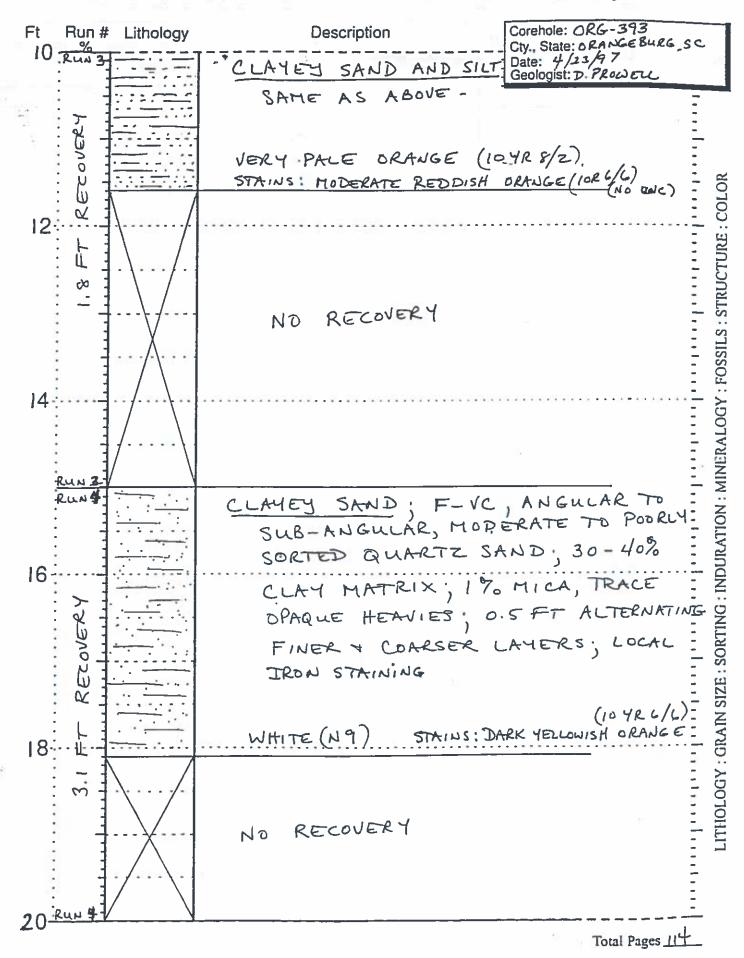
RAY CHRISTOPHER'S SAMPLES = RAYC.

MODERATE YELLOWISH BROWN (104R 5/4) TO MODERATE REDDISH BROWN (10R4/6)

CLAYEY SAND + SILT . F- VF, SUB-ANGULAR, WELL SORTED

QUARTZ SAND AND SILT; 20-40% WHITE CLAY MATRIX, 190 MICA, 170 VF OPAQUE HEAVIES; WELL LAMINATED WITH 1-5 mm BEDS; 15°- 20° X-BEDS; EVIDENCE OF OXIDATION

STAINING NO RECOVER



			· ·	•	
Ft 20.	Run #	Lithology	Description	Corehole: ORG-393 Cty., State: ORANGE BURG, 5	c
20	RUNZ		CLAYEY SAND, SAME	Date: 4/23/97 Geologist: D. PROWELL	
. .	-		AS ABOVE ; HEAVILY	STAINED	
ii :	-	ii		5	-
•	> :		DARK YELLOWISH ORANGE (10	YR 6/8)	· ~
:	bverky		CLAYEY SAND AND SI	LT, F-VF, SUB-	070
22:			ANGULAR WELL SOK	CTED OTZ. SAND	STRUCTURE: COLOR
•	7.		AND SILT, 20-30% 2% MICA, 1% OPAQUE	CLAY MATRIX, :	CTUE
•			MOTTLED TEXTURE, I DARK YELLOWISH DRANGE	ROH OXIDATION;	TRU
•	3.1		DAKK YELLOWISH DRANGE	EINING LIPWARDS -	
•		.\/.		SEQUENCE: \$40.5'	FOSSILS
24:			NO RECOVERY		_ 3
		. /\			ALOC
:	4 年		1 0- 1		NDURATION: MINERALOGY
Į.	uu 5		CLAYEY SAND AND SIL		~ ∑ :: Z
•	:	- 1.1:	ANGULAR, MODERATE	LY SORTED :	\TIO
26:			QTZ. SAND AND SIL		DUR
	1		CLAY; 2-3% MICA	-	=
•	> 1		DARK YELLOWISH DRANGE	= (10 YR 6/8)	TINC
•	ZOVERY		SHER YELCOWISH ORTHOGE		SOF
•			NO RECOVERY	j = i	GRAIN SIZE : SORTING
20:	- RE		a cara cara,		AIN
28:-					
•	1.2	/-		1	TITIOLOGY
:	1		NO RECOVERY	: :	7110
•	1		140 140 0000 - 1	ı E	I
•	1		4	i i	
30- ^P	<u>un \$ ∤</u>				•
				Total Pages <u>U+</u>	•

Ft 30	Run#	Lithology	Description Corehole: ORG-393 Ctv., State: ORANGE BUKG	sc
30	RUNB		CLAYEY SAND; F-VC Date: 4/23/97 Geologist: D. PROWELL SUB-ANGULAR TO	
<u>.</u>			SUB-ROUNDED, POORLY SORTED QUARTZ SAND IN 5 - 25% CLAY	=
	× ;		MATRIX: 2-3% MICA; 1% OPAQUE	
20	COVER		HEAVIES, TRACE FELDSPAR; TRACE CARBON/MANGANESE?: CRUDEL	9
32	REC		BEDDED IN FINING UPWARDS	j [.] - rure : 0
	E I		SEQUENCE;	STRUCT
=	4.5	· · · · · · ·		
				FOSSILS
34:				11.1.1 OGY:
5 .	+		DARK YEZLOWISH DRANGE (10 YR G/L) NO RECOVERY	INDURATION: MINERALOGY
: £	24N7 - :		CLAYEY SAND. SAME AS ABOVE	
	5		BUT COARSER WITH LESS CLAY	RATIO
36	01/67	—		INDNI
:	REC		*	TING
:	F 1	-		8: SOR
:	2.8		MODERATE YELLOWISH BROWN (10 YR 5/4)	LITHOLOGY : GRAIN SIZE : SORTING
38	1			1 1 1 1 : GRA
				Y201
		X	NO RECOVERY	LITHO
	<u> </u>	/		
40 <u>A</u>	4N7 \$		Total British	
			Total Pages 114	_

Ft Run # Lithology	, Dansinka	
40 : 22/8]	Description CLAYEY SAND, SAME	Corehole: ORG - 393 Cty., State: ORMGEBURG, SC Date: 4/23/97 Geologist: D. PROWELL
	AS ABOVE ZUNC	Geologist: D. PROWELL
	SANDY, SILTY CLAY	F-VF, SUB-
	ANGULAR, WELL SO	
	SAND AND SILT IN	
RL 375	MATRIX , 1-2 % MIC	
42: 3	OPAQUE HEAVIES, PY	,
	LIGNITE /CARBON; TH	1
	BEDS LOCALLY UN:	DULATING; LOCAL - 5
H3. Y	THIN BEDS, OF F-	C ZOUTE OF - S
PALEO M	ORANGE + WHITE ST	TAINING WHERE
P Directolle	CARBON IS LEACHED	
44:	STAINS ! DARK YELLO	WISH ORANGE (104R6/C)= "
	DARK GRAY (N-3)	WISH OKNUGE (103K6/C) >
	NO RECOVERY	
Rung +		
	SANDY, SILTY CLAY	SAME AS ABOVE :
46:	2.0	
	0 0	4
		ZIN ZIN
: 8 =====	K -	- 1 - 1 - SOR
	h	IZE:
	> = = =	· · · · · · · · · · · · · · · · · · ·
48:	7.3	
(184-)	DARK	THIOLOGY: GRAIN SIZE: SORTING:
48. EO 15	Â	070
PALE	DARK GRAY (N3)	
Divo Sollar	CLAYEY SAND, SEE NE	ANGE (104RG/C)
- Quy q	CLAYEY SAND, SEE NE	XI PAGE
5 () -127-4-1-1-1-1-1		

Ft 50	Run :	# Lithology		Corehole: ORG - 393 Cty., State: ORANGEBURG, SC	
	OVERY EN		CLAYEY SAND, F-C, SUB-ANGULAR TO SU MODERATELY SORTE 10-25% CLAY MATRI BEDDED WITH SUGGE	Date: 4/23/97 Geologist: D. PROWELL B-ROUNDED, D QTZ. SAND; X; WEAKLY STIDN OF X-BEDS;	
52	3,3 FT REC		1-2% MICA, 1% OPI LOCAL BLEBS OF CAN LOCAL VERY THIN FLI STRINGERS;	RBON /MANGANESE:-	STRUCTURE: COLOR
54			DARK YELLOWISH ORANGE (10786/6)	: MINERALOGY : FOSSILS :
<i>5</i> 6-	RUNIO-		CLAYEY SAND, SAME AS AL	80V€ :	INDURATION: MI
3	FT RECOVERY	Sion Swy	DARK YEZLOWISH ORANGE (10) SILICIFIED SAND; F-M SAN WITH SIOZ CEMENT, MAN NODULES, NO COZ: CLAMEY SAND; VF-F, AND SORTED QTZ SAND; SEE	YRG/G) ND CLASTS/LAYERS NGANESE/IRON CONTACT? GULAR, WELL E NEXTPAGE	LITHOLOGY : GRAIN SIZE : SORTING : IND
58	3,0		NO RECOVERY	-	LITHOLOGY : GR
6 Ú T					

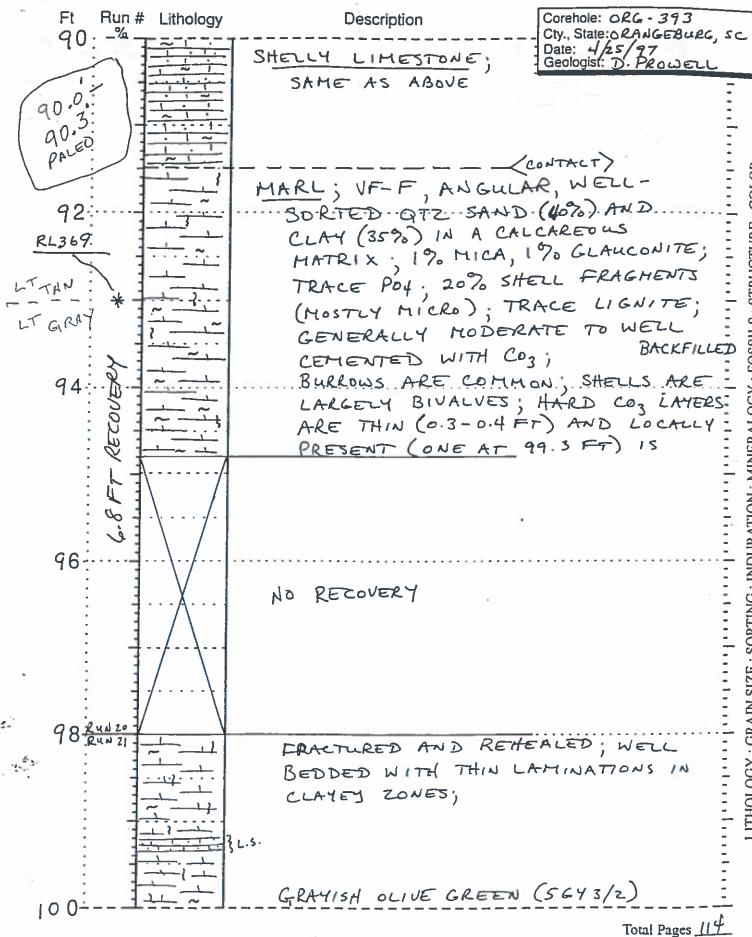
Total Pages 14

met . It.

