.		
		1077-1129	52
	LIMESTONE and CLAYSTONE - Limestone, 70%, very pale orange, fine-grained, sparite, hard, microcrystalline, shells; Claystone, 30%, medium, dark gray, non-plastic, poorly cemented, calcareous cement.		
٠		1129-1137	8
	CLAYSTONE - Claystone, 100%, medium dark gray, non-plastic, poorly-cemented, calcareous cement; Shells, trace.	11== 1:=0	
		1137-1139	2
	DOLOMITE and CLAYSTONE - Dolomite, 40%, moderate brown, finely crystalline, hard, microcrystalline, vuggy; Claystone, 40%, medium dark gray, non-plastic, poorly-cemented, calcareous cement limestone, 20%, very pale orange to light gray, fine-grained, sparite, moderately hard		
	microcrystalline.	1170 11/7	^
		1139_11/17	Я

LIMESTONE - Limestone, 90%, grayish orange, fine-to-medium grained, moderately soft; Claystone, 10%, medium dark gray, non-plastic, poorly cemented.		
Herr placede, pecally comerced	1147-1160	13
DOLOMITE - Dolomite, 95%, moderate yellowish brown-to-drusy yellowish brown, finely crystalline, hard, vuggy, microcrystalline; Limestone, 5%, very pale orange, fine-grained, micrite, moderately soft, microgranular.	,	
	1160-1191	31
DOLOMITE and LIMESTONE - Dolomite, 90%, dark yellowish brown to drusy brown, fine-to medium-crystalline, very hard, crystals of dolomite along fractures and in vugs; Limestone, 10%, pinkish gray, very fine grained, hard.		
	1191–1218	27
CLAYSTONE & LIMESTONE - Claystone, 60%, medium grey, fine grained, well cemented, microcrystalline; Shells, 20%, white to brownish grey, angular fragments and some complete shells. Limestone, 20%, yellowish grey, medium grained, sparite, moderately hard, microcrystalline.		
Hard, microcrystalline.	1218-1220	2
DOLOMITE - Dolomite, 100%, yellowish brown, finely crystalline, moderately hard to hard, drusy crystallization along fractures and in vugs; limestone, trace yellowish gray micrite hard.		
	1220-1228	8
DOLOMITE & LIMESTONE - Dolomite, 60%, pale yellowish brown to moderate brown, finely crystalline, hard, vuggy, sucrosic; LImestone, 40%, pinkish grey to yellowish grey, fine-to medium-grained, sparite, moderately hard, (foraminifera fossils).		
	1228-1236	8
DOLOMITE & LIMESTONE - Dolomite, 90%, dusky yellowish brown to moderate yellowish brown, fine-to medium-crystalline, very hard, vuggy & sucrosic; limestone, 10%, very pale orange, fine-to medium grained, hard granular		
texture.	1236-1248	12

DOLOMITE and LIMESTONE - Dolomite, 50%, moderate yellowish brown to dusky brown, fine-to medium-crystalline, hard vuggy; Limestone, 50%, yellowish grey, finely crystalline, hard, fossils.		
	1248-1250	2
DOLOMITE and LIMESTONE - Dolomite, 90%, dark yellowish brown, finely crystalline, hard, vuggy, sucrosic, drusy crystals of dolomite in vugs and fractures; Limestone, 10%, yellowish grey, fine-grained, biomicrite, hard, foraminifera.		·
Tale, Tolanzi Tolanzi	1250-1266	16
DOLOMITE - Dolomite, 95%, dark yellowish brown to light olive gray, finely crystalline, hard, microcrystalline, vuggy, sucrosic; Limestone, 5%, pinkish gray, fine-to medium grained, hard, fossiliferous;		
Peat, trace, brownish black, small chunks.	1266-1296	30
LIMESTONE - Limestone, 100%, pinkish gray, fine to medium-grained, biomicrite, moderately hard to hard, very fossiliferous, Dolomite trace, moderate brown, finely	•	•
crystalline, hard, drusy crystallization, sucrosic, vuggy.		
	1296-1388	92
DOLOMITE and LIMESTONE - Dolomite, 70%, moderate yellowish brown, medium-crystalline, hard, limestone in filling in pores; Limestone, 30%, pinkish grey, fine-to medium-grained, moderately hard, granular texture.		
	1388-1390	2
LIMESTONE and DOLOMITE - Limestone, 90%, pinkish grey to very pale orange, fine-to medium, grained, biomicrite, hard to very hard. Microgranular to microcrystalline fragments of fossils. Dolomite, 10%, moderate yellowish brown, medium-crystalline, moderately hard, limestone filling in voids; Shells, fragments and whole pieces, foraminifera.		
	1390-1412	22

