

APPENDIX 3-1
GEOLOGIST'S LITHOLOGIC LOGS

**GEOLOGIST'S LOG
CRASR EXBRY-1**

<u>Depth</u>	<u>Lithology</u>
0-10	Sand, dark yellowish brown (10YR 4/2), unconsolidated, good apparent permeability and porosity, fine quartz, trace organics
10-20	Marl, pale greenish yellow (10Y 8/2), moderately stiff, low apparent permeability and porosity, minor shell
20-30	Clay, greenish gray (5GY 8/1), soft, fine phosphate, abundant marl as above
30-40	Clay, greenish gray (5GY 8/1), soft, fine to pebble phosphate, minor yellowish gray (5Y 8/1) phosphatic limestone, trace coarse to pebble quartz
40-55	Clayey sand, greenish gray (5GY 8/1), medium to pebble quartz, medium to coarse phosphate, increasing clay with depth, common shell
55-65	Sandy clay, greenish gray (5GY 8/1), very soft, fine to medium phosphate, common clayey sand as above
65-75	Sand and shell, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), medium to coarse quartz, minor fine phosphate
75-85	Sand and shell, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), medium to coarse quartz, minor fine phosphate, minor calcite spar, trace yellowish gray phosphatic limestone
85-90	Sand and shell, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), fine to coarse quartz, common fine to medium phosphate,
90-95	Sand and shell, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), fine to medium quartz, minor medium to pebble phosphate, minor silt
95-100	Sand and shell, yellowish gray (5Y 7/2) to light greenish gray (5GY 8/1), unconsolidated, good to excellent apparent permeability and porosity, coarse quartz, abundant coarse phosphate, common yellowish gray (5Y 7/2) sandstone
100-105	Sandstone, greenish gray (5GY 6/1), moderately indurated, calcareous cement, good apparent permeability and porosity, common fine to medium phosphate, abundant sand and shell as above
105-110	Sandstone, greenish gray (5GY 6/1), moderately indurated, calcareous cement, good apparent permeability and porosity, common fine to medium phosphate, common sand and shell as above

**GEOLOGIST'S LOG
CRASR EXBRY-1**

<u>Depth</u>	<u>Lithology</u>
110-135	Clayey sand, greenish gray (5GY 6/1), loosely consolidated, low apparent permeability and porosity, abundant medium to coarse phosphate, common minor sandstone as above
135-140	Sandy clay, greenish gray (5GY 6/1) to dark greenish gray (5GY 4/1), stiff, low apparent permeability and porosity, minor shell
140-145	Clayey sand, greenish gray (5GY 6/1) to dark greenish gray (5GY 4/1), loosely consolidated, low apparent permeability and porosity, abundant medium to coarse phosphate, trace shell
145-155	Sand, light greenish gray (5GY 8/1), unconsolidated, low apparent permeability and porosity, coarse to pebble quartz, common medium to coarse phosphate, minor shell, minor yellowish gray (5Y 8/1) phosphatic sandstone, trace calcareous clay
155-160	Sandy limestone, yellowish gray (5Y 8/1), mudstone to wackestone, moderately hard, well indurated, low to moderate apparent permeability and porosity, common sandstone as above, minor fine phosphate, trace shell
160-165	Limestone, yellowish gray (5Y 8/1), wackestone, moderately hard, moderately well indurated, low to moderate apparent permeability and porosity, common fine to medium quartz sand, minor medium to coarse phosphate, minor shell, trace clay
165-170	Limestone, yellowish gray (5Y 8/1), wackestone, moderately hard, moderately well indurated, low to moderate apparent permeability and porosity, minor fine to medium quartz sand, minor medium to coarse phosphate, minor shell, trace clay
170-175	Dolomitic limestone, very pale orange (10YR 8/2) to pale yellowish brown (10YR 6/2), mudstone to wackestone, hard, well indurated, moderate apparent permeability and porosity, minor coarse to pebble quartz, trace fine phosphate, slightly fossiliferous
175-180	Limestone, very pale orange (10YR 8/2), wackestone to packstone, friable to moderately hard, moderately indurated, moderate to good apparent permeability and porosity, minor fine to pebble quartz, minor lime mud, trace fine to medium phosphate
180-185	Limestone, very pale orange (10YR 8/2) to yellowish gray (5Y 8/1), wackestone to packstone, friable to moderately hard, moderately indurated, moderate to good apparent permeability and porosity, minor fine to pebble quartz, minor lime mud, trace fine to pebble phosphate

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<u>Depth</u>	<u>Lithology</u>
185-190	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone to packstone, friable to moderately hard, moderately indurated, moderate to good apparent permeability and porosity, minor fine to pebble quartz, minor fine phosphate
190-205	Marl, greenish gray (5G 6/1), soft, low apparent permeability and porosity, minor fine phosphate, minor shell
205-210	Marl, greenish gray (5G 6/1), soft, low apparent permeability and porosity, common fine phosphate, minor shell
210-215	Marl, greenish gray (5G 6/1), soft to moderately stiff, low apparent permeability and porosity, common fine phosphate, minor shell, trace fine quartz
215-220	Marly limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), mudstone to wackestone, soft to moderately hard, poorly to moderately indurated, low to moderate apparent permeability and porosity, minor shell, minor fine phosphate
220-225	Marly limestone, greenish gray (5GY 6/1), wackestone to packstone, moderately hard, moderately well indurated, low to moderate apparent permeability and porosity, minor fine phosphate
225-230	Marly limestone, light greenish gray (5GY 8/1) to greenish gray (5GY 6/1), wackestone to packstone, soft to moderately hard, poorly to moderately indurated, low to moderate apparent permeability and porosity, minor coarse quartz, minor fine phosphate, minor shell
230-235	Marl, light greenish gray (5GY 8/1), moderately stiff, low apparent permeability and porosity, common fine phosphate, abundant marly limestone as above
235-250	Clay, greenish gray (5GY 6/1), soft, low apparent porosity/permeability, calcareous, abundant coarse to pebble quartz, phosphatic sand, limestone, and shell
250-260	Clay, greenish gray (5G 6/1), soft, low apparent porosity/permeability, calcareous, moderate coarse grained quartz sand, phosphatic sand, limestone, and shell
260-270	Clay, greenish gray (5GY 6/1), soft, low apparent porosity/permeability, calcareous, abundant coarse grained quartz sand, fine grained phosphate, and limestone