	D		_	, 61
Ft (∺ HUN #	# Lithology	Description	Corehole: ORG - 393
61) : Runiz		CLAYESAND VF-F,	Cty., State: ORANGE BURG, SC Date: 4/23/97
	•		_ /	Geologist: D. PROWELL
2.			MAGACIAL, WELL SOICI	CD 412. SAND, =
	: -		1% MICA, TRACE VF-	
	•		5-15% CLAY MATE	TX CEUDELY
	: >.		BEDDED WITH SUGE	THA CARBON.
	: 2		LOCALLY CONTAINS	
62	2		LOCALLY CALCAREOU	S BED3 (21 cm); - 0
	: 2	. ===:	WITH POSSIBLE MICRO	
	: &		FROM 65-66 FT.;	SION REPLACED : 3
	<u> </u>		SHELL FRAGMENTS	AT GG FT.:
			SHALL GRANULAR F	OF OR CLAUCONITE &
	7 -		FROM 65 - 66 FT;	LARGELY STRINED TO
	7		FROM ORANGE IRON	
_64				
1			DARK YELLOWISH DRANGE	(10 YR 6/6) = 0
[65.70]	: 3			EAI.
A	RUNIZ		NO RECOVERY	
PALED	RUN 13		MARL; VF-F, ANGULAR	WELL-SORTED PIZ Z
\PH	, , , , , , , , , , , , , , , , , , ,		CO3 1-2% GLAUCONITE AND	POLICE COS MATRIX
	: [ITES II	SILICIFIED SHELLS;	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
66	% 1		<5:02.5#€~~	
-	***	= = ==	- PALE OLIVE (1046/2)	
RL 374	. 8	1~1	LIMESTONE : IMPURE,	WITH 5-107. PTZ - DN
	RUN 13-	1	SAND, 5-10% SHELL F	RAGMENTS, 5% : IL
	RUN 14-		CLAY, POORLY TO MO	
	: []	17-1-	SORTED; WEAKLY INI	DURATED EXCEPT: BEDS OF - IS DLUSK(?) SHELLS: DIAMETER; S SUCCEST - OPAque - OPAque
.90	: 8 3	1.1.1.	FOR LOCAL 0.5 FT	3 5 1 G 1 G
168			PURER CO3; SPARE MO	occuse (s) streets: A
(25) ()		1	EXTEND ACROSS CORE	DIAMETER
165.4			TRON OXIDATION SPOT	5 34.5.5
Pr. ED			WEATHERING OF VF	- OTAQUE
PP	0.7	1: [=]:	HEAVIES ;	
	: "']	7~		<u>-</u>
	: :			, i
70-	RUN 14+	1:1:	YELLOWISH GRAY (577/2	2

		0 07
Ft Run # Lithology	Description	Corehole: ORG - 393
70 Run 15	T 111000	Cty., State: olange Bulg, sc Date: 4/23/97
	LIMESTONE ; IMPURE	Date: 4/23/97 Geologist: D. PRO WELL
	SHEZLY + SANDY; SE	E PREVIOUS PACE -
1 1 7 1 7		
1-7-		<u> </u>
		<u>:</u>
		- I
RL373		COLOR
72: 5	***************************************	- 6
8 11 11	_	יי אור
		-1-2
(73. 1:)		
1 2 4:1		
PALEO		E ST
7 = 1		1-1-2
7.	YELLOWISH GRAY (547/	(a) E (f. 1
74:	18.05.000) 3th GRN 1 (3.7.1/	
		IRA :
RUNIS	NO RECOVERY	= = =
RUNIL		INDURATION: MINERALOGY: FOSSILS: STRUCTURE
	20.40	- Z
	HARD SANDY LIMESTONE BROKE CLASTS; SPARSE VC- QTZ. GRAIN	S, MOLLUSK AND
76	BRYDZOAN FRAGMENTS, SIOZ SANI	GNTACT (UNC?)
′ ′ ∶ †	MARL : VF- F SAND AN	D SILT IN
RL372 *	1. ————————————————————————————————————	
	70-90% CALCAREOUS	
LT TAN	1-2% MICA, TRACE	GLAUCONITE) = 0
R	3 SPARSE PHOSPHATE	
LT GRAY	FRAGMENTS, WELL-	
2	1	· — s sans
78	LOCALLY MORE OR UPPER 2.0 FT 15 L	CESS SHOD: - 3
118.11 11*	PALE GREEN COLOR	- ÿ ; bo
1 44 / ===		10
PALED		TTHOLOGY
bus,		- × i
- RL371		-
GRAY COUNTY	GREENISH GRAY (56 6/1)	Ξ
		-
American Control of the Control of t		Total Pages <u>44</u>

C. D	*	9 ot
Ft Run # Lithology	Description	Corehole: ORG - 393
80 RUNITI		Cty., State: ORANGE BURG, SC
	MARL; SEE PREV. PAGE	Date: 4/24/9 / Geologist: D. PRo いをしし
<u> </u>	- 1 × -	-
	1	
		# E
41.0		:
101.30	= = = =	*
PALED		aoToo
82. 8	YELLOWISH GRAY (547/2)	<u>:</u> 8
	LIMESTONE CLASTS FROM BELOW	WITH MARL E
RL370 : N DDDD	ALOUND EDGE	(CONTACT : D
	SHELLY LIMESTONE; PA	_ ()
	SECONDARY CALCIUM C	
	5-10% F-C QTZ. SANI	5 20-30% 3/1000 : 5/1
: 5 1	FRAGMENTS; POORLY	SORTED; LOCAL: STISSO
84	CO3 CEMENTED BEDS	(0.3 - 0.5 FT) = "
84:	OTHERWISE SEDIMENT	- 15 RROKEN : 0
_ 70 1/4 1	INTO CDARSE GRANUU	ES. SHELLS
RUN17	NO RECOVERY	TIS BROKEN SONES, SHELLS SHELLS
RUNIE	ARE MOLLUSKS, PEZEC UNIDENTIFIED MICROFE	
RECOURTY LUNIS		SSILS; HRAGHENTED: S
PUN19 - 1 - 1 -	TEXTURE;	TA ITA
		- ≅
26 1 1		트
86		SSILS FRAGMENTED NOINUNION
RECOVET	NO RECOVERY	
RECOVET	NO RECOVERY	
	NO RECOVERY	
a4F7 RECOVET	NO RECOVERY	
a4FT RECOVET	NO RECOVERY	
a4F7 RECOVET		
a4FT RECOVET	NO RECOVERY SHELLY LIMESTONE (SAME	
a4FT RECOVET		
a4FT RECOVET		
a4FT RECOVET		RAIN SIZE: SORTING:
a4FT RECOVET	SHELLY LIMESTONE (SAME	LITIIOLOGY: GRAIN SIZE: SORTING:
a4FT RECOVET	SHELLY LIMESTONE (SAME	LITIIOLOGY: GRAIN SIZE: SORTING:
PIUDS 88	SHELLY LIMESTONE (SAME YELLOWISH GRAY (548/1) TO	LITIIOLOGY: GRAIN SIZE: SORTING:
PIUDS 88	SHELLY LIMESTONE (SAME	LITIIOLOGY: GRAIN SIZE: SORTING:



-	_=			01
Ft 100	Run # % _	Lithology	Description Corehole: ORG - 393 Cty., State; ORAGES URG	SC
			MARL , SAME AS ABOVE Date: 4/25/97 Geologist: D. PROWELL	
			7	-
	\ -			=
(10/01	\ \ :	1_1_		:
101.01 100131	18	\ ```'/		LOR
102	RECOVE	-\/-		:: CC
	REI	.\./		FOSSILS : STRUCTURE : COLOR
	FT		NO RECOVERY	RUC
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
:	3.4	/\		STISS
104				
104:				YD0
<u>1</u>	4 N 21 -	<u></u>	MARL, SAME AS ABOVE	RAL
<u> </u>	4 4			
	8 1			NDURATION: MINERALOGY
	2005/27	\ /	* * * * * * * * * * * * * * * * * * *	
106-	REI		\	
•	4		GRAYISH OLIVE GREEN (5GY3/2)	_
	9.0	\wedge		RTIN
	1	/ \	NO RECOVERY	<u>-</u>
:	4	/		ISIS I
108 2	U# 22	/		LITHOLOGY : GRAIN SIZE : SORTING :
,	. 1	~	MARL: SAME AS ABOVE WITH	X
	RECOVERY		LOCAL THIN CO3 CEMENTED BEDS	507
=	J. Gr	3		
:	上		GRAYISH GREEN (10645/2)	- 'l' -
•	1.3	\times		- -
110-	<u> </u>		Table 114	<u> </u>
			Total Pages <u>1/4</u>	

				. 3 81	•
Ft Ft		Lithology	Description	Corehole: ORG-393	
120	: -% ⊣			Cty., State: ORANGEBURG, Date: 4/26/97 Geologist: D. PROWELL	دد
		-1-7	MARL; SAME AS	Geologist: D. Prower	
W	:	~	ABOUE SPARSE	BONE FRAGMENTS	-
		~~	ABOUE, SPARSE AND SMALL SHA	RK TEETH	-
22 8)	: 3		PRESENT; TRACE	LIGNITE AND	-
	: 1		KBONE PO4 GRAINS.		<u> </u>
	:]	~	104 62/1/23.		COLOR
122		1	SHARK TOOTH		
, 2 4		<u> </u>			RE:
-	: ‡				I I
-		1,			P
	ノ \				FOSSILS: STRUCTURE:
(123-0	: / 3	~			LS
123.3	ノ :		CSHARK TOOTH		SSI
124	2				. FC
124:	6				
	RECOVER	<u> </u>			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
•	\$ ‡				'' '''' '''' '''' '''
	1	~			- X
:	4				: - z
	\ \ 1				- I - TIO
	0:	~			IRA:
126-		1			- 1 <u>0</u>
. :	3.				
:	1-	~			SORTING
iii .					 OR1
•	7-	조 그			
•	1		GRAYISH OLIVE GREE	N (5643/2)	SIZE
E., 0	3		NO RECOVERY		- Z
128-	244 25	\leftarrow			GRAIN SIZE
1					
6. 15%	^ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				LITHOLOGY
126,	11				TOI
128.6:	。				- E
128.5	11		200		1
<u> </u>	一 ‡	~			-
130-	<u></u>		LLL_eu_A_Htt_dedLel		
100-	w			Total Pages 116	4
				10ta; 1 ages <u>- 1 1</u>	

Ft 140	Run #	Lithology	Description	Corehole: ORG - 393 Cty., State: ORANGEBURG, SC Date: 4/26/97 Geologist: D. PROWELL
110		++++	MARL; SEE PREV. PAGE	Date: 4/26/97 Geologist: D. PROWELL
- "			CSHARK TOOTH	
142		11111		OCTURE: CC
PALEO, 143.6	OVERY			INDURATION: MINERALOGY: FOSSILS: STRUCTURE: COLOR
144				ALOGY: F0
	10.01			ON: MINER
146		1-	IN INCREASE IN	F-VC POY
	. 1		∀	SORTING
148	Lun 27-		が3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	I
148.5 148.6 PAL		P ~ P		LITHOLOGY: GRAIN SIZE: SORTING
		~?-		
<i>15</i> 0÷				Total Pages 114

		•
Ft Run # Lithology	Description	Corehole: ORG - 393
150: -4-1,		Cty., State: PRANCEBURG, SC Date: 4/24/97 Geologist: D. PROWELL
~	MARL; VF-F	Geologist: D. PROWEY
	WELL-SORTED Q	TZ: SAND (202) =
· · · · · · · · · · · · · · · · · · ·	WELL SOIL ED 4	al CAI CIUM
· · · · · · · · · · · · · · · · · · ·	AND CLAY (50%)	A A SUBART
* 1	CABONATE MATRIX	· ABUN DANI
	HICRO FOSCII C AND	MEGALDSSIC .
	FRAGMENTS; 1-2°	> F-VC ROUNDED -
	Parallenis, 1	- PA 1 18
152	PD4, 170 GLAUCO	
	ESPECIALLY ABU	_
	146 TO 153; SP	ARSE BURROWS: =
PALEO	153 TO 158 LAR	GE BRANN
	155 TO 158 LAN	.ge
153,5	BIVALVE SHELL	S ARE COMMON :
1537	CALCIFIED TUB	ES ARE ALSO
(15)		
154	COMMON:	exp. sec and a contract of the
/54: 2:]		
: Q : 1		- (
		a: = -
		<u> </u>
2		_ :
· 6 - = ~		
<u></u>		·
P		=
156		· · · · · · · · · · · · · · · · · · ·
		<u> </u>
		<u> </u>
PALFO		-
(· = 5
1,61011		- ·
157.7	CREENISH GRAY (560	. //) = 1
13/	CREENISH GRAT (5 G	= ;
158 Run 28	NO REZOVERY	
130 Run 29 - 1	MARL; SAME AS ABO	VE WITH
	TIRRE, SAILE KS KO	PDI GRAINS = ?
: 7	INCREASE IN F-VC	- 4
	TO 3-4%: 1-2	% CLAUCONIE,
	MARL; SAME AS ABO INCREASE IN F-VC TO 3-4%; 1-2 AND COMMON LARG	E BROWN BIVALUET E
	TAND CONTINUE STATE	PATELY CEMENTED
1 1 1	FRAGMENTS , MODE	-
: : : : : : : : : : : : : : : : : : : :	WITH CO3:	
160		
• 🕶 -		Total Pages 114