LIMESTONE and DOLOMITE - Limestone, 80%, pinkish grey to very pale orange, fine to medium grained, hard to very hard, microgranular to micro-crystalline texture; Dolomite, 20%, moderate yellowish brown, medium-crystalline, moderately hard, limestone filling in cavities; Shells, fragments.		
	1412-1460	48
DOLOMITE - Dolomite, 100%, moderate yellowish brown, fine to medium crystalline, hard, vuggy; Had a lot of trouble with huge chucks of dolomite getting caught in bit and pipe.	•	
or determined georging dadgite in the piper	1460-1485	25
DOLOMITE - Dolomite, 100%, brownish black, fine-to medium-crystalline, hard, drusy crystallization in pores.		
crystallization in poles.	1485-1488	3
DOLOMITE - Dolomite, 100%, moderate yellowish brown, fine-to medium-crystalline, hard, drusy crystals.		
diday diyatais.	1488-1507	19
LIMESTONE and DOLOMITE - Limestone, 80%, pinkish grey, medium-to coarse-grained, biomicrite, moderately soft; Dolomite, 20%, medium yellowish brown to blackish brown, medium-crystalline, moderately hard, drusy crystals along fractures.		
orystats arong tractares.	1507-1516	9
LIMESTONE and DOLOMITE - Limestone, 50%, pinkish grey medium-to coarse-grained,		
biomicrite, moderately soft; Dolomite, 50%, medium yellowish brown to blackish brown, medium-crystalline; hard, drusy crystals in		ese
voids.	1516-1527	11
DOLOMITE and LIMESTONE - Dolomite, 80%, medium yellowish brown to blackish brown, medium-crystalline, moderately hard, drusy crystallization along fractures & voids; Limestone, 20%, pinkish grey, medium to coarse-grained, sparite moderately soft to		
moderately hard.	1527_1537	10

DOLOMITE - Dolomite, 100%, moderate yellowish to dusky yellow brown. medium-crystalline, hard. drusv crystallization in cavities. limestone filling in cavities. 1537-1551 14 LIMESTONE and DOLOMITE - Limestone, 70%, yellowish gray, fine to medium grained, sparite, very hard, slightly fossiliferous; Dolomite, 30%, moderate yellowish brown, fine-to medium-crystalline, hard, sucrosic, drusy crystallization in cavities. 1551-1561 10 DOLOMITE - Dolomite, 100%, yellowish gray, crystalline, very finely microcrystalline, sucrosic, drusy crystallization; Limestone trace, yellowish gray, fine-grained, sparite, hard. 1561-1580 .19 -DOLOMITE and LIMESTONE - Limestone, 50%, to medium grained. pinkish gray. fine sparite, moderately hard; Dolomite, 50%, moderate yellowish brown to yellowish gray, finely crystalline, drusy crystallization. 1580-1582 2 LIMESTONE - Dolomite, 90%, DOLOMITE and yellowish gray to moderate yellowish brown, finely crystalline, very hard, sucrosic; LImestone, 10%, yellowish gray, sparite, fine-to medium-grained, moderately hard. 1582-1602 20 LIMESTONE - Dolomite, 60%, DOLOMITE and yellowish gray to moderate yellowish brown, finely crystalline, very hard, Limestone, 40%, white to very light gray, fine to medium grained, sparite, hard. 1602-1612 าก DOLOMITE - Dolomite, 95%, moderate yellowish yellowish to gray, fine-to medium-crystalline, hard. drusv crystallization in pores; Limestone, 5%, yellowish gray, fine-to medium-grained. biomicrite, hard, slightly fossiliferous.