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CRASR EXBRY-1**

<u>Depth</u>	<u>Lithology</u>
270-275	Clay, greenish gray (5GY 6/1), soft, low apparent porosity/permeability, calcareous, moderate coarse grained quartz sand, fine grained phosphatic sand, and limestone
275-280	Clay, greenish gray (5GY 6/1), soft, low apparent porosity/permeability, calcareous, abundant limestone, moderate coarse grained quartz sand, minor fine grained phosphatic sand
280-285	Clay, greenish gray (5GY 6/1), very soft, very low apparent porosity/permeability, abundant limestone, minor quartz and phosphatic sand, shell, and lime mud
285-290	Clay, greenish gray (5GY 6/1), very soft, very low apparent porosity/permeability, minor quartz and phosphatic sand, shell, and lime mud
290-295	Clay, greenish gray (5GY 6/1), very soft, very low apparent porosity/permeability, minor shell and limestone, trace phosphate
295-300	Clay, greenish gray (5GY 6/1), very soft, very low apparent porosity/permeability, minor quartz and phosphatic sand, limestone, and shell
300-312	Clay, greenish gray (5GY 6/1) to dark greenish gray (5GY 4/1), very hard, very low apparent porosity/permeability, calcareous, minor fine-grained quartz and phosphatic sand, trace shell
312-320	Sandstone, medium light gray (N 6) to medium dark gray (N 4), fine-grained quartz and phosphatic sand, very hard, low apparent porosity/permeability, calcareous, abundant clay, trace shell
320-330	Clay, greenish gray (5GY 6/1) to dark greenish gray (5GY 4/1), very soft, very low apparent porosity/permeability, calcareous, moderate fine to coarse-grained quartz and phosphatic sand, shell
330-335	Limestone, yellowish gray (5Y 8/1), packstone/wackestone, moderately hard, low apparent porosity/permeability, abundant fine-grained quartz and phosphatic sand, clay, and shell
335-340	Limestone, yellowish gray (5Y 8/1), packstone/wackestone, moderately hard, low apparent porosity/permeability, abundant clay, moderate fine-grained quartz and phosphatic sand

**GEOLOGIST'S LOG
CRASR EXBRY-1**

<u>Depth</u>	<u>Lithology</u>
340-375	Limestone, yellowish gray (5Y 8/1), packstone/wackestone, moderately hard, low apparent porosity/permeability, abundant clay, minor fine-grained quartz and phosphatic sand
375-380	Clay, greenish gray (5GY 6/1) to dark greenish gray (5GY 4/1), hard, low apparent porosity/permeability, moderate limestone/shell, minor fine-grained quartz and phosphatic sand
390-400	Clay, greenish gray (5GY 6/1) to dark greenish gray (5GY 4/1), soft, low apparent porosity/permeability, calcareous, moderate limestone/shell, minor fine-grained quartz and phosphatic sand
400-420	Limestone, yellowish gray (5Y 8/1), packstone/wackestone, moderately hard, low apparent porosity/permeability, abundant clay, moderate fine-grained quartz and phosphatic sand
420-430	Limestone, yellowish gray (5Y 8/1), packstone/wackestone, moderately hard, low apparent porosity/permeability, moderate clay, fine-grained quartz and phosphatic sand
430-440	Limestone, yellowish gray (5Y 8/1), packstone/wackestone, moderately hard, moderately low apparent porosity/permeability, abundant clay, moderate fine-grained quartz and phosphatic sand
440-450	Limestone, yellowish gray (5Y 8/1), packstone/wackestone, moderately hard, moderately low apparent porosity/permeability, abundant clay, minor fine-grained quartz and phosphatic sand
450-460	Clay, light greenish gray (5GY 8/1), soft, low apparent porosity/permeability, calcareous, abundant limestone/shell, minor fine-grained quartz and phosphatic sand
460-465	Clay, light greenish gray (5GY 8/1), soft, low apparent porosity/permeability, calcareous, moderate limestone/shell, minor fine-grained quartz and phosphatic sand
465-515	Clay, light greenish gray (5GY 8/1), soft, low apparent porosity/permeability, calcareous, minor limestone/shell, fine-grained quartz and phosphatic sand
515-520	Clay, light greenish gray (5GY 8/1), hard, very low apparent porosity/permeability, calcareous, minor limestone and shell, trace fine-grained phosphatic sand

GEOLOGIST'S LOG
CRASR EXBRY-1

<u>Depth</u>	<u>Lithology</u>
520-525	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), packstone/wackestone, slightly dolomitic, hard, low apparent porosity/permeability, abundant clay, trace fine to coarse-grained phosphatic sand
525-535	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), packstone/wackestone, slightly dolomitic, hard, low apparent porosity/permeability, common clay, trace fine to coarse-grained phosphatic sand
535-540	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), packstone/wackestone, slightly dolomitic, hard, low apparent porosity/permeability, moderate clay, trace fine to coarse-grained phosphatic sand
540-545	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), packstone/wackestone, moderately dolomitic, hard, low apparent porosity/permeability, moderate clay, trace fine to coarse-grained phosphatic sand
545-550	Limestone, pinkish gray (5YR 8/1) to light olive gray (5Y 6/1), packstone/wackestone, moderately dolomitic, very hard, low apparent porosity/permeability, minor clay, trace shell, fine to coarse-grained phosphatic sand
550-555	Limestone, pinkish gray (5YR 8/1) to light olive gray (5Y 6/1), packstone/wackestone, moderately dolomitic, very hard, low apparent porosity/permeability, moderate clay, trace shell, fine to coarse-grained phosphatic sand, softer at base of interval with increasing clay
555-560	Clay, greenish gray (5GY 6/1), soft, low apparent porosity/permeability, abundant limestone and quartz and phosphatic sand, grades downward into lime mud, yellowish gray, (5Y 8/1), hard, low apparent porosity/permeability, trace quartz and phosphatic sand
560-575	Limestone, yellowish gray (5Y 8/1), mudstone/packstone, very hard, low apparent porosity/permeability, moderate fossils/shells, and fine quartz and phosphatic sand, grades downward into a lime mud, yellowish gray (5Y 8/1) moderately soft, low apparent porosity/permeability, moderate quartz and phosphatic sand
575-590	Limestone, very light gray (N8) and yellowish gray (5Y 8/1), mudstone/packstone, moderately hard, moderate apparent porosity/permeability, moderate clay, minor fossils/shells, trace quartz and phosphatic fine sand

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CRASR EXBRY-1**

<u>Depth</u>	<u>Lithology</u>
590-615	Limestone, very light gray (N8) and yellowish gray (5Y 8/1), packstone/wackestone, moderately hard, moderate apparent porosity/permeability, abundant fossils/shells, moderate clay, trace quartz and phosphatic fine sand
615-620	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), mudstone/packstone, hard, moderately low apparent porosity/permeability, moderate clay and shell, trace quartz and phosphatic fine sand
620-630	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone/packstone, very hard, moderately low apparent porosity/permeability, abundant clay and shell, trace quartz and phosphatic fine sand
630-665	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone/packstone, very hard, moderately low apparent porosity/permeability, abundant shell, moderate clay, minor quartz and phosphatic fine sand
665-675	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone/packstone, hard, moderately low apparent porosity/permeability, abundant clay, minor shell and quartz and phosphatic fine to coarse sand
675-715	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone/packstone, hard, low apparent porosity/permeability, moderate clay and shell, minor quartz and phosphatic fine to coarse sand
715-735	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone/packstone, hard, moderately low apparent porosity/permeability, abundant clay, moderate shell, minor quartz and phosphatic fine to coarse sand
735-755	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone/packstone, very hard, low apparent porosity/permeability, abundant clay, minor shell and quartz and phosphatic fine sand
755-760	Calcareous silty fine sand, yellowish gray (5Y 8/1), soft, very high apparent porosity/permeability, moderate sandstone fragments and fine-grained quartz, minor fine-grained phosphatic sand