2	1 (6)	
Ft Run # Lithology	Description Corehole: OLG-393	
160: -	MARL . PHOSPHATIC Geologist: D. PROWELL	
PALED	ALLE AS ABOUT BUT WITH 30-	-
161.0	40% PO4 AND GLAUCONITE.	
161,3 P		
162		100
	OLIVE GRAY (543/2)	FOSSILS : STRUCTURE : COLOR
2	3(1.1. (3.3/2)	UCT
		STR
	* 가 다구나다는 트레이 마음을 된 날리다고	ILS:
RECOVER !		SSO
164:		
[]		\LOC
7, 3	A TURNOL III SA	ZEP.
: ₹	NO RECOVERY	- \(\bar{\bar{\bar{\bar{\bar{\bar{\bar{
<u> </u>	, = -	NOI
		INDURATION: MINERALOGY
166:		
		NG:
		ORTI
· · · · · · · · · · · · · · · · · · ·		S
	The state of the s	N SIZ
168 Run 29		GRAIN SIZE
PANSO PANSO	MARL. PHOSPHATIC. SAME AS ABOVE,	
	BUT WITH 50-60% F-VC PO4 AND GLAUCONITE; COMMON MICRO-	507
2L 368, H9701 * P	FOSSILS AND MEGA FOSSIL FRAGMENTS;	LITHOLOGY
- / = ====	CEMENT;	يا ا
170	GRAMISH OLIVE GREEN (5GY 3/2)	_
	Total Pages 114	_

- (*)

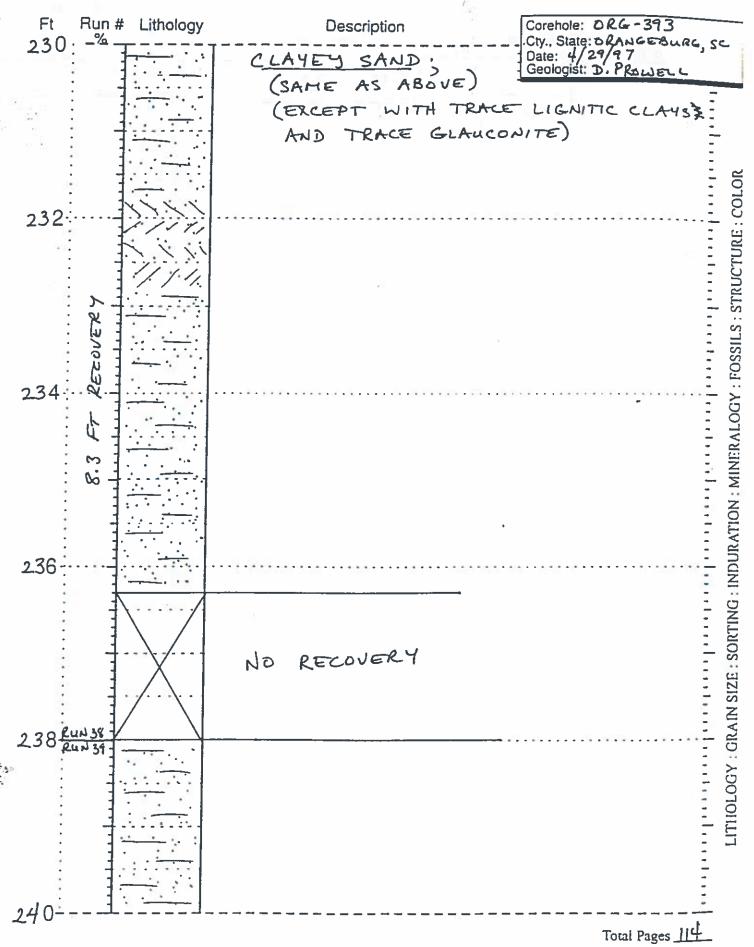
Ch. Due # 1	that a	Day 1. F	Coschelar a C.C. 252
Ft Run# L	itnology	Description	Corehole: ORG - 373 Cty., State: ORANGEBULG, SC
P.		MARL. PHOSPHATIC	Cty., State: ORANGEBULG, SC Date: 4/26/97 Geologist: D. PROWELL
三 で、 三 玉		(SEE PREV. PAGE)	
8 =		(LOCALLY 60-70% POX	KND GCAUCONITE)
1000		· S	
11000 1	C	RAYISH OLIVE GREEN	(5GY 3/2)
I PALL IN	<u>-</u>		:
172			
: 6 ==	P		
<i>y</i> =		RAYISH OLIVE GREEN (5	<u>GY 3/</u> 2)
	\times	NO RECOVERY	
RUN 301		211 2011 - 211	(SEE PREV. PAGE)
		MARL ; PHOSPHATIC	De AND
		(LOCALLY 50-60%	POH KAI
H9703 174: *	P	GLAUCONITE - F-	VC); SHELL
		FRAGMENTS COMM	ON , MANY
: > =		ROUNDED; TRACE	AG- KOUNDED
73		QTZ · (PROBABLE L	AG BED)
. 0			:
REC	— Р). <u>=</u>
			<i>:</i>
176	- D		
0			Ξ
: AA		•	
UO ZOO P			1
H970Z - 17-			
Tre		ullowed CONTACT	
176	H# 5	SANDY CLAY TO MA	RL; F-VC, SUB-
178 RUN31		ANGUCAR, WELL SO	RITED QTZ SAND
		AND SILT IN GO-	70% CLAY :
	= 55 %	MATRIX WELL COM	PACTED WITH :
		A LIGHT (FIZZ) CO2	CEMENT: 1/0 -
		MINA 5-30% GLAU	ICONITE, COMMON -
		VE-CARBONACEOUS	HATTER! WELL =
RL 367 *= :		LAMINATED; WEAT	HERED SPARSE :
1801	 1		
			Total Pages 114_

		1	(, 0 ,
Ft Run :	# Lithology	Description	Corehole: OR 6-393 Cty., State: ORANGEBURG, SC
1.0		SHELL FRAGMENTS,	Date: 4/27/97 Geologist: D. PROWELL
]	SHARK TOOTH; BURROW	ED WPOFF CONTEST
= 3 224		WITH GLANCONITIC +	
140.00	1	Burlows.	THE BREIT PERIOD
1 2 3:		Bakerms.	
180.3 PALEO			
			FO.
] ::=:===		FOSSILS: STRUCTURE: COLOR
182:	1 ∃:∃⊒		
H9707 :	1		: 2
			-
<u> </u>			32
PALED ;) *-			rr S
183,475			: · · · · · · · · · · · · · · · · · · ·
/ / / W/] _:::::		I I
183,6 : 5	1		- SO.
184: . N			
104.10		20.50.50.50.50.50	
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: Có			- Z
			·
	=::::::::::::::::::::::::::::::::::::::		IRA -
49706 186 *-			INDURATION: MINERALOGY
		is Tolling	= = =
: -		OLIVE GRAY (543/2)	- 9
	1.\/		ios
		NO RECOVERY	
: 3		NO RECO	1218
	1/ \		: Z
19705 188 RUN32			
*100 Euns		CLAYEY SAND; F-VC, R SORTED QTZ SAND AN	D SPARSE F- QTZ. XDOJOILLY 70 MICA, TRACE
	· c ·	SORTED QTZ SAND ANT	D SPARSÉ F- QTZ : }
		GRAVEL (3-4 mm); 20-30 5-10% GLAUCONITE, 1 BLUE QTZ., CARBONACE	& CLAY MATRIX; = 9
: :	' °	\$ 5-10% GLAUCONITE, 1	90 MICA, TRACE : 9
	6	& BLUE QTZ., CARBONACE	POUS, NO FOSSILS, - H
H9701 *	· · · · · ·	MASSIVE TEXTURE; OL	INE GRAY (543/2) .: "
		TREGULAR SURFACE	
<u>RL366</u> *		SILTY CLAY (SEE NEX	<u>-</u>
190	1 -2 -1		
			Total Pages 114

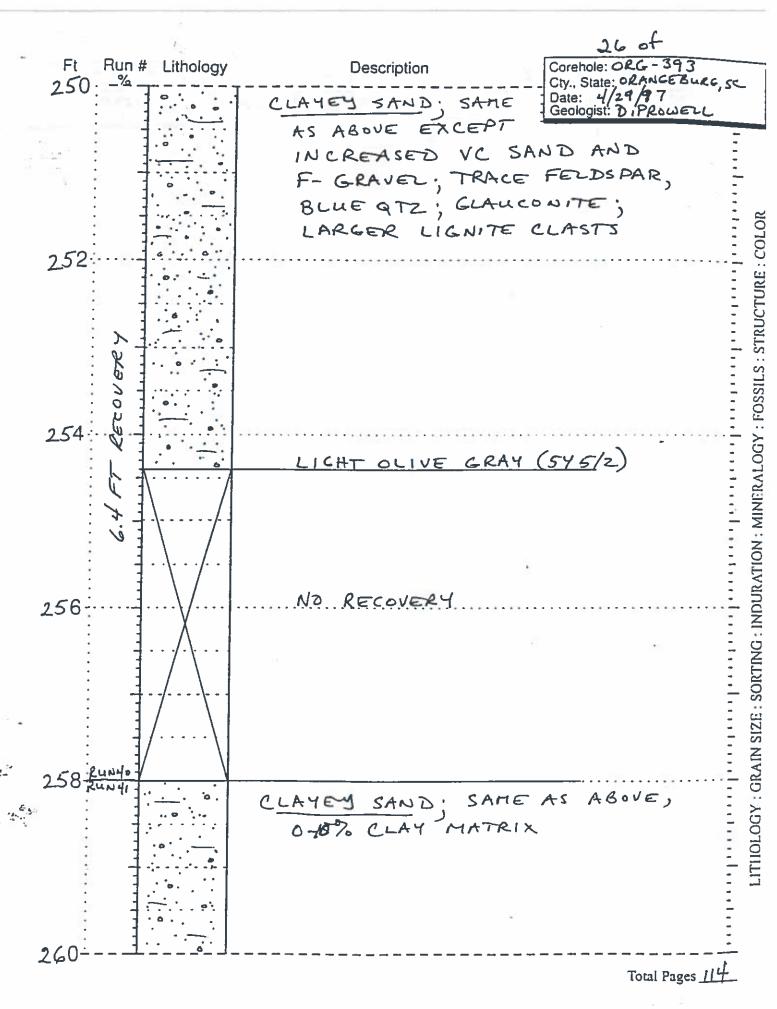
Ft 200	Run #	Lithology	Description	Corehole: ORG-393 Cty., State: ORANGEBURG. SC
			CLAYEY SAND; (SAME AS ABOVE)	Cty., State: DRANGEBURG, SC Date: 4/28/97 Geologist: D. PROWELL
202				:: COLOR
204	FT RECOVERY		OLIVE GRAY (543/2)	Y: FOSSILS: STRUCTURE:
2.20	ە ئى		NO RECOVERY	INDURATION: MINERALOGY
206-				SIZE: SORTING:
208 g	40 F RECOVERYER		CLAYEY SAND, F-VC POORLY SORTED Q' CRAVEL (UP TO 20 M MATRIX, 170 MICA PRUTILATED RTZ. BLUE QTZ.A, MONAZ MODERATELY COMPA THINLY LAMINATED	TZ SAND AND : 00 S 570 CLAY : 00 TRACE GARNET, - EI ITE; LOOSE TO HCT; X-BEDS;

	Lithology	Description	Corehole: DRG-393
210: -%-		AND F-SAND BEDS AT	Date: 4/28/97 Geologist: D. Prower
BEOVER	·	THIN CLAYEY BEDS A	
PALED & -		(TRACE OF WEATHERED	GLAUCONITE?) -
21.5	*	CTRACE OF LIGNITE Y	CARBONACEOUS : = =
2111:		L364LAY)	COLOR
212 Runge			
			FOSSILS: STRUCTURE
<u>:</u>			- 1 · · · · STR
			SSILS
	-		: FOS
214:	: : ; :		ADO.
:			ERAI
- - -			
OVER			NOIL
, i			INDURATION: MINERALOGY
2.0			
	===	DARK GREENISH GRAY	45/2) = 5
4.9		CIGHT OCTOR GATE	10s:3
		NO RECOVERY	IZISE
218 RHJ 36			I
ZI U Run 37	980		(56/2) 1
		a a	00701
: 1			LITE
			<u>-</u>
220			
 -			Total Pages 114