1612-1622

10

DOLOMITE and LIMESTONE - Dolomite, 85%, yellowish gray to moderate yellowish brown, fine-to medium-crystalline, hard; Limestone, 15%, yellowish gray fine-to medium-grained, biomicrite, hard, microcrystalline, slightly fossiliferous echinoids.

1622–1694 72

DOLOMITE - Dolomite, 95%, moderate yellowish yellowish gray, fine to brown to medium-crystalline, hard, drusy crystallization in pores; Limestone, 50%, gray, fine-to medium-grained, yellowish biomicrite, hard, slightly fossiliferous; trace, light gray, sandy, plastic; Clay. trace of white to light gray, Chert cryptocrystalline; Claystone, trace, very orange, poorly to moderately well-cemented, fossiliferous.

1694-1745 51

DOLOMITE & LIMESTONE & CLAYSTONE - Dolomite, 80%, moderate yellowish brown to yellowish gray, fine-to medium-crystalline, hard, drusy crystallization; Limestone, 10%, yellowish gray, fine-to medium-grained, biomicrite, hard, fossiliferous; Claystone, 10%, very pale orange, poorly to moderately well cemented, fossiliferous; Chert, trace, white to light gray, cryptocrystalline.

1745-1750 5

DOLOMITE - Dolomite, 95%, moderate yellowish brown to yellowish gray, fine to medium-crystalline, hard, drusy crystallization in pores; Limestone, 5%, yellowish gray, fine-to medium-grained, sparite, hard, fossiliferous; Chert trace white to light gray, cryptocrystalline; Claystone, trace, very pale orange, poorly-to moderately well-cemented, fossiliferous.

1750-1777 27

DOLOMITE AND CHERT - Dolomite, 60%, moderate yellowish brown to yellowish gray, microcrystalline to medium crystalline, drusy crystallization in cavities; Chert, 35%, white to light gray, cryptocrystalline; Limestone, trace, yellowish gray, fine-to medium-grained, biomicrite, hard fossiliferous; Clay, trace, light to medium gray, sandy, plastic.

1777-1787 10

DOLOMITE and CHERT Dolomite, moderately yellowish brown to yellowish gray, microcrystalline to medium-grained, hard, crystallization in cavities; Chert, drusy gray, light cryptocrystalline: Limestone, trace, yellowish gray, fine to medium-grained, sparite, moderately soft, claystone, trace, light to medium gray, fine-grained. poorly-to moderately well-cemented.

1787-1884 97

DOLOMITE - Dolomite, 95%, moderate yellowish brown to yellowish gray, microcrystalline to medium-grained, hard, chert, trace, light gray, cryptocrystalline; Limestone, trace, yellowish gray, fine-to medium-grained, micrite, hard.

1884-1898 14

LIMESTONE and DOLOMITE - Limestone, 98%, very pale orange, very fine to fine grained; Dolomite, 2%, moderate yellowish brown, micro-to finely crystalline, hard, drusy crystallization in pores.

1898-1912 14

MARL, LIMESTONE AND DOLOMITE - Limestone, 60%, pale yellowish brown to very pale orange, fine-grained, biomicrite, moderately hard; Marl, 30%, yellowish gray, sandy, soft; Dolomite, 70%, light brown to light gray, microcrystalline to finely crystalline, hard.

1912-1919 7

DOLOMITE AND CHERT - Chert, 50%, dusky brown to medium dark gray, cryptocrystalline, conchoidal fracture; Dolomite, 50%, light brown to moderate brown, microcrystalline to finely crystalline, hard drusy crystallization in cavities.