GEOLOGIST'S LOG
CRASR EXBRY-1

<u>Depth</u>	<u>Lithology</u>
760-770	Limestone, yellowish gray (5Y 8/1), mudstone, moderately hard, low apparent porosity/permeability, moderate fine quartz sand, minor fine phosphatic sand
770-775	Lime mud, yellowish gray (5Y 8/1) moderately soft to moderately hard, low apparent porosity/permeability, moderate fine quartz sand, minor fine phosphatic sand
775-790	Limestone, yellowish gray (5Y 8/1), mudstone/packstone/wackestone, soft, low apparent porosity/permeability, abundant clay, minor shell, fine quartz and phosphatic sand
790-810	Limestone, yellowish gray (5Y 8/1), mudstone/packstone, moderately soft, low apparent porosity/permeability, abundant clay, moderate fine quartz and phosphatic sand, minor shell
810-840	Limestone, yellowish gray (5Y 8/1), mudstone/packstone, soft, low apparent porosity/permeability, abundant clay, minor shell, fine quartz and phosphatic sand
840-865	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, soft, moderately low apparent porosity/permeability, abundant shell, moderate clay, minor fine to coarse quartz and phosphatic sand
865-870	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, soft, moderately low apparent porosity/permeability, abundant shell, moderate clay, minor fine quartz and phosphatic sand and lime mud
870-880	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, soft, moderately low apparent porosity/permeability, abundant shell, moderate clay, minor fine quartz and phosphatic sand
880-885	Limestone, very pale orange (10YR 8/2) to pale yellowish brown (10YR 6/2), mudstone/packstone, soft, low apparent porosity/permeability, abundant clay and shell, minor fine to coarse quartz and phosphatic sand
885-890	Limestone, very pale orange (10YR 8/2) to pale yellowish brown (10YR 6/2), mudstone/packstone, soft, low apparent porosity/permeability, abundant shell, moderate clay, minor fine to coarse quartz and phosphatic sand
890-900	Limestone, very pale orange (10YR 8/2) to pale yellowish brown (10YR 6/2), mudstone/packstone, soft, low apparent porosity/permeability, abundant shell, moderate clay, minor fine quartz and phosphatic sand

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<u>Depth</u>	<u>Lithology</u>
900-910	Lime mud, yellowish gray (5Y 8/1), moderately hard, low apparent porosity/permeability, trace shell and very fine-grained phosphatic sand
910-915	Limestone, yellowish gray (5Y 8/1), packstone, hard, low apparent porosity/permeability, moldic porosity, abundant fossils (gastropods, mollusks), trace very fine-grained phosphatic sand
915-920	Lime mud, yellowish gray (5Y 8/1), moderately soft to moderately hard, low apparent porosity/permeability, trace very fine-grained phosphatic sand
920-945	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, soft, low apparent porosity/permeability, moderate fossils and shells, minor clay, trace phosphatic very fine sand
945-950	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, soft, moderately low apparent porosity/permeability, abundant fossils and shell, minor clay and phosphatic fine sand
950-960	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, soft, moderately low apparent porosity/permeability, abundant fossils and shell, minor clay, trace quartz and phosphatic fine sand
960-970	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, hard, low apparent porosity/permeability, abundant fossils and shell, minor clay, trace quartz and phosphatic fine sand
970-980	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, soft, low apparent porosity/permeability, abundant fossils and shell, minor clay, trace quartz and phosphatic fine sand
980-990	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, very hard, low apparent porosity/permeability, abundant fossils and shell, minor clay, trace quartz and phosphatic fine sand
990-1000	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, soft, low apparent porosity/permeability, abundant fossils and shell, minor clay, trace quartz and phosphatic fine sand
1000-1055	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone/packstone, soft, low apparent porosity/permeability, moderate shell, minor clay, trace quartz and phosphatic fine sand

GEOLOGIST'S LOG
CRASR EXBRY-1

<u>Depth</u>	<u>Lithology</u>
1070-1075	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, soft, low apparent porosity/permeability, minor clay, minor shell, trace quartz and phosphatic fine sand
1075-1080	Clay, yellowish gray (5Y 8/1), soft, very low apparent porosity/permeability, calcareous, moderate limestone (mudstone/wackestone), minor shell, trace quartz and phosphatic fine sand
1080-1085	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, moderately soft, low to moderate apparent porosity/permeability, minor clay and shell, trace quartz and phosphatic fine sand
1085-1090	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, moderately soft, low to moderate apparent porosity/permeability, minor clay and shell, trace quartz and phosphatic fine sand
1090-1120 (cored interval)	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, moderately indurated, low apparent porosity/permeability, friable, moderate shells/fossils, trace quartz and phosphatic fine sand
1120-1125	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, moderately indurated, low to moderate apparent porosity/permeability, moderate shell, minor clay, trace phosphatic fine sand
1125-1130	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, moderately indurated, low to moderate apparent porosity/permeability, moderate shell, trace clay and phosphatic fine sand
1130-1140	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, moderately indurated, low to moderate apparent porosity/permeability, moderate shell, trace quartz and phosphatic fine sand
1140-1145	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, marly, moderately indurated, low to moderate apparent porosity/permeability, moderate shell, minor phosphatic clay, trace quartz and phosphatic fine sand
1145-1155	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, moderately indurated, low to moderate apparent porosity/permeability, moderate shell, trace quartz and phosphatic fine sand
1155-1160	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, marly, moderately indurated, low to moderate apparent porosity/permeability, moderate shell, minor phosphatic clay, trace quartz and phosphatic fine sand