			· .		23 85	
Ft Run 220: -%	# Lithology	Des	cription	Carehole:	ORG-393	
220:		CLAYEY	SAND;	Date: 4	: ORANGEBURG, 129/97 : D. PROWELL	26
PST (2.10)		(SAME	AS ABOVE)	- Joseph Land	D. France CC	
44 J. :		i 8	1.5			:
:						- 3
:	1					
222:						100
				***	***********	i i i
323.21						r i r i
323.10	· · · ·	9				TRU
=\ '\ · \						Sis
: &		3 CLAY				i i i
224:					• • • • • • • • • • • • • • • • • • • •	j 1 1 1 7 : FC
RECOVER.						1.1.
						RAI
<u> </u>						- N
- 6						- NO
b				,		· · ·
2.26		• • • • • • • • • • • • • • • • • • • •				NDURATION: MINERALOGY: FOSSILS: STRUCTURE: COLOR
	<u> </u>				:	-
						J. I.
-		l =si		1		SOR
260		1- 0-		100		 ZE :
		NO RECO	OVERY			S NI
RL 228 RUN 37 - 363 **	*******)	<u></u>			LITIIOLOGY: GRAIN SIZE: SORTING:
363	-/	/				Γ. τ. σ GY :
(220 a)	······································	THINLY BE	DDEB CLAY	4 SAND		070
\ ' ~ '\.' \ \ \		1				ПШП П
PALED)			•	-
	/	,				-
230					Total Pages 114	.
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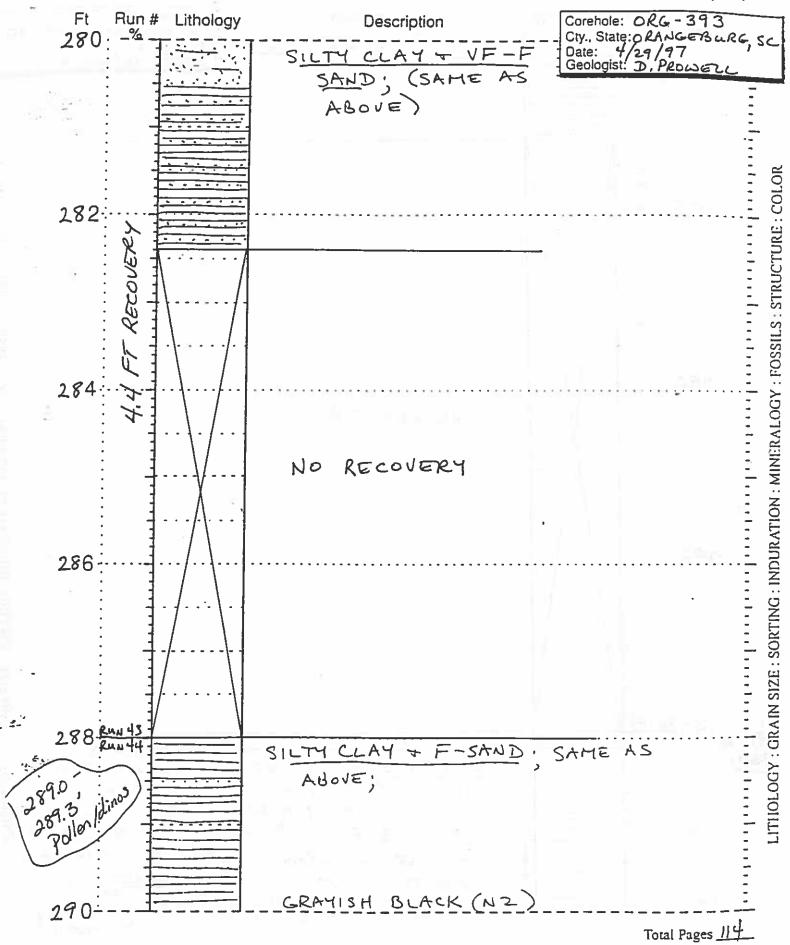


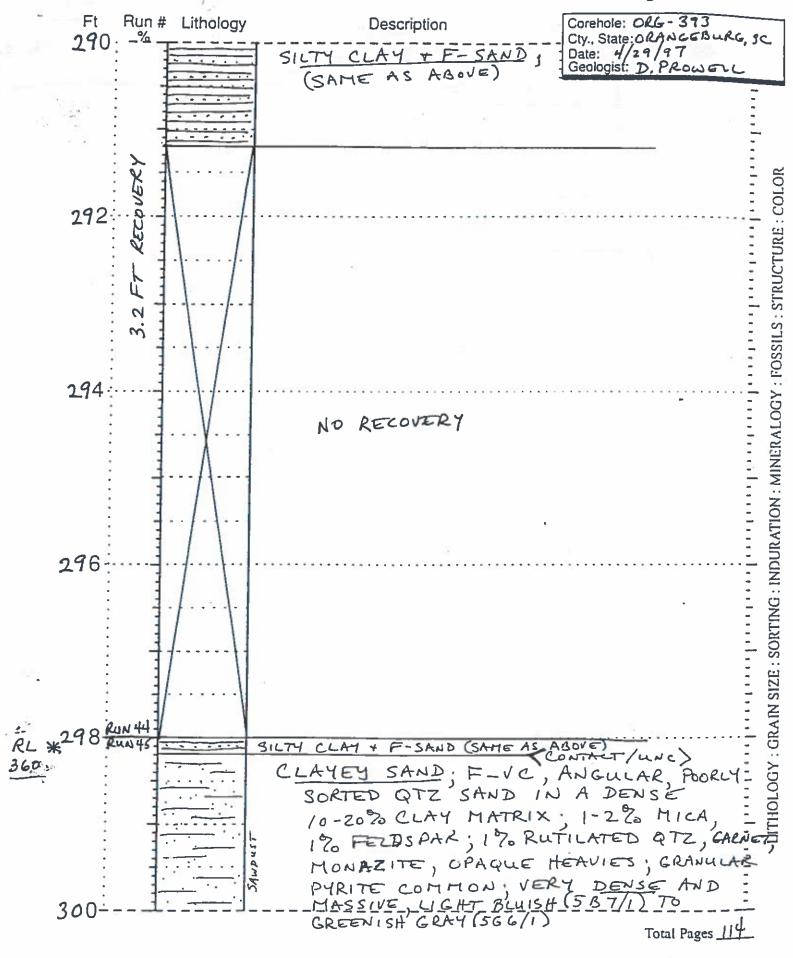
	1.				U U	
Ft 240:	# Run _ %	Lithology	Description	Corehole: Cty., State,	ORG-393 :DRANGEBURG,S 29/97	
	211	Witte	CLAYEY SAND , (SAME	Date: 4/ Geologist:	29/97 D. PROWERL	
	12 		AS ABOVE) (EXCEPT WITH INCREASED	LIGNITE	=/CARBONACE	- 0 U.S
	-		CLAY AND TRACE U	LNWEAT	HERED	-
	-		GLAUCONITE).			- - ~
	3		L -v ± ,			070
242			2.2.12.12.13.14.14.14.14.14.14.14.14.14.14.14.14.14.	****		 SE: C
:	8					FOSSILS : STRUCTURE : COLOR
						TRU
	-	· · · · · · · · · · · · · · · · · · ·			9	S: S7
•	5K4		,			ISSO
244						
•	RECOV		I =			007\
•	¥ 7					NER/
	6		LIGHT OLIVE GRAY (545/2)		- ₩ : ::
•	7.2	\ _? /			**	TION
246-		.\/.			=3.4	INDURATION: MINERALOGY
210	1					Z Z
•	1	· · · \\ · · ·	NO RECOVERY			TING
	1	/-\				SOR
•	= = =					IZE :
		/ \				A IN S
248 R	My 40 -		CLAYEY SAND , (SAME A	S ABOVE	=)	LITIIOLOGY : GRAIN SIZE : SORTING
<i>2</i> 1	4					ΛDO
•	1					1011
:	1		it.			LIJ
•	1		I cm claver			- •
250-	1.					
					Total Pages 114	_

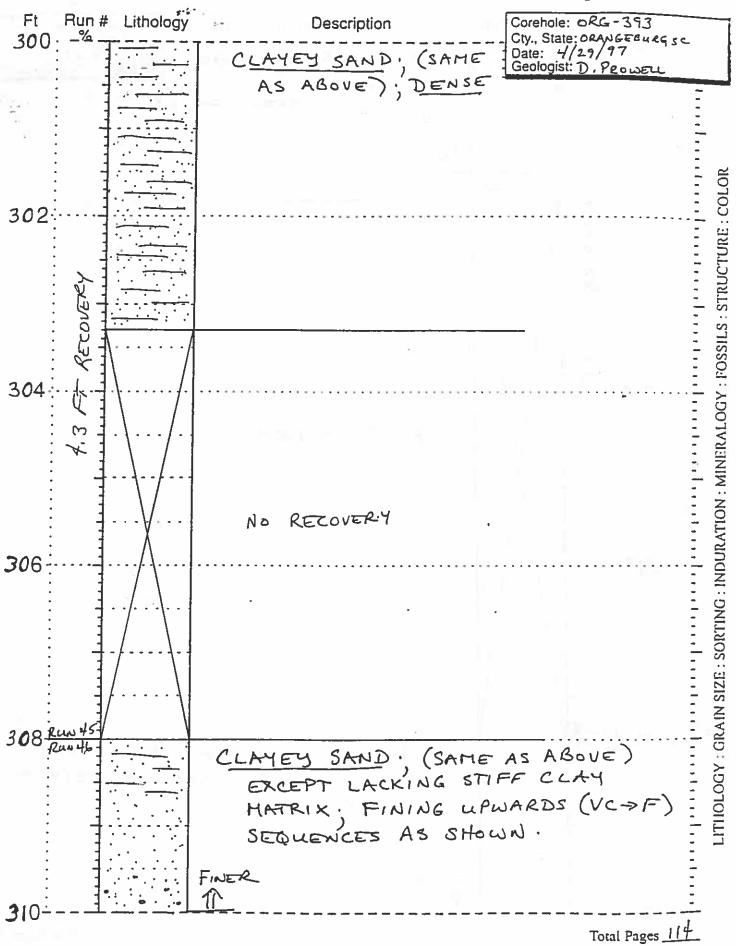


			210+
Ft 240	Run # Litholo	gy Description	Corehole: ORG-393 Cty., State: ORANGE BURG, SC
760	•	: CLAYEY SAND; SAME	Cty., State: ORANGE BURG, SC. Date: 4/27/97 Geologist: D. Plowerl
		AS ABOVE	
262:	,	LIGHT OLIVE GRAY (545/2)
262.2' 262.2' PALES	Sovery		FOSSILS: STRUCTURE: COLOR
264:	Ser Ser		- 0 - 0 - 0
201.			ADOTA
	4.2	NO RECOVERY	ILLERA
	1	-	INDURATION: MINERALOGY
266-			±
	1 / · · · · · · · · · · · · · · · · · ·		N SIZE : SORTING
268£	W 41	CLAYEY SAND SAME F-VC, ANGULAR, PO SAND AND F-GRAVE CLAY MATRIX	AS ABOVE; ONCE OF ONCE
			Total Pages 114