1919-1930 11

DOLOMITE AND LIMESTONE - Dolomite, 70%, pale yellowish brown to medium dark gray, cryptocrystalline to finely crystalline, hard, glauconitic; Limestone, 30%, white, fine grained, moderately hard, glauconite; Chert, trace, light gray, cryptocrystalline.

1930-1938

8

DOLOMITE - Dolodark yellow medium-crystalling Chert, 10%, cryptocrystalling Limestone, tendium-grained, medium-grained, medium	rish b	rown,	fine-to
	ne, sucros	ic, glad	uconitic;
	dusky ye	ellowish	brown,
	e, conche	oidal	fracture;
	race,	white,	fine-to
LIMESTONE, 85%,			

LIMESTONE, 85%, very pale orange to very light grey, fine-to medium grained, biomicrite, hard, very few fossils, some calcite crystallization in pores; Dolomite, 15% moderate yellowish brown to yellowish grey, fine-to medium crystalline, hard microcrystalline, sucrose texture. Core 1969 to 1977.

LIMESTONE - Limestone, 95%, very pale orange to very light gray, fine-to medium grained, biomicrite; hard, microcrystalline, few fossils; Dolomite, 5%, moderate yellowish brown to dusky yellowish brown, fine-to medium-crystalline, hard, sucrosic.

DOLOMITE - Dolomite, 90%, dark yellowish brown to moderate brown, fine-to medium-crystalline, very hard, microcrystalline, sucrosic; Limestone, 10%, very pale orange, fine-to medium-grained, sparite, hard, fossiliferous.

DOLOMITE - Dolomite, 100%, moderate yellowish brown to black, fine-to medium-crystalline, hard, to sucrosic, very vuggy, all vugs lined with drusy dolomite crystallization.

DOLOMITE - Dolomite 100%, light to olive gray-moderate yellowish brown - black, finely crystalline, very hard, some color differences showing recrystallization present; Limestone, trace, white to light gray, fine-grained, microsparite, moderately hard.

1938-1965 27

1965-1969 4

1969-2060 91

2060-2098 38

2098-2138 40

2138-2258 120

GEOLOGIC LOG

- 15 -

HARRIS CORP.

2258 2274	16
2230-2214	10
2074 2470	166
2274-24 <i>3</i> 0	156
2430-2431	1
2130 2132	-
2431_2500	69
2471-2700	07
	.*
2500-2530	30
2530-2720	190-
	-
	2274-2430 2430-2431 2431-2500 2500-2530

TOTAL DEPTH: 2800

2720-2800

MONITOR WELL

GEOLOGIC LOG OF MONITOR WELL HARRIS CORPORATION PALM BAY, FLORIDA

Sample Description	Depth Interval (feet)	Thickness (feet)
SAND AND ORGANICS - Sand, 70%, Colorless quartz, fine-to medium-grained, sub-angular to sub-rounded; Organics, 30%, roots, soil, etc.		
	0-33	33
SAND AND SHELLS - Sand, 70%, colorless, quartz, medium-to coarse-grained, angular to sub-rounded; Shells, 30%, white to medium light gray, small whole shells and shell fragments.		
	33-91	58
LIMESTONE, SAND, AND SHELLS - Limestone, 60%, very light gray to medium light gray, very fine grained, hard; Sand, 35%, colorless, quartz, medium-to coarse-grained, sub-angular to sub-rounded; Shell, 5%, white to medium dark gray to very pale orange, fragments.		
	91–145	54
SANDY CLAY AND SHELL - Clay, 80%, grayish olive green, soft, plastic; Sand, 10%, colorless, quartz, fine-grained, sub-angular to sub-rounded; Shell, 10%, white to very pale orange to medium dark gray, angular, fragments; Sand, trace, black, phosphatic, fine-grained, rounded.		
The grantest in the second sec	145-173	28
CLAYEY SAND AND LIMESTONE - Sand, 50% colorless, quartz, fine-to coarse-grained, sub-angular to sub-rounded; Clay, 40%, grayish olive green, soft; Limestone, 10%, very pale orange to medium dark gray, micrite, shell fragments; Sand, trace, black phosphatic, fine - to coarse-grained, rounded.		
200,1000	173-242	69