**GEOLOGIST'S LOG
CRASR EXBRY-1**

<u>Depth</u>	<u>Lithology</u>
1160-1165	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, moderately indurated, low to moderate apparent porosity/permeability, moderate shell, trace quartz and phosphatic fine sand
1165-1180	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, marly, moderately indurated, low to moderate apparent porosity/permeability, moderate shell, minor phosphatic clay, trace quartz and phosphatic fine sand
1180-1210	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, moderately indurated, moderate to good apparent porosity/permeability, moderate shell
1210-1235	Limestone, yellowish gray (5Y 8/1), mudstone/packstone, moderately well indurated, moderate to good apparent porosity/permeability, moderate shell
1235-1240	Limestone, yellowish gray (5Y 8/1), mudstone/packstone, moderately well indurated, moderate to good apparent porosity/permeability, moderate shell, trace light olive gray (5Y 6/1) dolostone
1240-1275	Limestone, yellowish gray (5Y 8/1), mudstone/packstone, moderately well indurated, moderate to good apparent porosity/permeability, moderate shell
1275-1290	Limestone, yellowish gray (5Y 8/1), mudstone/packstone, moderately well indurated, moderate to good apparent porosity/permeability, moderate shell, minor very light gray (N8) to yellowish gray (5Y 8/1) phosphatic lime mud
1290-1305	Limestone, yellowish gray (5Y 8/1), mudstone/packstone, moderately well indurated, moderate to good apparent porosity/permeability, moderate shell
1305-1325 (cored interval)	Limestone, yellowish gray (5Y 8/1), mudstone/wackestone, moderately hard, low to moderate apparent porosity/permeability, moderate shells/fossils, trace quartz and phosphatic fine sand Grades downward into limestone, light greenish gray (5GY 8/1), packstone, hard, moderate to good apparent porosity/permeability, abundant shells/fossils Grades downward into clay, light greenish gray (5GY 8/1), poorly indurated, low apparent porosity/permeability, calcareous, abundant white (N9) lime mud nodules and streaks

**GEOLOGIST'S LOG
CRASR EXBRY-1**

<u>Depth</u>	<u>Lithology</u>
1325-1330	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, moderately indurated, marly, low to moderate apparent porosity/permeability, moderate shell, common very light gray (N8) clay, minor phosphatic fine sand
1330-1340	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, moderately indurated, moderate to good apparent porosity/permeability, moderate shell, minor very light gray (N8) clay, minor phosphatic fine sand
1340-1345	Limestone, yellowish gray (5Y 8/1), wackestone/packstone, moderately indurated, low to moderate apparent porosity/permeability, moderate shell, common very light gray (N8) clay, minor dark greenish gray (5GY 4/1) stiff clay, minor phosphatic fine sand
1345-1365	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone/packstone, moderately indurated, low to moderate apparent porosity/permeability, moderate shell and very light gray (N8) clay, trace phosphatic fine sand
1365-1398	Limestone, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), wackestone/packstone, poorly to moderately indurated, low apparent porosity/permeability, moderate shell, common very light gray (N8) clay, minor yellowish gray (5Y 8/1) to very light gray (N8) lime mud, trace phosphatic fine sand

APPENDIX 3-2

FGS LITHOLOGIC DESCRIPTIONS

EXBRY1-FGS Lith Log

LITHOLOGIC WELL LOG PRINTOUT

SOURCE - FGS

WELL NUMBER: W-18464
 TOTAL DEPTH: 1400 FT.
 SAMPLES - NONE

COUNTY - HY18464
 LOCATION: T.44S R.28E S.06
 LAT = 26D 41M 13S
 LON = 81D 33M 13S
 ELEVATION: 21 FT

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

OWNER/DRILLER: SFWMD/DIVERSIFIED DRILLING CORP.

WORKED BY: E. DORN 9/2004
 SECTION ABB
 BERRY GROVE; EXBRY-1
 SAMPLES NOT WASHED; REVERSE-AIR DRILLED

0.	-	75.	121PCPC	PLIOCENE-PLEISTOCENE
75.	-	215.	122PCRV	PEACE RIVER FM.
215.	-	835.	122ARCA	ARCADIA FM.
835.	-	1075.	123SWNN	SUWANNEE LIMESTONE
1075.	-	1400.	124OCAL	OCALA GROUP

0 - 10 NO SAMPLES

10 - 20 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE, INTRACLASTS
 10% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: SHELL-20%, CLAY-03%
 FOSSILS: MOLLUSKS

20 - 30 CLAY; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR; MODERATE INDURATION
 CEMENT TYPE(S): CLAY MATRIX
 ACCESSORY MINERALS: CALCILUTITE-05%, SHELL-02%
 FOSSILS: MOLLUSKS

30 - 40 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE, INTRACLASTS
 15% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: QUARTZ SAND-10%, SHELL-05%, CLAY-01%
 FOSSILS: MOLLUSKS

40 - 45 SAND; TRANSPARENT TO VERY LIGHT ORANGE
 POROSITY: INTERGRANULAR
 GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO GRANULE
 ROUNDNESS: ANGULAR TO WELL-ROUNDED; LOW SPHERICITY
 UNCONSOLIDATED
 ACCESSORY MINERALS: CALCILUTITE-05%, SHELL-01%
 FOSSILS: MOLLUSKS

45 - 50 SAND; TRANSPARENT TO VERY LIGHT ORANGE
 POROSITY: INTERGRANULAR
 GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO GRAVEL
 ROUNDNESS: ANGULAR TO WELL-ROUNDED; LOW SPHERICITY
 UNCONSOLIDATED

EXBRY1-FGS Lith Log

ACCESSORY MINERALS: LIMESTONE-20%, SHELL-03%
FOSSILS: MOLLUSKS

- 50 - 55 SAND; TRANSPARENT TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO GRAVEL
ROUNDNESS: WELL-ROUNDED TO ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-10%, SHELL-01%
FOSSILS: MOLLUSKS
- 55 - 60 CALCILUTITE; YELLOWISH GRAY TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
01% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-20%, SHELL- T%
FOSSILS: MOLLUSKS
- 60 - 65 CALCILUTITE; YELLOWISH GRAY TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, CRYSTALS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-30%, SHELL- T%
FOSSILS: MOLLUSKS
- 65 - 70 SHELL BED; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR; UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-10%, LIMESTONE-10%
FOSSILS: MOLLUSKS
- 70 - 75 SHELL BED; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR; UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-05%, LIMESTONE-03%
FOSSILS: MOLLUSKS, BARNACLES
- 75 - 80 SAND; TRANSPARENT TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: MEDIUM; RANGE: VERY FINE TO MEDIUM
ROUNDNESS: SUB-ANGULAR TO SUB-ROUNDED; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-30%, SHELL-30%, CALCITE-05%
FOSSILS: MOLLUSKS, BARNACLES
- 80 - 85 SAND; TRANSPARENT TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-15%, SHELL-15%, CALCITE- T%
FOSSILS: MOLLUSKS, BARNACLES
- 85 - 95 SAND; TRANSPARENT TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-30%, SHELL-15%
PHOSPHATIC SAND-02%
FOSSILS: MOLLUSKS