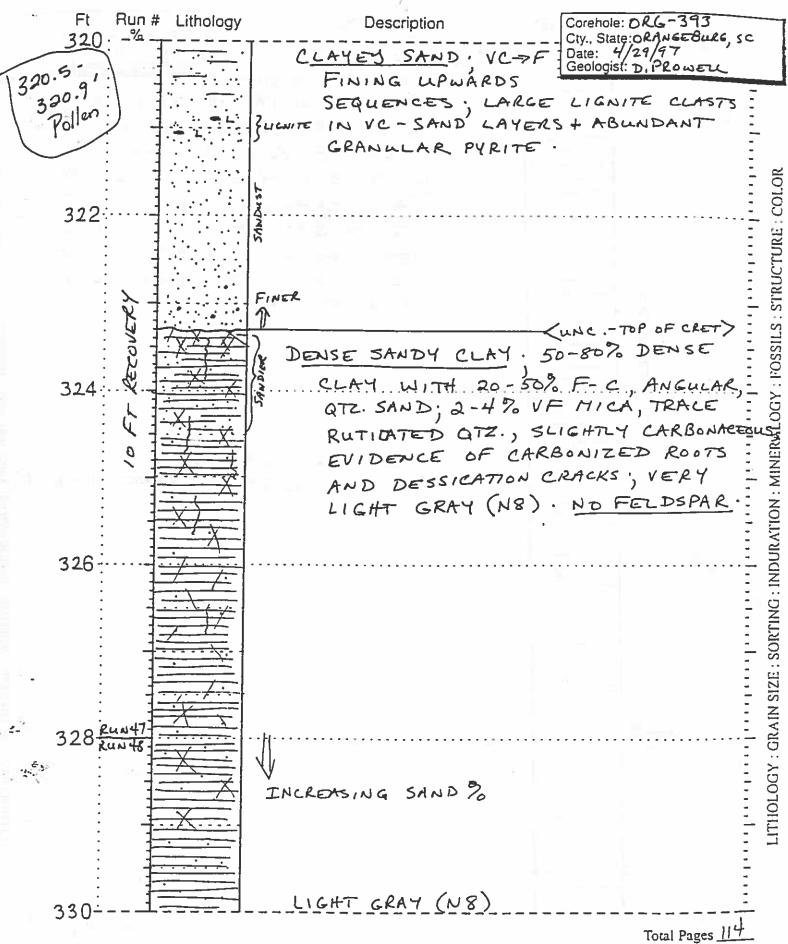
	28 07
Ft Run # Lithology	Description Corehole: ORG - 393
270:	CLAYEY SAND; SAME Date: 4/29/97 Geologist: D.PROWELL
	AS ABOVE Geologist: D.PROWELL
1	73 7246
1:	-
272	
212:	2 NO COARSE BED
RL 362 *	SILTY CLAY + VF SAND WAXY VERY
	SILTY CLAY + VF SAND WAXY VERY
2	CARBONACEOUS CLAY WITH 10% SILT, -
RL36/ *	1-2% VF MICA, LIGNITE COMMON, LOCAL
	INTERBEDS (- THE SORTED QTZ. STAND;
274	570 MICH; LOW ANGLE X-BEDS LOCALLY
	LOCAL PYRITIZED ROOTS/TUBES: GRAYISH -
1 1	BLACK (N2)-
± 1/	LIGHT OLIVE GRAY (545/2) LIGHT OLIVE GRAY (CONTRET SILTY CLAY + VF SAND, WAXY VERY CARBONACEOUS CLAY WITH 1070 SILT, - 1-270 VF MICA, LIGNITE COMMON; LOCAL INTERBEDS (1-4 mm THICK) OF F-VF INTERBEDS (1-4 mm THICK) OF F-VF SUB-ROWNDED, WELL-SORTED QTZ. SAND; SUB-ROWNDED, WELL-SORTED QTZ. SAND; SOME HOLD ANGLE X-BEDS LOCALLY COATED WITH FINE LIGNITE; WELL LAHINATED; LOCAL PYRITIZED ROOTS/TUBES; GRAYISH BLACK (N2)-
	1
276:	NO RECOVERY
: 1 /	
1 //	
1 /	<u> </u>
. ! ! / \	
:	1 2
= 10 0 11 11	
278 RUN43	SILTY CLAY + VF SAND; (SAME AS ABOVE EXCEPT FOR F-VC, SUB- ANGULAR, POORLY SORTED QTZ SAND: BED FROM 280-280.5 FT., VERY
100	ABOVE EXCEPT FOR F-VC, SUB-
278.3 278.3 Poller	ANGULAR, POORLY SORTED ATZ SAND:
Poller)	BED FROM 280- 280.5 FT. VERY
	LICNITIC WITH THAT OF
	SAND CLASTS
200:	
280	Total Pages 11







				5 2 61	
Ft		Lithology	Description	Corehole: ORG-313 Civ., State: ORANGEBURG, SC	
310			CLAYEY SAND; (SAME	Date: 4/29/97 Geologist: D, PROWELL	
			AC ABOUT FINIS		
1			LIPHARDS SEGUENCES	(VC→F)	
	-			Ξ.	
			FINER		
	-		<u> </u>	-	ŏ
•	> 3				Ó
312		\····/			. :
•	RECOVERY	\ /			UR.
:	B 3	\/			JCT
:	E V			-	TRI
•					: INDURATION : MINERALOGY : FOSSILS : STRUCTURE : COLOR
				2	SIL
6	3.8	\ /		3	FOS
314			EE-283	.x <u>-</u>	-:- -:-
•	=	_ \		=	00.
•		\-/	NO RECOVERY	-	RA I
•		V 1		<u>:</u>	ING
1	+	/		<u>-</u>	Σ
:	=	/\		•	NO.
•	3	/.//	•	Ī	:ATI
316		/			DUR
510	4			•	Z
	4	. /	•	=	
•	- 1	/ \		=	FI
:	- 1	/		-	20
•	- 4	/ \		-	ZE:
•	4/	·····			SZ
318	u 444	\ 		:	ZA.
3187	u#47-		CLAYEY SAND , (SAME FINING UPWARDS SET	AS ABOVE)	5
:	4		FINING UPWARDS SET	QUENCES (VC-7F)	ζJ
•	1	200	1 frames and a	•	OTC
÷	4			-	LITIIOLOGY : GRAIN SIZE : SORTING
•	- 1			:	口
•	- 1		FINER	= :	
:	4		TIMER	:	
320-		<u></u>		1	
				Total Pages 114	

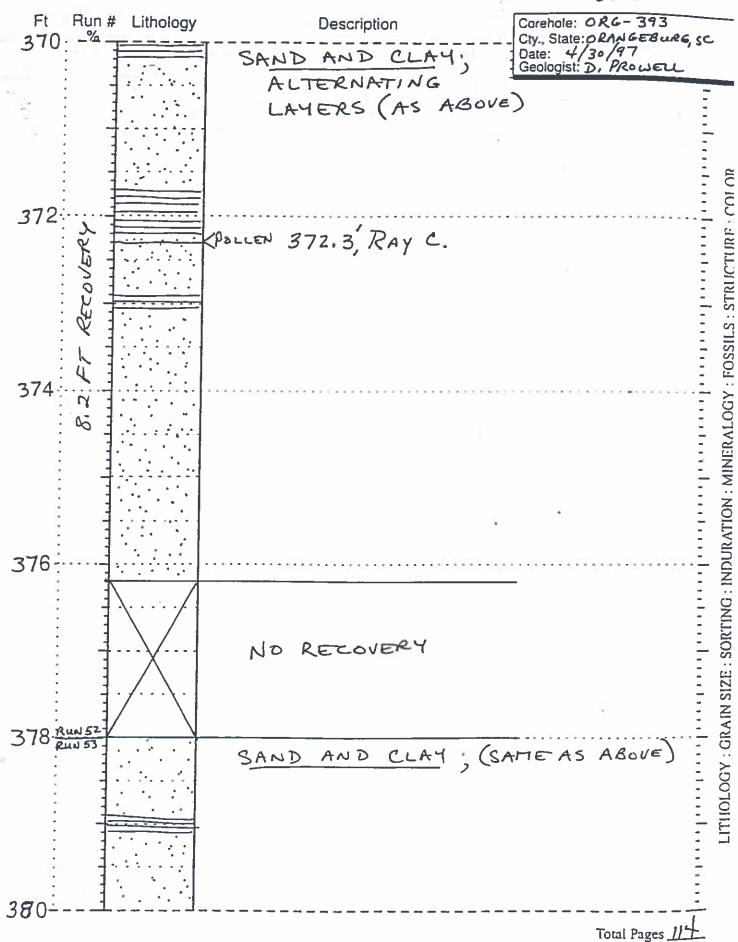


Ft 330		Lithology	Description	Corehole: ORG - 393 City., State: ORA NGEBURG, SC
			CLAYEY SAND; SAME AS ABOU	Date: 4/29/97 Geologist: D.C. PROWELL
			EXCEPT WITH IN STIFF CLA LOCAL F-GRA	AVEL (3 mm);
<i>3</i> 32:			FROM 3 30.5	TO 9.11 FT
	1ERY		1	D; ABUNDANT
334	T RECOI			
: : : :	10/		VERY LIGHT GF STAINING! GRAV	NAY (NB) WINERALOGY WINERALOGY WASH
336 . .				INDURATION
: :: ::	1			- 0
	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			AIN SIZE: S
338	un 48-			LITHOLOGY: GRAIN SIZE: SORTING
				OILLIT
340-	£			Total Pages 11 4

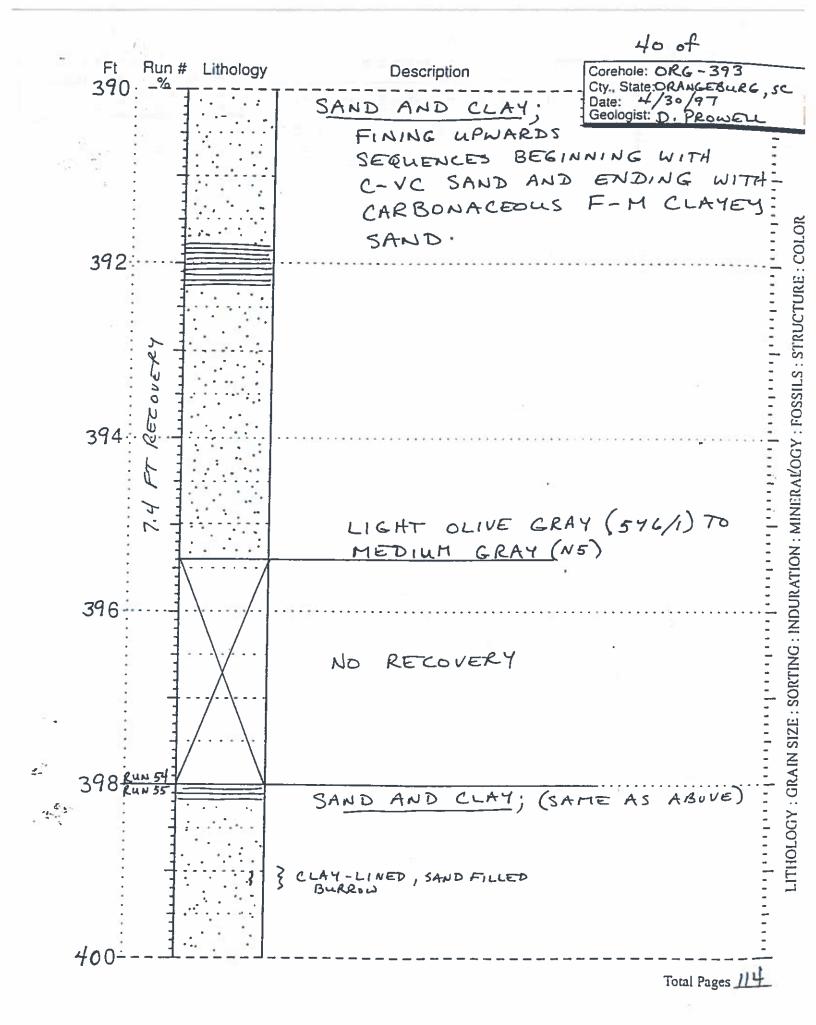
Ft	Run #	Lithology	/ Description	Corehole: ORG-393
340	: - 4 -		CLAYEY SAND, SAME	- Cty., State: OKANGEBURG, SC Date: 4/30/97 Geologist: D. PROWELL
10	-	7	AS ABOVE; VERY	
			COMPACT; 3-5%	MICA.
	ו דו	N	T =	* :
342				
	=	(i) <u>=</u>	· · · · · · · · · · · · · · · · · · ·	
			¥ 1 =	
	: , 1		1X × 577 X,	T
	2			
	5			: FOSSILS
344	EZ	•	B. Aller	
<i></i>		<u> </u>		ADC
•				RALO
•	\		ll l	: <u> </u>
•	6			NDURATION: MINERALOGY
:	4	7.3		
346-			. 22 . 180 . 00.00	- L
340.].			: SI
5* •	= = = = = = = = = = = = = = = = = = = =		*	: DN
•	4:		VORY I AND CRAY	SORTIN
•	*		VERY LIGHT GRAY (- ::
•	4		NO RECOVERY	ZIS
348	Lun 49			
غ ب. ∶	- CS WN.	89C 9	SAND; F-C, SUB-A	ORTED QTZ HOPEN 3-4% MICA, 1001, 2-4% MICA, 1001
•	4.		TO MODERATELY S	ORTED QTZ = 9
•	1		SAND, 0-5% CLAY	MATRIX,
:			POORLY CONSOLIDATE,	PAQUE HEAVIES
•	4	///	LIGNITE; LOW ANGL	E X-BEDS IN
<i>35</i> 0∸	1	<u> </u>	THIN LAYERS; VERY	LIGHT GRAY (N8)
330-				Total Pages 114