SANDY CLAY, SHELLS, AND LIMESTONE - Clay, 50%, grayish olive green, soft, plastic; Shell, 20%, white to very pale orange to medium dark gray; Limestone, 20%, greenish gray to very pale orange, very fine-grained, hard; Sand, 10%, colorless, quartz, phosphatic (black).

LIMESTONE CLAY AND SHELL - Limestone, 50%, white to very pale orange, very fine-grained, hard; Clay, 30%, grayish olive green, soft, plastic; Shell, 15%, white to very pale orange to medium dark gray, angular, fragments; Sand, 5%, colorless, quartz, fine-to medium-grained, sub-angular, phosphatic (black).

SANDY LIMESTONE - Limestone, 85%, white to yellowish gray, hard; Fine-to coarse-grained, biosparite, sand, 10%, colorless, quartz phosphatic (black); Clay, 5%, light olive gray, soft, plastic.

LIMESTONE - Limestone, 95%, white to light brown, biosparite, moderately hard to hard; Shells, 5% white to very pale orange to medium dark gray, angular, fragments; Sand, trace, colorless, quartz, phosphatic (black) fine-to medium grained, sub-angular to rounded.

LIMESTONE AND SHELL - Limestone, 90%, white to yellowish gray, fine-to coarse-grained, biosparite moderately hard to hard, fossils (foraminifera); Shells, 10%, white to yellowish gray, angular, fragments.

242-302 60

302-332 30

332-348 16

348-366 18

366-371 5

371-420 49

LIMESTONE - Limestone, 100%, yellowish gray, biomicrite hard shell, trace, yellowish gray to moderate dark gray, angular, fragmented; Sand, trace, colorless, quartz, phosphatic (black); foraminifera fossils.	·	
(02000), (0200000000000000000000000000000000000	420-430	10
LIMESTONE – Limestone, 100%, white to yellowish gray, bio-intramicrite moderately hard granular.	4 7 0 500	70
	430–500	7 0
-NO RECOVERY - Lost Circulation	500-557	57
LIMESTONE AND CLAY (Interbedded); Limestone, 75%, white to light bluish gray to grayish orange, fine-to coarse-grained, biomicrite, hard, vuggy, granular to microcrystalline, foraminifera present; Clay, 25%, olive gray, well, cemented, non-plastic; Dolomite, trace, very pale grayish orange, very finely crystalline, hard; Fossils - foraminifera	557-612	55
DOLOMITE AND CLAYSTONE - Dolomite, 85%, moderate yellowish brown to light brown, microcrystalline to finely crystalline, hard, vuggy; Claystone, 10%, olive gray, well cemented; Limestone, 5%, very pale orange to bluish white, fine-to medium-grained, biomicrite, hard.		
Didition to the second	612-615	3
LIMESTONE AND CLAYSTONE - Limestone, 80%, grayish orange to bluish white, fine-to coarse-grained, biomicrite, hard; Claystone, 20%, olive gray, well-cemented, non-plastic; Dolomite, trace, moderate yellowish brown to light brown, fine-to medium-crystalline, hard.		
	615-655	40
DOLOMITE, LIMESTONE, AND CLAYSTONE - Dolomite, 80%, grayish orange to brownish black, finely crystalline, moderately hard to hard, vuggy; Limestone, 10%, white to very pale orange, fine-to medium grained, biosparite, moderately hard, vuggy;		
Claystone, 10%, olive gray, well-cemented.	655-694	39

LIMESTONE, DOLOMITE, AND CLAYSTONE - Limestone, 50%, bluish white to yellowish gray, fine-to medium-grained, biosparite, moderately hard, vuggy; Dolomite, 40%, grayish orange to brownish black, finely crystalline, moderately hard to hard, vuggy; Claystone, 10%, olive gray, well-cemented, non-plastic.