EXBRY1-FGS Lith Log

- 95 - 100 SAND; TRANSPARENT TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-20%, SHELL-15%, CALCITE-05%
PHOSPHATIC SAND-03%
FOSSILS: MOLLUSKS
- 100 - 105 AS ABOVE
- 105 - 110 SAND; TRANSPARENT TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-20%, SHELL-20%
PHOSPHATIC SAND-05%
FOSSILS: MOLLUSKS
- 110 - 115 SAND; NO COLOR GIVEN TO LIGHT GRAYISH RED
9 % POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-05%, SHELL-05%
PHOSPHATIC SAND-05%
FOSSILS: MOLLUSKS, BARNACLES
- 115 - 120 AS ABOVE
- 120 - 125 SAND; TRANSPARENT TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-01%, SHELL-01%
FOSSILS: FOSSIL FRAGMENTS
- 125 - 130 SAND; TRANSPARENT TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-02%, SHELL-05%
PHOSPHATIC SAND-05%
FOSSILS: MOLLUSKS, BARNACLES
- 130 - 135 SAND; TRANSPARENT TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-05%, SHELL-03%
PHOSPHATIC SAND-05%
FOSSILS: MOLLUSKS, BARNACLES
- 135 - 140 SAND; TRANSPARENT TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN SIZE: FINE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED

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ACCESSORY MINERALS: CLAY-05%, SHELL-03%
FOSSILS: MOLLUSKS, BARNACLES

- 140 - 145 SAND; TRANSPARENT TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN SIZE: COARSE; RANGE: VERY FINE TO COARSE
ROUNDNESS: SUB-ROUNDED TO SUB-ANGULAR; LOW SPHERICITY
UNCONSOLIDATED
ACCESSORY MINERALS: LIMESTONE-05%, SHELL-03%
PHOSPHATIC SAND-03%
FOSSILS: MOLLUSKS, BARNACLES
- 145 - 150 WACKESTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-15%, PHOSPHATIC SAND-05%
PHOSPHATIC SAND-01%
FOSSILS: MOLLUSKS, BARNACLES
- 150 - 155 WACKESTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, CRYSTALS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-05%
FOSSILS: MOLLUSKS, BARNACLES
- 155 - 160 WACKESTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, CRYSTALS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-30%, PHOSPHATIC SAND-03%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: BARNACLES
- 160 - 165 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, CRYSTALS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-02%, PHOSPHATIC SAND-01%
CLAY- T%
OTHER FEATURES: LOW RECRYSTALLIZATION
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS
- 165 - 170 AS ABOVE
- 170 - 175 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE

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MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-02%, QUARTZ SAND-01%
CALCITE- T%
FOSSILS: NO FOSSILS

175 - 180 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-02%, PHOSPHATIC SAND- T%
OTHER FEATURES: LOW RECRYSTALLIZATION, DOLOMITIC
FOSSILS: NO FOSSILS

180 - 185 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, CRYSTALS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-01%
OTHER FEATURES: LOW RECRYSTALLIZATION, DOLOMITIC
FOSSILS: NO FOSSILS

185 - 190 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, CRYSTALS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-01%
OTHER FEATURES: LOW RECRYSTALLIZATION, DOLOMITIC
FOSSILS: BARNACLES

190 - 195 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-15%
CLAY-10%
OTHER FEATURES: CHALKY
FOSSILS: NO FOSSILS
CLAY MIXED WITH MICRITE

195 - 200 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-15%, PHOSPHATIC SAND-05%
CLAY-10%
OTHER FEATURES: CHALKY
FOSSILS: SHARKS TEETH

200 - 205 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE

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POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-05%
CLAY-05%
OTHER FEATURES: CHALKY
FOSSILS: MOLLUSKS

205 - 210 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-40%, PHOSPHATIC SAND-05%
CLAY-05%
FOSSILS: NO FOSSILS

210 - 215 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-20%, PHOSPHATIC SAND-01%
CLAY-05%, CALCITE-01%
OTHER FEATURES: CHALKY
FOSSILS: FOSSIL FRAGMENTS

215 - 220 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-01%, PHOSPHATIC SAND- T%
CLAY-03%
OTHER FEATURES: CHALKY
FOSSILS: FOSSIL FRAGMENTS

220 - 225 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-05%, PHOSPHATIC SAND-05%
OTHER FEATURES: CHALKY
FOSSILS: FOSSIL FRAGMENTS

225 - 230 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-02%, PHOSPHATIC SAND- T%
OTHER FEATURES: CHALKY

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FOSSILS: FOSSIL FRAGMENTS

- 230 - 235 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE
 RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: QUARTZ SAND-07%, PHOSPHATIC SAND-01%
 CLAY-02%
 OTHER FEATURES: CHALKY
 FOSSILS: FOSSIL FRAGMENTS
- 235 - 240 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE
 RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: QUARTZ SAND-01%, CLAY- T%
 OTHER FEATURES: CHALKY
 FOSSILS: FOSSIL FRAGMENTS
- 240 - 245 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE
 RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: QUARTZ SAND- T%, PHOSPHATIC SAND-01%
 CLAY- T%
 OTHER FEATURES: CHALKY
 FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS
- 245 - 250 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE
 RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: QUARTZ SAND-01%, CLAY-01%
 OTHER FEATURES: CHALKY
 FOSSILS: FOSSIL FRAGMENTS
 SAMPLE APPEARS UNWASHED
- 250 - 255 AS ABOVE
- 255 - 260 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE
 RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: QUARTZ SAND-01%, CLAY-01%
 PHOSPHATIC SAND-01%
 OTHER FEATURES: CHALKY
 FOSSILS: FOSSIL FRAGMENTS
- 260 - 265 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE
 RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION

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CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-01%, CLAY-01%
PHOSPHATIC SAND-01%
OTHER FEATURES: CHALKY
FOSSILS: FOSSIL FRAGMENTS

- 265 - 270 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-03%, PHOSPHATIC SAND-05%
CLAY-01%
OTHER FEATURES: CHALKY
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS, SHARKS TEETH
- 270 - 275 CALCILUTITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-15%, PHOSPHATIC SAND-07%
LIMESTONE-10%
FOSSILS: NO FOSSILS
- 275 - 280 CALCILUTITE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
UNCONSOLIDATED
ACCESSORY MINERALS: QUARTZ SAND-15%, PHOSPHATIC SAND-07%
LIMESTONE-10%, SHELL-05%
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS
- 280 - 285 MUDSTONE; LIGHT OLIVE GRAY TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 02% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: CLAY-35%, QUARTZ SAND-10%
PHOSPHATIC SAND-10%, SHELL-03%
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS
- 285 - 290 CLAY; LIGHT OLIVE GRAY TO YELLOWISH GRAY
POROSITY: INTERGRANULAR; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCILUTITE-40%, QUARTZ SAND-01%
PHOSPHATIC SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 290 - 295 MUDSTONE; LIGHT OLIVE GRAY TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE
RANGE: VERY FINE TO MICROCRYSTALLINE; MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: CLAY-40%, QUARTZ SAND-01%
PHOSPHATIC SAND-05%, SHELL-05%
FOSSILS: FOSSIL FRAGMENTS
- 295 - 300 CLAY; LIGHT OLIVE GRAY TO YELLOWISH GRAY
POROSITY: INTERGRANULAR; MODERATE INDURATION
CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
ACCESSORY MINERALS: CALCILUTITE-30%, PHOSPHATIC SAND-30%
QUARTZ SAND-05%