Ft		Lithology		 دد
3 <i>5</i> 0		3.000 (2.10	SAND; SAME AS Geologist: D, PRO WELL	, –
		-	ABOVE EXCEPT	-
2.1			LOCAL THIN BEDS INCLUDE.	
5	-		VC SAND FRACTION. THIN	_
	<u> </u>		UNDULATING BEDS SUGGEST	
	:		MARGINAL MARINE CONDITIONS;	-
352			MATRIX CLAYS ARE WHITE,	<u>.</u>
) = _			AND LOOSELY COMPACTED.	•
	: 4	9	PYRITIZED CARBON AND	-
	: :		LAYER DISCOLORATIONS	
	: 、		SUGGEST VERY	_
	· v]		THINLY BEDDED CARBONACEOUS	
	OVER		SANDS WERE ONCE PRESENT;	•
354			VERY MICACEOUS WITH SOME	_
	1 3		GRAINS UP TO 3 MM.	
	7 -		<u> </u>	
			1	
	_ +			-
•	6			
	6		*	•
356-		. 160 ye		_
:				
•	4		<u>-</u>	,
:	1			
:	+		<u>-</u>	-
i	- 1	3.		
:	1		VERY LIGHT GRAY (N8)	
358+	RUNSO		NO RECOVERY	-
2207	24×51-	10.00		
:	1	· · · · · · · · · · · · · · · · · · ·		(
:	- 1		SAND; F-VC, ANGULAR, POORLY	
-	4		SORTED, QTZ. SAND, 0-5% MILKY	٠
:	₫.		CLAY MATRIX, 1-3% QTZ. GRAVEL : (UP TO 5 MM); WHITE CLAY BALLS -	•
:	1	4	(UP TO 5 mm); WHITE CLAY BALLS -	
460:	1		(up to 8 mm); 1-2% MICA, TRACE	
360∸			Total Pages 114	

Ft		# Lithology	Description	Corehole: ORG - 393
360			MONAZITE AND DARK HEAVIES; MASSIVE TEXTURE/BEDDING; YEZLOWISH GRAY (Cty., State: ORANGE BURG, SC Date: 4/30/97 Geologist: D. PLOWELL
<i>3</i> 62:	8.2 FT RECOVERY			FOSSILS : STRUCTURE :
366-			SAND AND CLAY, SAM BUT WITH THIN (O. CLAY LAYERS NO RECOVERY	SORTING: INDURATION: MINIERALOGY
368£	24.11 57 4.11 52		NO RECOVERT	LITHOLOGY: GRAIN SIZE: S
370÷			SAND! LIGHT GRAY (N' CLAYS: MEDIUM DARK G	7)



Ft	Run #	Lithology	Description	Corehole: ORG-393	
380	_%_		Ţ	Oate: 4/30/97 Geologist: D. PROWELL	رد
			SAND AND CLAY;		
	•		ANGULAR, POOL		
			QTZ. SAND; C	1-5% MILKY	.
= =				HATRIX; SPARSE	: : ≅
_ •			GRAVEZ (3 mm)		COLOR
382				= = = :	- .:
•	-		Γ		CTURE
•					
•	27			k-1	- S
•	VET		, 384.0' RAY C.	(04/4) 50.0	SSIL
201	ر ده		LIGHT OLIVE GRA	FY (59 6/1) SAND	OGY : FOSSILS
384:	\mathcal{C}	\	POLLEN GRAYISH BLACK (V.2. 9. C.C.R.7.	λDC
4 4		\\ · · · · · /			RAL
•	T.			II 2	INE
:			- 12 -12 1		- ≥ Z
•	~ 1	\./	1944 196 Yes	,- -	VIIO
386÷		\/	NO RECOVERY	-	JUR,
<i>300</i> . :		Λ	•		Z ::
:		/ . \			. JING
*	1	/			, Sorti
•	1	/ \			ZE : 9
•	=	/\			. IS
388 1	24N 53				- E
	UN 57		SAND AND CLAY, (SA); <u>(</u>
	1		INCREASING % O AND F-CARBONA	CEOUS MATTER.	. 001
•	1		CARBRAIACERUS LA	YERS TOP FINING	ITHOLOGY : GRAIN SIZE : SORTING
•	1	6	LIPWIARDS SEQUEN	ices beginning:	
:	1		WITH C-VC SAN	D A I BASE	•
390÷					-
				Total Pages 114	-



				1
Ft 400		# Lithology	Description Corehole: 6RG-3 Ctv., State: 0RAy6E	93 BURG CA
700			SAND AND CLAY; Date: 4/30/97 Geologist: D. PROL	SEL
900			SAME AS ABOVE,	
			INCREASING CARBON %; 1%	(8)
5	-	-4 . 1	PYRITE REPLACING LIGNITE ,	:
1 1			TRACE RUTILATED QTZ AND	
		- : :	GARNET, THIN (1-4 mm) CARBON.	
402	• • • • • •		CLAY SEAMS ARE INCREASING	· · · · · · · · · · · · · · · · · · ·
			SEQUENCES ARE GETTING	
			THINNER BUT NO BETTER SOR	.TED, I 5
:	<u>-</u>	· · · · · · ·	GOOD EVIDENCE OF LOW-AND	- ~
:			X-BEDS IN LIGNITIC SANDS	
•	7-7	1	LARGE WELL PRESERVED LEAF	:
404		7.0	AT 405 FT.	
,,,;	9			, l
:	ζ€.			RAL
•		X . X .	TITE TOURS NOT DOUG	1
•			CLEXF/POLLEN 405 RAY C.	
3	7.4		•	
	3	/ /		JRA'
406		L	2 Cm. LIGNITE	INDE
:	3	ψ. ψ		. I. 9
•	1	• • •		
:				11.
	1	h /, :/;	MEDIUM LICHT GRAY (N4)	11.1
31	- 3	\times	NO RECOVERY	S Z
408	1N 56			- I - I - I - I - I - I - I - I - I - I
ri.	7 -			. ≿
	1			1-1
:	1			LITHOLOGY : GRAIN SIZE : SORTING
•	1			
:	1			-
410÷				06V
710-			Total Pag	ges 114

Ft	Run	# Lithology	Description	iole: ORG-393
710			SAND AND CLAY; Date: Geolo	State: ORANGEBURG, SC 5/1/97 gist: D. PROWELL
			(SAME AS ABOVE), F	- VC , =
-			ANGULAR, POORLY : QTZ. SAND BEDS GR	
	*		UPWARDS INTO WE	IL-BEDDED :
412	ļ	/ . / .	CLAYS IN 2-4 FT C	
•	: :		HEAVIES, TRACE P	YRITIZED E
	8		412.3 LIGNITE, 2-3% LIG	NITE : E
			RAY C.	.1
	REC	22.349		FOSSII
414	h			T. A
	7.1.7			ALOG
				'T'''''
			• **	-
:				INDURATION
416-			NO RECOVERY	ngni
		. /		· · · · · · · · · · · · · · · · · · ·
	RUN54-			SORT
:]	.L. : ,L	SAND AND CLAY; (SAME EXCEPT FOR 1% INCRE	AS ABOVE) : IZE: SON
	-	1.1.1.	F- GRAVEZ (L3mm), TRA	A
418		L L.	OPAQUE HEAVIES; 170 F	WRITE . 1%
•	1		LIGNITE CLASTS (2 cm	
			//7.01.3	1 ·
į.	1		417.9' RAYC.	: 1
420-				-
1-0			#:	Total Pages 114

			· · · · · · · · · · · · · · · · · · ·	1,10,	
Ft	0/	Lithology	Description	Corehole: OR4-393	_
430	7		SAND AND CLAYEY	Cty., State: ORANGEBURG, : Date: 5/1/97 Geologist: D. PROWELL	SC
			BARITIZED SAND SAME		
- :	1		AS ABOVE); F- POORLY SORT	VC, ANGULAR,	
	1	100	AND F- GRAVE	el; larce	•
:	- 1	34. 75	LIGNITE CLAS	T (40mm) AT =	20
432:	- 4	i y II.	433.		Ş
752	(E)			Ē	. u
:	500			:	I/L/I
	REC			: -	STP1
:	4	L 0	3 CARB. CLAY CLAST	; ;-,	٥.
÷	7.0.1		SAND; F-M, SUB-	LONTACT =	1881
434	1		SUB - ROUNDED M		V · F/
	3		TO WELL-SORTED	QTZ. SAND ;	Ö
:	1		5-10% CLAY MAT	TRIX, 1% HICA, =	FRAI
:	1	· · · · · · · /	TRACE OPAQUE HEA	HVIES, TRACE	N
	4	\ /	POSSIBLE BURROW	ED LIGNITE;	NC
:	3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	BEDDING;		INDURATION : MINIFRALOGN
436-		\		· · · · · · · · · · · · · · · · · · ·	NDI
•	1			P	
:	3	\wedge	OLIVE GRAY (54	14/1)	RTIN
:		/\		-	. so
:	= .	/ \	NO RECOVERY	=	SIZE
1208	UN 51				SAIN
4385	AN 60 .	1	SAND; SAME AS ABOVE	EXCEPT	LITHOLOGY; GRAIN SIZE; SORTING
	= :		SAND IS M-C.	=	.0G
:	1			<u>i</u>	1011
:	4			*	
:	1.			=	
440-		· · · · · · · · .		انز	
• • •				Total Pages 114	1

				45 0+
Ft 440	Run #	# Lithology	Description	Corehole: ORG-393 Cty., State: ORANGEBURGSC
			SAND; SAME AS	Date: 5/1/17 Geologist: D. PROWELL
			ABOVE BUT F-VC	, MODERATELY :
- T	·		TO POORLY SORTET	5-10% CLAY
		1 ==	MATRIX LOCAL F	
	-			
442	· ·			ra, E
772	:	6 15 150001		
	. 8		T -	L. C. C. C. C. STRUCTURE
				- <u> </u>
	:			TR :
				- j)
				FOSSILS
	: & :		711	380
444	. (j	100 00 000		
117	0 :			J. ADO
	REC			
-2 -1	: & :	- 3 = = -	- 10 CM LIGNITE W/PYRITE -	ER.
		4940	CIAUSU SAND W/CIAY C	WINERALOGY WINERALOGY MINERALOGY MINERO
	: 4 3		ANGULAR, POORLY SORTED 20mm FLATTENED OCLA	
-	7		TRACE OPAQUE HEAVIES! PD	SSILE BIVALUE (V. SHALD 9
	6		3mm CLAY MOLDS; MIXED TEXT	LRE; VERY UNIQUE;
446-				Y CLASTS; 5% MICA, NO SSILE BIVALUE (V. SHALD DEVE VERY UNIQUE; VERY UNIQUE; VERY UNIQUE; VERY UNIQUE; VINIQUE; VERY UNIQUE; VERY UNIQU
,) LAMINATED SAND AN	<u> </u>
	-		(, ANGULAR, WELL SO	RTED atz. : 9
			RAY C. 10 mm) BEDS OF MI CARBONACEOUS CL	11TH THIN (2- E
			RAY C. 10 mm) BEDS OF MI	CACEOUS - 0
	= =		CARBONACEOUS CL	NITH THIN (2- LACEOUS AY; 5-8% MICA, SISE SOULT ON THE STRACE
	1-1		ATRICE BLI V	
1.6-	9		NO RECOVERY	Y Law I was I was I
448	RUNGO-		TRACE OPAQUE HEAD	TES TRACE - Ö
:	1		LIGNITE, 20% CARBO	1
	- ‡		LIGNITE, 2018 CITED	NACEOUS CLAY, : DO
:	3 1		WELL LAMINATED;	101
	7			= = = = = = = = = = = = = = = = = = = =
	E E		XI SI - I	
:	=		SAND: GRAYISH GREE	N (5646/1)
150			CLAY: DARK GRAY (A	3) - 1 3, 34
450-	10		CLAY: DARK GRAY (A SAND; SEE NEXT PAGE	STGRADATION)
				Total Pages 114