694–699 5

DOLOMITE, CLAYSTONE, AND LIMESTONE - Dolomite, 80%, grayish orange to brownish black, finely crystalline, hard, vuggy; Claystone, 10%, olive gray well-cemented, non-plastic; Limestone, 10%, bluish white to very pale orange, fine-to medium-grained, biosparite, moderately hard, recrystallized.

699-711 12

LIMESTONE - Limestone, 95% very pale orange to light gray, fine-to medium-grained, biomicrite, moderately hard to hard; Dolomite, 5%, light brown and light gray to dusky brown, very finely crystalline, hard; Clay stone, 5%, olive gray, well-cemented, non-plastic; Shells, trace, bivalves, echinoids.

711-727 16

DOLOMITE - Dolomite, 100%, light brown to moderate orange pink, finely to medium, crystalline, hard, pinholes, vuggy; Claystone, trace, olive gray, well-cemented, non-plastic; Limestone, trace very pale orange, fine-to medium-grained, biomicrite, moderately hard.

727-774 47

DOLOMITE & LIMESTONE - Dolomite, 80%, moderate yellowish brown to dusky brown, finely crystalline, hard vuggy; Limestone, 20%, pinkish-gray to pale yellowish-brown, finely crystalline, sparite, moderately hard.

774-780 6

DOLOMITE - Dolomite, 100%, pale yellowish-brown to grayish orange to dusky yellowish-brown, finely to medium crystalline, hard, vuggy; Limestone, trace white.

780-864 84

LIMESTONE - Limestone, 95%, very pale orange to light bluish gray, fine-to medium-grained, biosparite, moderately hard, pinholes; Dolomite, 5%, moderate yellowish brown, finely crystalline, hard, vuggy; Siltstone, trace, medium dark gray, fine-grained, well cemented.

LIMESTONE & DOLOMITE - Limestone, 80%, very

LIMESTONE & DOLOMITE - Limestone, 80%, very pale orange to very light gray, fine grained, biosparite, moderately soft; Some degree of recrystallization; Dolomite, 20%, moderate yellowish brown, fine-to-medium-crystalline, granular vuggy.

DOLOMITE - Dolomite, 100%, moderate yellowish brown to light olive, finely-crystalline, hard, sucrosic; Limestone, trace, very light gray to white finely crystalline, sparite, well-cemented.

DOLOMITE & LIMESTONE - Dolomite, 80%, very pale orange to olive black, finely-crystaline hard; Limestone, 20%, pinkish gray to light bluish gray, fine-to-medium-grained, biomicrite moderately hard, claystone, trace, medium-bluish gray, non-plastic.

LIMESTONE - Limestone, 100%, very pale orange to moderate yellowish brown to light olive gray, fine-to medium-grained, biomicrite, moderately hard, shelly; Dolomite, trace, moderate yellowish brown, finely crystaline; Claystone, trace, olive black.

DOLOMITE & LIMESTONE - Dolomite, 90%, moderate yellowish brown to olive gray, finely to medium crystalline, hard, vuggy; Limestone, 10%, very pale orange to yellowish gray, fine-grained, biosparite, moderately hard; Claystone trace, medium bluish gray, well-cemented.