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FOSSILS: NO FOSSILS

- 300 - 305 AS ABOVE
- 305 - 310 AS ABOVE
- 310 - 315 CLAY; LIGHT OLIVE GRAY TO VERY LIGHT ORANGE
 POROSITY: INTERGRANULAR; POOR INDURATION
 CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
 ACCESSORY MINERALS: LIMESTONE-15%, PHOSPHATIC SAND-30%
 QUARTZ SAND-01%
 FOSSILS: FOSSIL FRAGMENTS
- 315 - 320 CLAY; LIGHT OLIVE GRAY TO VERY LIGHT ORANGE
 POROSITY: INTERGRANULAR; POOR INDURATION
 CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
 ACCESSORY MINERALS: CALCILUTITE-20%, LIMESTONE-01%
 PHOSPHATIC SAND-25%, QUARTZ SAND-01%
 FOSSILS: FOSSIL FRAGMENTS
- 320 - 325 CLAY; LIGHT OLIVE GRAY TO VERY LIGHT ORANGE
 POROSITY: INTERGRANULAR; POOR INDURATION
 CEMENT TYPE(S): CLAY MATRIX, CALCILUTITE MATRIX
 ACCESSORY MINERALS: CALCILUTITE-10%, LIMESTONE-20%
 PHOSPHATIC SAND-25%, QUARTZ SAND-01%
 FOSSILS: FOSSIL FRAGMENTS
- 325 - 330 CALCILUTITE; LIGHT OLIVE GRAY TO VERY LIGHT ORANGE
 POROSITY: INTERGRANULAR
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
 ACCESSORY MINERALS: LIMESTONE-20%, CLAY-20%
 PHOSPHATIC SAND-20%, QUARTZ SAND-01%
 FOSSILS: FOSSIL FRAGMENTS
- 330 - 335 WACKESTONE; YELLOWISH GRAY TO LIGHT OLIVE GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
 20% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
 ACCESSORY MINERALS: CLAY-10%, PHOSPHATIC SAND-20%
 QUARTZ SAND-02%
 FOSSILS: FOSSIL FRAGMENTS, BRYOZOA, MOLLUSKS
- 335 - 340 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE, SKELETAL
 10% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
 ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-20%
 QUARTZ SAND-01%
 FOSSILS: FOSSIL FRAGMENTS
- 340 - 345 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
 10% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
 POOR INDURATION

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CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-20%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS

345 - 350 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-15%, CLAY-02%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS

350 - 355 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-10%, CLAY-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS

355 - 360 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
07% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-15%, CLAY-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

360 - 365 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

365 - 370 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-15%, CLAY-01%
QUARTZ SAND- T%
FOSSILS: FOSSIL FRAGMENTS, MOLLUSKS

370 - 375 MUDSTONE; YELLOWISH GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL

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- 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-15%, CLAY-01%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 375 - 380 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: CLAY-40%, PHOSPHATIC SAND-10%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 380 - 385 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: CLAY-40%, PHOSPHATIC SAND-10%
QUARTZ SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 385 - 390 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-10%, PHOSPHATIC SAND-15%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 390 - 395 NO SAMPLES
- 395 - 400 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
05% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
MODERATE INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-05%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 400 - 405 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-03%
QUARTZ SAND-03%

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FOSSILS: FOSSIL FRAGMENTS

- 405 - 410 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-03%
QUARTZ SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 410 - 415 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-03%
QUARTZ SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 415 - 420 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-03%
QUARTZ SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 420 - 425 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-05%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 425 - 430 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, SKELETAL
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-03%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 430 - 435 AS ABOVE
- 435 - 440 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS

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GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-15%, CLAY-02%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS

- 440 - 445 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-15%, CLAY-02%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 445 - 450 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-15%, CLAY-02%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 450 - 455 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-15%, CLAY-01%
QUARTZ SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 455 - 460 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-01%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 460 - 465 AS ABOVE
- 465 - 470 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-25%, QUARTZ SAND-05%
CLAY-01%
FOSSILS: FOSSIL FRAGMENTS

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- 470 - 475 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, QUARTZ SAND-05%
CLAY-05%
FOSSILS: FOSSIL FRAGMENTS
- 475 - 480 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, QUARTZ SAND-05%
CLAY-05%
FOSSILS: FOSSIL FRAGMENTS
- 480 - 485 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, PELLET
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-20%, CLAY-20%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 485 - 490 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, PELLET
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-25%, PHOSPHATIC SAND-15%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 490 - 495 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-07%, PHOSPHATIC SAND-20%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 495 - 500 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX

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ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-15%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS

- 500 - 505 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-10%, CLAY-05%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 505 - 510 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-07%, CLAY-03%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 510 - 515 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, CLAY-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 515 - 520 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 520 - 525 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 525 - 530 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION

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CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS

- 530 - 535 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 535 - 540 AS ABOVE
- 540 - 545 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 545 - 550 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-02%, CLAY-10%
FOSSILS: FOSSIL FRAGMENTS
- 550 - 555 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-03%, CLAY-05%
FOSSILS: FOSSIL FRAGMENTS
- 555 - 560 NO SAMPLES
- 560 - 565 NO SAMPLES
- 565 - 570 NO SAMPLES
- 570 - 575 NO SAMPLES
- 575 - 580 METAMORPHIC; LIGHT OLIVE GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: LIMESTONE-50%
FOSSILS: FOSSIL FRAGMENTS
- 580 - 585 METAMORPHIC; LIGHT OLIVE GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR; POOR INDURATION
CEMENT TYPE(S): CLAY MATRIX
ACCESSORY MINERALS: LIMESTONE-48%, PHOSPHATIC SAND-02%

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FOSSILS: FOSSIL FRAGMENTS

- 585 - 590 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: CLAY-45%, PHOSPHATIC SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 590 - 595 AS ABOVE
- 595 - 600 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: CLAY-47%, PHOSPHATIC SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 600 - 605 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-30%, PHOSPHATIC SAND-05%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 605 - 610 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-25%, PHOSPHATIC SAND-05%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 610 - 615 AS ABOVE
- 615 - 620 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-25%, PHOSPHATIC SAND-03%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 620 - 625 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-20%, PHOSPHATIC SAND-03%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS

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- 625 - 630 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-10%, PHOSPHATIC SAND-05%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 630 - 635 AS ABOVE
- 635 - 640 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE; 10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-03%, PHOSPHATIC SAND-05%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 640 - 645 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-05%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 645 - 650 MUDSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-03%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 650 - 655 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-05%, CLAY-03%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 655 - 660 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX

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ACCESSORY MINERALS: PHOSPHATIC SAND-05%, CLAY-05%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS

- 660 - 665 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-15%, PHOSPHATIC SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 665 - 670 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-15%, PHOSPHATIC SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 670 - 675 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-15%, PHOSPHATIC SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 675 - 680 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-10%, PHOSPHATIC SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 680 - 685 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-25%, PHOSPHATIC SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 685 - 690 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-30%, PHOSPHATIC SAND-02%
FOSSILS: FOSSIL FRAGMENTS

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- 690 - 695 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-30%, PHOSPHATIC SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 695 - 700 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-20%, PHOSPHATIC SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 700 - 705 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-20%, PHOSPHATIC SAND-03%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 705 - 710 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-20%, PHOSPHATIC SAND-03%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 710 - 715 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-02%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 715 - 720 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-05%
QUARTZ SAND-07%

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FOSSILS: FOSSIL FRAGMENTS

- 720 - 725 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-05%
QUARTZ SAND-07%
FOSSILS: FOSSIL FRAGMENTS
- 725 - 730 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-15%, PHOSPHATIC SAND-05%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 730 - 735 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-30%, PHOSPHATIC SAND-03%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 735 - 740 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-20%, PHOSPHATIC SAND-05%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 740 - 745 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-25%, PHOSPHATIC SAND-03%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 745 - 750 NO SAMPLES
- 750 - 755 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS

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GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-15%, PHOSPHATIC SAND-05%
QUARTZ SAND-10%
FOSSILS: FOSSIL FRAGMENTS

755 - 760 NO SAMPLES

760 - 765 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-35%, PHOSPHATIC SAND-03%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS

765 - 770 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-30%, PHOSPHATIC SAND-05%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS

770 - 775 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-35%, PHOSPHATIC SAND-05%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS

775 - 780 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-30%, PHOSPHATIC SAND-05%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS

780 - 785 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-30%, PHOSPHATIC SAND-05%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS

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- 785 - 790 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-30%, PHOSPHATIC SAND-05%
QUARTZ SAND-05%
FOSSILS: FOSSIL FRAGMENTS
- 790 - 795 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-25%, PHOSPHATIC SAND-03%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS, ECHINOID
- 795 - 800 MUDSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
10% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-25%, PHOSPHATIC SAND-02%
QUARTZ SAND-02%
FOSSILS: FOSSIL FRAGMENTS
- 800 - 805 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-20%, PHOSPHATIC SAND-02%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 805 - 810 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-25%, PHOSPHATIC SAND-02%
QUARTZ SAND-03%
FOSSILS: FOSSIL FRAGMENTS
- 810 - 815 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, INTRACLASTS
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX

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ACCESSORY MINERALS: CLAY-40%, PHOSPHATIC SAND-02%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS

- 815 - 820 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-40%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 820 - 825 CLAY; LIGHT OLIVE GRAY TO VERY LIGHT ORANGE
POROSITY: INTERGRANULAR; POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX, CLAY MATRIX
ACCESSORY MINERALS: LIMESTONE-45%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 825 - 830 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-15%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 830 - 835 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-20%, PHOSPHATIC SAND- T%
QUARTZ SAND- T%
FOSSILS: FOSSIL FRAGMENTS
- 835 - 840 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
15% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 840 - 845 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-10%, PHOSPHATIC SAND-01%

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QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS

- 845 - 850 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 850 - 855 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-07%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 855 - 860 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 860 - 865 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 865 - 870 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 870 - 875 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE

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POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND- T%
QUARTZ SAND- T%
FOSSILS: FOSSIL FRAGMENTS

- 875 - 880 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND- T%
QUARTZ SAND- T%
FOSSILS: FOSSIL FRAGMENTS
- 880 - 885 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-03%, PHOSPHATIC SAND-01%
QUARTZ SAND- T%
FOSSILS: FOSSIL FRAGMENTS
- 885 - 890 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-03%, PHOSPHATIC SAND-01%
QUARTZ SAND- T%
FOSSILS: FOSSIL FRAGMENTS
- 890 - 895 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-05%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%
FOSSILS: FOSSIL FRAGMENTS
- 895 - 900 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
35% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-10%, PHOSPHATIC SAND-01%
QUARTZ SAND-01%, CALCITE-01%
FOSSILS: FOSSIL FRAGMENTS
- 900 - 905 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR

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GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-07%, PHOSPHATIC SAND- T%
FOSSILS: FOSSIL FRAGMENTS

- 905 - 910 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
35% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, QUARTZ SAND-01%
PYRITE-10%, CLAY-02%
FOSSILS: FOSSIL FRAGMENTS
PYRITE LOOKS OXIDIZED; ~20%OF SAMPLE IS DRILL CASING SCALES
- 910 - 915 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PYRITE-03%, CLAY-02%
FOSSILS: FOSSIL FRAGMENTS
- 915 - 920 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: QUARTZ SAND-03%, PYRITE-01%
FOSSILS: FOSSIL FRAGMENTS
PYRITE IS OXIDIZED
- 920 - 925 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, QUARTZ SAND-03%
CLAY-01%
FOSSILS: FOSSIL FRAGMENTS
- 925 - 930 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, QUARTZ SAND-01%
PYRITE-01%
FOSSILS: FOSSIL FRAGMENTS
PYRITE IS OXIDIZED

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- 930 - 935 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
30% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, CLAY-01%
FOSSILS: FOSSIL FRAGMENTS
- 935 - 940 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND-01%, CLAY-01%
PYRITE-01%
FOSSILS: FOSSIL FRAGMENTS
- 940 - 945 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND- T%, CLAY- T%
QUARTZ SAND- T%
FOSSILS: FOSSIL FRAGMENTS
- 945 - 950 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND- T%, CLAY-01%
FOSSILS: FOSSIL FRAGMENTS
- 950 - 955 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND- T%
FOSSILS: FOSSIL FRAGMENTS
- 955 - 960 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, PELLET
20% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
- 960 - 965 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY

EXBRY1-FGS Lith Log

POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, PELLET
25% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: PHOSPHATIC SAND- T%

965 - 970 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, PELLET
35% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS

970 - 975 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, PELLET
35% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS

975 - 980 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, INTRACLASTS, PELLET
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-10%
FOSSILS: FOSSIL FRAGMENTS

980 - 985 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-02%
FOSSILS: FOSSIL FRAGMENTS

985 - 990 NO SAMPLES

990 - 995 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, INTRACLASTS
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS

995 - 1000 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, INTRACLASTS

EXBRY1-FGS Lith Log

45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS

1000 - 1005 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, INTRACLASTS
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-02%
FOSSILS: FOSSIL FRAGMENTS