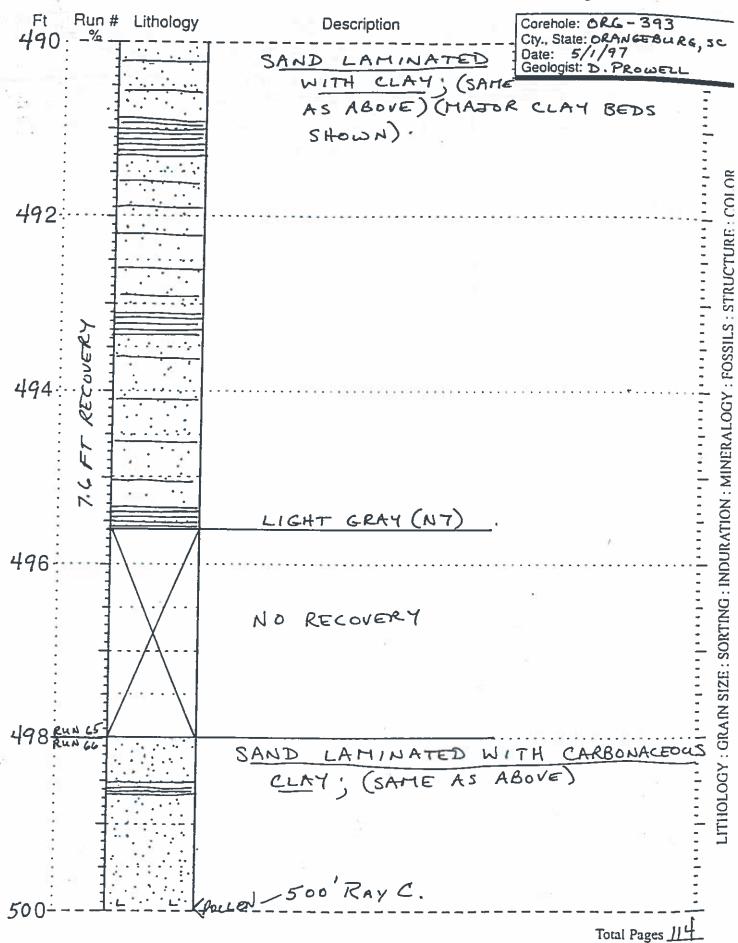
Ft Run 450 %	# Lithology	Description Corehole: ORC - 393	_
450: -4		SAND: F-VC, ANGULAR, Date: 5/1/97 Geologist: D. PROWELL	_
		POORLY SORTED,	-
	E	QTZ. SAND, 0-5% CLAY MATRIX,	
	1	1-3% MICA, TRACE OPAQUE	
360		HEAVIES , TRACE LIGNITE AND	_
-		PYRITIZED LIGNITE; TRACE	2
452:]	RUTILATED QTZ; MASSIVE	5
132		TEXTURE; LOCALLY (THIN 2 cm) :	D II.
•	- :: :: -]	SAND + CARBONACEOUS CLAY;	I II
:			DIE
· · · · · · · · · · · · · · · · · · ·	1		T
; X			· & _
, A		-	1551
1-1: 0		- -	. F.C
454 · · · Ej · ·			Σ
		ϵ	\ \ \
			HPR.
		LIGHT GRAY (N7) CONTACT/NO UNC)	MINIT
: 0		SAND LAMINATED WITH CARBONACEOUS	3.5
		CLAY; VF-F, ANGULAR, WELL-	INDURATION
		SORTED QTZ. SAND LAMINATED	JRA
456		WITH MICACEOUS CARBONACEOUS.	GN
]; []
		GLAUCONITE, TRACE OPAQUE	ĬĬ
		HEAVIES; TRACE PYRITE, SPARSE LICNITE FRAGMENTS (15 mm).	ÖK.
		LICNITE PRAGRES 13 ETS MAN.	ਜ਼ : S
		WELL LAMINATED WITH 3-8mm	SIZ
500 m	6	CLAY LAYERS SEPARATED BY	LITHOLOGY : GRAIN SIZE : SORTIN
458 Run 61		SAND, F-VC, ANGULAR POORLY UNE ??	GR
45		SAND: F-VC ANGULAR POORLY UNE ??)	≿
	g	SORTED QTZ. SAND, 5'% CLAY	07
		MATRIX; 1-3% MICA, TRACE	₫
4		CLAUCONITE + OPAQUE HEAVIES,	LIT
: 3		CLAUCONITE + OPAQUE HEAVIES, LOCAL LIGNITIC FRAGMENTS (2.5 cm)	
., : :	G	AND PYRITIZED CIGNITE, TRASSIVE	
460		TEXTURE: POORY CONSOLIDATED:	
• •		LIGHT OLIVE CRAY (546/1) Total Pages 114	
		55	

	Ft 460	Run #	Lithology	Description Corehole: ORG - 393 Cty., State: ORANGEBUR	و د د
		_a1	ċ	SAND; SAME AS Date: 5/1/97 Geologist: D. PROWELL	
	2.	•	1. =	THIN (0.1 - 0.5 FT) CARBONACEOUS,	:
	12-527	= -		LIGNITIC CLAY BEDS; POSSIBLE	-
		=	٥	IN-SITU WEATHERED FELDSPARS	- ~
				AND (OR) WHITE CLAY BLEBS.	COLOR
	462		G		
	•	<u>.</u>			STRUCTURE
		:			RUC
	•	-	6		
	•	>	G	#	FOSSILS
	•	ECOVERY			FOSS
	464:		ζ	5	
	•	RE.		CARB. CLAY + PYRITIZED LIGNITE	007
	•		· G		 ERA
	- :	$\mathbb{Q}_{\frac{1}{2}}$			- N
	•	7	c		
		6	2	· ·	+ 1 + ATTO
	466				INDURATION: MINERALOGY
	7 6 0.				: \(\frac{1}{2} \)
•		4	9.4	*	- S
	:	- 1		LICHT OLIVE GRAY (546/1) TO) I I
	:	1		DARK GRAY (NS)	 S:S
	, ,	-		NO RECOVERY	SIZI
2-]			GRAIN SIZE : SORTIN
	468%	UN 62		SAND LAMINATED WITH CONTACT/NO. WINC	: GR
4.5	* PO44	EN		CLAY; VF-F, ANGULAR, WELL-	 } }
	68.5	1		CORTED OTZ. SAND LAMINATED	010
K	AY C:	4		WITH THIN LAYERS OF CARBONACEDL	ייייייקיי
	_ :	- 1		CLAY: 5-8% MICA, TRACE OPAQUE	
		‡		HEAVIES . TRACE PYRITE . WELL LAMINATED (3-5 mm CLAYS) (10-30 mm SAN	152)
34	470÷			DARK GRAY (N3) CLAYS	
	1 1 14 1			DARK GRAY (N3) CLAYS Total Pages 11	4_
				新 <u></u>	

			A.:	, ,
Ft	Run#	Lithology	Description	Corehole: ORG - 393
470	%_	77.7.7.7.7	,	Cty., State: CRANGEBURG, SC Date: 5/1/97 Geologist: D. PROWELL
			SAND LAMINATED	Date: 5/1/97
		- 11 4 1 1	WITH CLAY SAME	Geologist. B. PRBWECE
	;		A6 A0-15) 0-45	0.44 .44
- 22			AS ABOVE , SOME	CLAT LAYERS:
10	-		30-40 mm THICK;	EVIDENCE OF -
	*		LOW ANGLE X-BE	DS · (MAJOR :
	÷ -		CLAY BEDS SHOWN)	•
	i.	-		*
472				- (
7/2				
	*			_ {
	: :			- {
	<u>:</u>	15		- :
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	,	380		
		0.00		<u> </u>
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ر جار	· v			- <u>-</u>
474			*************	878888 - 18878 - 112 B. 12
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	RECOU	11111		
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	9.5	1. 4.		
476-		.,		
10				
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4	. 1	5.7. · · · · · · · · · · · · · · · · · ·		- £
99				
	:]		LICHT DLIVE GRAY (54	16/1) SANDS
	<u> </u>	350 - 10	DARK GRAY (N3) CLAYS	<u>6</u>
	: :			
		\times	NO RECOVERY	- 4
4784	RUN 64.			- CONTACT NO UNC - &
1			SAND AND CLAY; F-V	C, SUB-ANGULAR;
	3	- L	DARRIY SORTED GIZ	. S/TN D
÷1	: :	· 4 · ·	CONTAIN NO REDS (O.	4 PT TATICAL
	#	1. · · . i		, 40, 7-4 (6
•	7		MICA, TRACE OPAQUE 1% LIGHTE (< 1 cm FRA LIGHTE RICH THIN (2)	= HEAVIES, = 5
	1		B LIGHTE (LIAM FRA	(65.) · LOCAL
:			170 LIGHT PION THINKS	-4 mm) LAYERS ! =
:	3		LIGNITE- KICH THIN (7 (70)
480-			MASSIVE TO WELL LAP	INKIED CAPA
TOU				Total Pages 114
		•		tom rages 11.

2.65

1			47 0+
Ft 480	Run # Lithology	Description	Corehole: ORG -393 Cty., State: ORANGEBURG, SC
		SAND AND 30% CLAY	- Cty., State: ORANGEBURG, SC Date: 5/1/97 Geologist: D. PROWELL
		LIGHT OLIVE GRAY (5)	(6/1) SAND.
2		T DARK GRAY (N3) CLAY;	EVIDENCE OF:
- es	1::	LOW ANGLE X-BEDS	S; (MAJOR CLAY =
		BEDS SHOWN)	
		··	-
100			
482			· · · · · · · · · · · · · · · · · · ·
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•	4,		- =
	>	· i =	FOSSII
484	RECOVERY	LIGHT OLIVE GRAY (54	4 1 4 1 \ 2 min a com and a community of the community of
•		DARK GRAY (N3) CLAYS	
•			CONTACT/NO UNC = 5
	&	SAND LAMINATED WI	TA CCAS , VF-F,
•	L	ANGULAR, WELL-S	_ **
•		SAND LAMINATED	WITH ITIN : YOU
•	5	CARBONACEOUS C'	TRACE HONKEITE,
486-	0, 1	5-8% MICA, 1% LI OPAQUE HEAVIES, 7	GNITE ATRACE - D
•		EVIDENCE OF LOW	I ANGLE X-BEDS :
:		IN LIGNITIC SANDS	. CORE 15 702 : X
		SAND - 30% CLAY;	CORE IS 70% : LLEY BEDS - 8
		· ·	SHOWN)
	1	LIGHT GRAY (N7)	GRAIN SIZE: (Non HS
		NO RECOVERY	: \\
488\$	UN 65	v	
A			37 :
:			001
•			1.10
:		POLES 489.3' RAY C.	<u> </u>
:		Mar 487.3 KAY C.	· <u> </u>
•		S 1 4 70 1	* · · · · · · · · · · · · · · · · · · ·
490-			
			Total Pages 114



Ft	Run #	Lithology	Description	Corehole: ORG - 393	_
500			SAND LAMINATED	Cty., State: DRANGEBURG, SC Date: 5/2/97 Geologist: D. PROWELL	
16		-	WITH CARBONACEOU	2	-
` <u>a</u> ,'		* ·	CLAY (SAME AS	ABOVE) EXCEPT	
	_	- 41	WITH 90% SAND -	10% CLAY BEDS ;-	
•	_		WELL-DEFINED LI	IGNITIC LAYERS :	بہ
:	1		SHOW LOW-ANGLE	X-BEDS.	
502				· · · · · · · · · · · · · · · · · · ·	
:	- 1				STRUCTURE
•		# - 34.		- 5	<u> </u>
•	2				2 2
:	ovER				• •
•	8 1				POSSILS
-01	23	1 = =			2
504:	· 6			_ >	Š
		7.00 %		YOO IA GINIMA MOTE AUTOM	777
	2		- 1 S J INC		ĭ.
485	6				Ē.
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					5
506:					200
:	1			.	
	1]
:	4			- 1	2
•	*		LIGHT GRAY (N7)		i
•			NO RECOVERY	1 213	710
508£	un 66			: 4	Ś
300	UN67 -:		SAND (VF-F) LAMINA	TED WITH	5
:			CARBONACEOUS CLA	ty: (SAME - S	2
	-		CARBONACEOUS CLA AS ABOVE); SPARS FRAGMENTS (< 2 cm)	TED WITH Y (SAME LIGNITE	1
		h =-	FRAGHENTS (< 2 cm)		=
:	i				-
•	4 :	<u>-0</u> 21 2		"= "1	
510-					
		V.	* 1	Total Pages 114	

LITHOLOGY : GRAIN SIZE : SORTING : INDURATION : MINERALOGY : FOSSILS : STRUCTURE · COLOR

*	Ft		Lithology	Description	Corehole: ORG-393
1. 1. j.	<i>5</i> 20			CLAYEY SAND AND SILT; (SAME AS ABOVE)	Cty., State: GRANGEBURG, SC. Date: 5/2/97 Geologist: D. PROWELL
	<i>5</i> 22			CPOLLEY - 522' RAY C. DARK GREENISH GRA	-4 (564 4/1)
	<i>5</i> 24∶	T RECOVERY			4 (5644/1)
	, 24	7 4/7		NO RECOVERY	INDURATION: MINERALOGY
	<i>5</i> 26 -				
	C20 F	un 68	/		RAIN SIZE: SORT
528	Dinos	UN 69		CLAYEY SAND AND ABOVE); ONE SAND AT 532 FT. SILT-VF SAND, MUDD MICACEOUS (VF-M, FIZZ, INDISTINCT SUGGEST BIOTURBA	-FILLED BURROW : 50 10 10 10 10 10 10 10 10 10 10 10 10 10
	<i>5</i> 30÷	 	::::::::		Total Pages 114