864-902 38

902-906

906-922 16

922-930 8

930-964 34

964-974 10

LIMESTONE - Limestone, 100%, very pale orange to moderate yellowish brown, fine-grained, biomicrite, moderately hard; Clay, trace, dark greenish gray		
dark greenish gray.	974-985	11
DOLOMITE - Dolomite, 100%, pinkish gray to moderate yellowish brown to medium light gray, microcrystalline to finely crystalline hard.	005 1015	70
,	985-1015	30
DOLOMITE - Dolomite, 95%, moderate yellowish brown to pale yellowish brown, finely-crystaline hard vuggy; Limestone, 5%, very pale orange, fine-grained, biosparite, moderately hard.		
moderatery hard.	1015-1017	2
LIMESTONE AND DOLOMITE - Limestone, 70%, very pale orange to yellowish gray, finely crystalline, biomicrite, moderately hard; Dolomite, 30%, moderate yellowish brown, finely crystaline, hard vuggy.		
rinery crystaline, naru vuggy.	1017-1022	5
LIMESTONE - Limestone, 100%, very pale orange to grayish orange, fine-grained, biomicrite, soft to moderately hard.		
	1022-1025	3
DOLOMITE - Dolomite, 100%, grayish orange to moderate yellowish brown, finely-crystalline, hard, vuggy, some vugs filed with limestone; LImestone trace, very pale orange, fine-grained, biosparite.		
The-grained, brosparice.	1025-1028	3
LIMESTONE - Limestone, 100%, very pale orange to grayish orange, fine-grained, biomicrite, soft, granular; Dolomite, trace, moderate yellowish brown; Shells, trace,		·
echinoids.	1028-1048	20
DOLOMITE AND LIMESTONE - Dolomite, 70%, pale yellowish brown to moderate yellowish brown, finely crystalline, hard, sucrosic; Limestone, 30%, very pale orange, fine-grained, biomicrite, soft to hard; Peat,		
trace, black.	1048-1058	10

LIMESTONE & DOLOMITE - Limestone, 90%, very pale orange, fine-grained, biomicrite, hard; Dolomite, 10%, pale yellowish brown to dusky brown, finely-crystalline, hard, vuggy.		
blown, rinery dryoddrino, nard, vaggy.	1058-1062	4
DOLOMITE & LIMESTONE - Dolomite, 70%, moderate yellowish brown to medium gray to brownish black, finely crystalline, hard vugs filled with limestone; Limestone, 30%, very pale orange, fine-grained, biomicrite, hard.		
pare orange, rine-grained, bromierree, nare-	1062-1068	6
DOLOMITE - Dolomite, 100%, light brown to black, finely-crystaline, hard vuggy; Limestone, trace, yellowish gray, finely crystalline, biomicrite, hard.		
orystalline, similarite, mara-	1068-1075	7
LIMESTONE - Limestone, 95%, very pale orange, fine-grained, biomicrite, hard; Dolomite, 5%, moderate yellowish brown to medium gray, fine-grained, finely-crystalline, foraminifera fossils hard, limestone-filled		
vugs; Shells, trace, echinoids.	1075-1155	80
DOLOMITE - Dolomite, 95%, light brown to dusky brown, microcrystalline to finely-crystalline, hard, vuggy; Limestone, 5%, very pale orange to bluish white, microcrystalline, micrite, hard.		
microstystatine, microst, nara.	1155-1169	14
LIMESTONE & DOLOMITE - Limestone, 60%, very pale orange, fine-grained, biomicrite, moderately hard; Dolomite, 40%, moderate yellowish brown, finely crystalline, hard, limestone filling in vugs.		
1111000010 111111g 111 10go.	1169-1171	2
DOLOMITE AND LIMESTONE - Dolomite, 60%, moderate yellowish brown to medium gray, finely-crystalline, soft to hard, limestone in vugs; Limestone, 40%, very pale orange, fine-grained, biomicrite, moderately hard.		
The-granes, oromicitie, moderatery hard.	1171-1179	8