1005 - 1010 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, INTRACLASTS
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-02%
FOSSILS: FOSSIL FRAGMENTS

1010 - 1015 WACKESTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, INTRACLASTS
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS

1015 - 1020 PACKSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, INTRACLASTS
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS

1020 - 1025 PACKSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS

1025 - 1030 PACKSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION

EXBRY1-FGS Lith Log

CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS

- 1030 - 1035 PACKSTONE; VERY LIGHT ORANGE TO LIGHT OLIVE GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS
- 1035 - 1040 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS, FOSSIL MOLDS
- 1040 - 1045 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS
- 1045 - 1050 AS ABOVE
- 1050 - 1055 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: FINE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: CLAY-01%
FOSSILS: FOSSIL FRAGMENTS
- 1055 - 1060 NO SAMPLES
- 1060 - 1065 NO SAMPLES
- 1065 - 1070 NO SAMPLES
- 1070 - 1075 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
NUMMULITES; LEPIDOCYCLINA
- 1075 - 1080 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY

EXBRY1-FGS Lith Log

POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
OTHER FEATURES: CHALKY, POOR SAMPLE
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
NUMMULITES; LOTS OF CASING AND SPIDERWEBS

1080 - 1085 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
OTHER FEATURES: CHALKY, POOR SAMPLE
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

1085 - 1090 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
NUMMULITES

1090 - 1095 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
40% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
NUMMULITES

1095 - 1100 NO SAMPLES

1100 - 1105 NO SAMPLES

1105 - 1110 NO SAMPLES

1110 - 1115 NO SAMPLES

1115 - 1120 NO SAMPLES

1120 - 1125 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
LEPIDOCYCLINA; NUMMULITES

1125 - 1130 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, PELLET, SKELETAL

EXBRY1-FGS Lith Log

55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA, ECHINOID
NUMMULITES; LEPIDOCYCLINA

- 1130 - 1135 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
NUMMULITES; LEPIDOCYCLINA
- 1135 - 1140 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
NUMMULITES; LEPIDOCYCLINA
- 1140 - 1145 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
NUMMULITES; LEPIDOCYCLINA
- 1145 - 1150 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
NUMMULITES
- 1150 - 1155 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
NUMMULITES; LEPIDOCYCLINA
- 1155 - 1160 PACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION

EXBRY1-FGS Lith Log

CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
NUMMULITES;LEPIDOCYCLINA

- 1160 - 1165 AS ABOVE
- 1165 - 1170 PACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
NUMMULITES; LEPIDOCYCLINA
- 1170 - 1175 PACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS, BRYOZOA
- 1175 - 1180 PACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS
- 1180 - 1185 PACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS, BRYOZOA
- 1185 - 1190 PACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS, BRYOZOA
- 1190 - 1195 AS ABOVE
- 1195 - 1200 WACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET

EXBRY1-FGS Lith Log

45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS, BRYOZOA

1200 - 1205 WACKESTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS

1205 - 1210 PACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS, BRYOZOA

1210 - 1215 PACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS, BRYOZOA
NUMMULITES. LEPIDOCYCLINA

1215 - 1220 PACKSTONE; VERY LIGHT ORANGE TO GRAYISH ORANGE
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
ACCESSORY MINERALS: IRON STAIN- T%
FOSSILS: BENTHIC FORAMINIFERA, FOSSIL FRAGMENTS

1220 - 1225 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
LEPIDOCYCLINA; NUMMULITES

1225 - 1230 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE

EXBRY1-FGS Lith Log

POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

- 1230 - 1235 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
LEPIDOCYCLINA; NUMMULITES
- 1235 - 1240 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1240 - 1245 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1245 - 1250 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA, ECHINOID
- 1250 - 1255 NO SAMPLES
- 1255 - 1260 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
45% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1260 - 1265 WACKESTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: CALCILUTITE, SKELETAL, PELLET
50% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: VERY FINE; RANGE: COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1265 - 1270 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR

EXBRY1-FGS Lith Log

GRAIN TYPE: SKELETAL, CALCILUTITE, PELLET
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

1270 - 1275 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

1275 - 1280 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA, ECHINOID

1280 - 1285 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
55% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

1285 - 1290 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

1290 - 1295 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: SKELETAL, PELLET, CALCILUTITE
65% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

1295 - 1300 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR
GRAIN TYPE: SKELETAL, PELLET, CALCILUTITE
60% ALLOCHEMICAL CONSTITUENTS
GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
POOR INDURATION
CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

1300 - 1305 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
POROSITY: INTERGRANULAR

EXBRY1-FGS Lith Log

GRAIN TYPE: SKELETAL, PELLET, CALCILUTITE
 65% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

- 1305 - 1310 NO SAMPLES
- 1310 - 1315 NO SAMPLES
- 1315 - 1320 NO SAMPLES
- 1320 - 1325 NO SAMPLES
- 1325 - 1330 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, PELLET, CALCILUTITE
 65% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: ORGANICS-05%
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1330 - 1335 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, PELLET, CALCILUTITE
 65% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1335 - 1340 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, PELLET, CALCILUTITE
 60% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: ORGANICS-05%
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1340 - 1345 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
 70% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1345 - 1350 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
 75% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: ORGANICS-02%
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

EXBRY1-FGS Lith Log

- 1350 - 1355 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
 75% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: ORGANICS-01%
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA, ECHINOID
- 1355 - 1360 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
 70% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1360 - 1365 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, PELLET, CALCILUTITE
 60% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1365 - 1370 AS ABOVE
- 1370 - 1375 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
 75% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1375 - 1380 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: SKELETAL, INTRACLASTS, CALCILUTITE
 65% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1380 - 1385 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: INTRACLASTS, SKELETAL, CALCILUTITE
 65% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1385 - 1390 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: INTRACLASTS, CALCILUTITE, SKELETAL
 60% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION

EXBRY1-FGS Lith Log

CEMENT TYPE(S): CALCILUTITE MATRIX
FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA

- 1390 - 1395 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: PELLET, CALCILUTITE, SKELETAL
 60% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1395 - 1400 PACKSTONE; VERY LIGHT ORANGE TO YELLOWISH GRAY
 POROSITY: INTERGRANULAR
 GRAIN TYPE: INTRACLASTS, CALCILUTITE, SKELETAL
 70% ALLOCHEMICAL CONSTITUENTS
 GRAIN SIZE: COARSE; RANGE: VERY COARSE TO MICROCRYSTALLINE
 POOR INDURATION
 CEMENT TYPE(S): CALCILUTITE MATRIX
 ACCESSORY MINERALS: ORGANICS-01%
 FOSSILS: FOSSIL FRAGMENTS, BENTHIC FORAMINIFERA
- 1400 TOTAL DEPTH