1454-1507

53

DOLOMITE - Dolomite, 95%, light brown to dark gray, to dusky yellowish brown, microcrystalline to finely crystalline, soft to hard, vuggy; Limestone, 5%, yelowish gray to light bluish gray, microcrystalline to fine-grained, micrite, moderately hard vuggy, pinholes; Peat, trace, black, poorly-cemented, appears in bottom 20 ft. of formation.		
TOTHIQCION:	1179-1289	110
LIMESTONE - Limestone, 100%, yellowish gray to light bluish gray, fine-to medium grained, biosparite, moderately hard; Dolomite, trace, moderate brown, finely crystalline, hard. vuggy.		
, -55J	1289-1295	6
DOLOMITE - Dolomite, 95%, moderate brown, finely-crystalline moderately soft, vuggy; Limestone, 5%, white, fine-grained, biomicrite, hard.		
	1295-1297	2
LIMESTONE - Limestone, 100%, light bluish gray to very pale orange grayish orange, fine to medium-grained, biomicrite, moderately hard; Dolomite, trace, moderate yellowish brown, finely-crystalline, hard, vuggy; Marl, trace, very light gray, soft, plastic.		
trace, very right gray, sont, prastic.	1297-1416	119
DOLOMITE - Dolomite, 95%, moderate yellowish brown, finely-crystalline, hard, vuggy; Limestone, 5%, bluish white, fine-grained, micrite, soft to moderately hard, vuggy, pinholes.		
	1416-1422	6
LIMESTONE - Limestone, 100%, very pale orange, fine-to-medium-grained, biomicrite moderately hard; Dolomite, trace, light brown, fine-to medium crystalline, hard, vuggy.		
voggy.	1422-1454	32
DOLOMITE AND LIMESTONE - Dolomite, 90%, light brown to moderate brown, fine- to medium crystalline, hard; Limestone, 10%, very pale orange, fine-grained, biomicrite, moderately hard.		
IIGT CI+	1454-1507	53

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HARRIS CORP.

LIMESTONE AND DOLOMITE - Limestone, 85%, very pale orange, fine-to medium-grained, biomicrite, moderately hard; Dolomite, 15%, light brown, finely crystalline, hard.

1507-1515 8

DOLOMITE AND LIMESTONE - Dolomite, 60%, very pale orange to light brown, fine-to medium-crystalline, moderately hard to hard, vuggy; Limestone, 40%, very pale orange to very light gray, fine-to medium, grained, biomicrite. moderately hard, fossiliferous.

1515-1535 20

TOTAL DEPTH: 1535

Geraghty & Miller, Inc.

APPENDIX B

RESULTS OF CORE TESTS AND PHOTOGRAPHS OF CORES

SUMMARY OF TEST RESULTS	SUMMA	RY	OF	TEST	RESUL	TS
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Sample	Depth (ft)	Dry Unit Weight (PCF)	Ultimate Com. Strength (psi)	Modulus of Elasticity (psi)	Specific Gravity	Verticle: Permeability (CM/SEC.)	Porosity
/1	1355' - 1365'	106.6	542	150,000	2.69	2.63x10 -4	.365
82	1400' - 1410'	118.9	1793	822,500	2.68	-4 1.21x10	.289
#3	1536' - 1553'	121.6.	2507	1,110,000	2.70	7.01x10 -6	.279
14	1599' - 1606.5'	121.9	2672	937,500	2.74	1.08×10	.287
#5	1654' - 1664'	119.3	1973	1,010,000	2.68	-5 6.03x10	.287

cc: (1) client

SUMMARY OF TEST RESULTS

		•	SUMMARY OF TEST RE	SULIS		Verticle	
Sample	Visual Description	Dry Unit Weight (PCF)	Ultimate Com. Strength (psi)	Modulus of Elasticity (psi)	Specific Gravity	Permeability CM/SEC.	Porosity
1. 1320.0'- 1320.3'	Tan cemented sand- stone (porous)	127.2	1,987	1,270,000	•	2.4 x 10 ⁻³	0.245
2. 1905.17'- 1905.75'	Tan siltstone - (dense)	123.6	2,075	450,000		1.8 x 10 ⁻⁸	0.261
3. 1932.7'- 1933.0'	Hard gray sandstone (dense)	154.0	7,362	1,700,000	2.81	4.9 x 10 ⁻⁹	0.122
4. 1971.2'- 1971.7'	Tan limestone with fractures and voids	193.1	966	630,000	2.70	6.2×10^{-5}	0.388



