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				54 ot	
Ft	Run :	# Lithology	Description	Corehole: ORG-393	
530	_%_	= = = = =	Description	Civ. State: PRANCERUPE CO.	
330			CLAYEY SAND AND	Cty., State: ORANGEBURG, SC Date: 5/2/97 Geologist: D. PROWELL	-
**************************************	-		SILT . (SAME AS	Geologist: D. PROWELL	i
254					
	-		ABOVE) EXCEPT &	CLAY IS	
	-0		INCREASING WITH	DEPTH.	
			[N CREASTION	:	
				:	~
:			DISRUPTED BEDDENG		ō
<i>5</i> 32:			SUGGESTS BURROWING	=1 =1 :	COLOR
332			3-BURROWED (ONE. SAND. FILLED).	-	3::
•				:	R
•	•				Ĭ
8 :	>	=:::=:::		35	3
•	ゟ -			1 h 1 3 <u>1</u>	TR
•	VE.				.:
•	ECOVERY				11.5
:					SS
	8				: FOSSILS : STRUCTURE :
<i>5</i> 34:		Har Maria	DARK GREENISH GRAY (G(4411)	
•	ii :	1	DIAN GREENISH GRATT	33,777	NDURATION: MINERALOGY
•	\sim	1\//			AL
•	α :	3 \	*	A	ER.
	_ ف].\/.			\equiv
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]	\/	11- 0-		<u>1</u> 2
<i>5</i> 36÷		····· ¥ ·····	NO RECOVERY	<u>-</u>	
•	. 4				\mathbf{z}
•	<u> </u>	o		= 1	<u>Ö</u>
	- 1	/ \			<u>E</u>
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•	4	/ · * · · · \	- 34 45 32 114	-	SI
4 :	1	/ V		2	Ę
538点	10 69 7			<u> </u>	5
ar .	`` '` }		CLAYEY SAND AND SILT (+S ABOVE)	· ·
20 1			C. August Sand	GRADATIONAL CHANGE	G
	4:	~ · · · ·	CLATES SAND, VF-F, A	NGULAR, WELL-	Š
	4.	<u> </u>	SORTED GIZ. SAND IN	20-40% CLAY -	0
•	7		CLAYEY SAND VF-F, A SORTED QTZ. SAND IN MATRIX , 2-5% MICA	, IRACE PYRITE, -	TITIOLOGY
:	3		GLAUCONITE, FOH, LI	GALIC, OTHERS	
•		Gii	HEAVIES; WELL-CO	MPACTED:	
•	1	~	NUMEROUS BIVALVE	MOLDS/CASTS:	
540					
510				Total Pages 114	
				ioai rages IIII	

/_		, , , , , , , , , , , , , , , , , , ,	
Ft	Run # Lithology	Description Corehole: ORG- 393	7.7
540) · - 4	T Cty., State: ORANGEBURG S	دد
		THIN (2-5mm) CLAMES Date: 5/2/97 I AYERS EVERY O. 1 Geologist: D. PROWELL	
	~	LAYERS EVERY O. 1 Geologist: D. PROWELL	
	i e	TO 0.3 FT. ARE INCLINED AND	-
		SUGGEST X-BEDDING; COMMON	-
		SMALL SAND-FILLED BURROWS;	
		SMALL SAND-FICCULAR OF PORCH	-
		PYRITIZED (?) LIGNITE OR REDDISH	
	*	MINERALIZED NODULES.	ا مارات
542			ج 3
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		* =	<u> </u>
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542			: 2
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	ECOVER	 	FOSSILS : STRUCTURE
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:		<u> </u>	. 은
. :		COCLEN 545.8' RAYC.	∑
546-			INDURATION: MINERALOGY
:	·~ ·	17 150 N E NOV 1997 6- 34 O 1942 > 1/4	Z
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3			Ž
:		DLIVE GRAY (544/1) TO	7
:		DARK GREENISH GRAY (5GY 4/1)	- SC
			E
:	1	NO RECOVERY	SIZ
			Z
548 8	UN 707		. ≱
45	7	CLAYEY SAND; SAME AS ABOVE	
X 0000	7	BUT WITH INCREASED SILT AND -	ζJ
	9 1		07
:		CLAT	THOLOGY : GRAIN SIZE : SORTING
:) ~ ~	-	Ξ
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:		:	
550-			
		Total Pages 114	

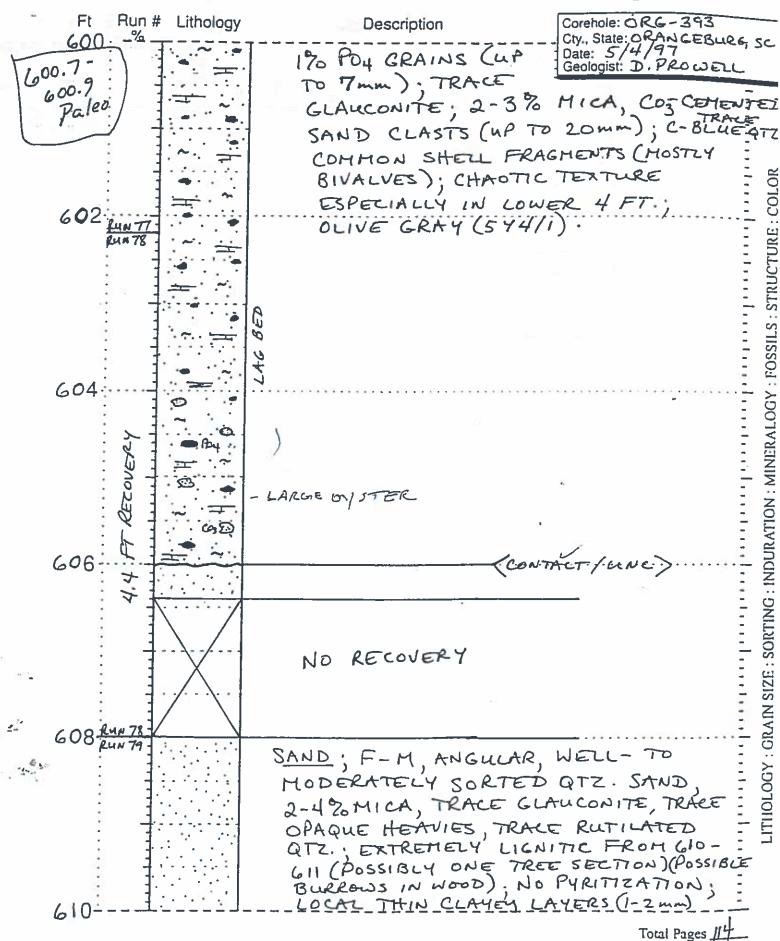
				56 of
Ft 550	Run #	Lithology	Description	Corehole: ORG - 393 Cty., State: ORANGEBURG SC
		<u>(-</u>	CLAYEY SAND, (SAME	Cty., State: ORANGEBURG, SC Date: 5/2/97 Geologist: D. PROWELL
	27		AS ABOVE) EXCEPT	D. P. RESELL
	VER		WITH INCREASED	SILT ANCLAY
¥.	: 22		and the second second	, === T
	. KE	- G		
	: 1/- 3	~		107
552		~ 6	=	<u> </u>
2-	. M :	~	-52.7 RAYC.	E E
552,0.2	, ", 1	~ · · ·	(POLLEN - 552.7' RAYC.	
553.2 Dinos	1	· ; · ~	COLIVE GRAY (544/1) TO	und :
\ D"	LUN 72-		DARK GREENISH GRAY (50	59 4/1) CONTACT = 5
		٠	CALCAREDUS SAND LA	tG; F-C, ANGULAR: 9
5538 Nam 554.0 Nam	·)]	Pou	POORLY SORTED QTZ.	- ()
554		⇒ · ∻	CLAY MATRIX; WEAK	요요. 시간이, 상계
	1		1-2% MICA, 1% GRA	
•	- 1		TO 6 MM GRAINS); 1	7. VC QTZ.
:	_ 1		GRAINS, TRACE OPA	QUE HEAVIES,
:	OVER		SPARSE CARBONACE	ous clay
i :	30	-	CLASTS (UP TO 30 mm); COMMON Z
:		~	BIVALVE FRAGMEN	TS; SPARSE
556	. Ž		SHARK TEETH AND	
556.8	[]	~	MASSIVE TEXTURE	
556.0 7.0 557.0	6		INDURATED; LIGH	TO SERVE
Num	洲		GRAY (545/2)	SORTING
01 25/			557.3' RAY C.	
RL376:	<u>}</u> .	~~~	CONSILTY CLAY TO MARL	, PLASTIC,
	72		CARBONACEOUS CLAY	
558£	UN 73		5% SILT; 2-4% M	
1 1	· 4:		SORTED AND COMPA	TCTED, WEAR
=	3		REACTION TO HCI; C	DAMON BIVALVE- 0
:	1		SHELLS (SOME PRE	DMMON BIVALVE DO DE SERVED IN DO DELL-
= 77 //	1		MOTHER- OF- PEARL	-); WELL : 5
9 %	1		LAMINATED; OTHE FOSSIL FRAGMENT	Z
	1-	2	OLIVE GRAY (543/2) TO O	LIVE BLACK (542/E)
<i>5</i> 60÷			pollen	1
			560' RAY C.	Total Pages 114
			f 10 *	

7 7 12		2/81
Ft Run # Lithology	Description	Corehole: ORC-393
200	SILTY CLAY TO MAI	- Cty., State: ORANGE BURE, SC 21 Date: 5/2/97 Geologist: D. PROWEZL
561.8	(SAME AS ABOVE)	; WEAKLY :
\561.0 Namos	CALCAREOUS AN	
	FOSSILIFEROUS REACTION MAY I	
	FOSSIL TESTS.	
562	••••••	
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> ======		111111
564		<u> </u>
0 =====================================		
S S S S S S S S S S S S S S S S S S S		
		INDURATION: MINERAL OGY
0 =		
566		<u>-</u> 20
567.2		SORTING
567.2 paleo		
		- 1 - 2 2 1 2 7 2 1 2 1
568 RUN 73		ONTACT/NO UNC) : Y
E. C.	WELL SORTED QTZ	VF-F, ANGULAR, O
	20-30%	CALCAREOUS : 0
	CLAY MATRIX, 4-	.5% MICA; - = =
	TRACE GLAUCONIT	
	AND COMPLETE S	HELLS;
570		Tari B 114

	£	70 00
Ft Run # Lithology	Description	Corehole: ORG-393 Cty., State: ORANGEBURGSC
	EVIDENCE OF LOCA	
	HEAVY BIOTURBATTO	ON;
	OTHERWISE ALTER	NATING 1-2 cm
	BEDS OF CALCAR	LEOUS SAND -
· · · · · · · · · · · · · · · · · · ·	AND CALCAREOUS	CLAY RETAIL
	572.5 FT.	: 5
572 ~	372.3	
	(F.)	STRUCTINE: COLOR
1572.2		- 1
(512.2.2) =	1	
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		- 318
3		FOSSILS
574	••••••	
		50
		- L
∞ +		·
F76		INDURATION: MINERALOGY
576		<u> </u>
	OLIVE GRAY (543	67
	OCIVE GRAT (373	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
· · · · · · · · · · · · · · · · · · ·		1. 08:
	NO RECOVERY	IZE
578 Run 74		<u> </u>
	pollon ANDY, SILTY MARL	(SAME AS SECTIONS BATED)
11/) 10 10 10 10 10	SECTIONS : 6
1516: 1:0:	ABOVE) (SANDLER S 578.3' ARE WELL BIOTUR	BATED)
578. Led	RAY C.	_
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	W/ C1	1
		= 7
580	~~~~~	
		Total Pages 114

			The state of the s	- , • ,
Ft 580	Run #	Lithology	Description	Corehole: ORG-393 Ctv. State: ORANGE 81196 50
380		٠٠٠٠.	SANDY, SILTY MARL	Date: 5/4/97 Geologist: D. PROWELL
7 (5),01			(SAME AS ABOVE) (
		`` ~	BIVALVES; MOST OF S	ANDIER SECTIONS
		***	ARE WELL BIOTURBAT	ED).
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582				·····
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:	376			
	RECL			<u> </u>
584:	8	~ :-		
584.90	T I			
584.0 585.0 Paleo	0 }			<u> </u>
Yar	0	~ <u></u>		
		~	•	- (
586÷			• * * • • • • • • • • • • • • • • • • •	<u> </u>
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:		: <u> </u>		
· ·	1- 1-1-			TONAL CONTACT - 5
- COOR			CLAYEY MARL AND CO3	SAND VF-F,
588 <u>k</u>	1 176 =		ANGULAR, WELLSORTE	_
	\ <u> </u>		pollen SAND INTERBEDDED 1 588.4 OF CLAYEY MARL;	
1-6995	, 1,	~	RAY C. BEDS ARE 0.5 TO 2.1	FT THICK;
589. Te	0		RAY C. BEDS ARE 0.5 TO 2.1 2-4% MICA, 170 GLAU TRACE CHLORITE (?)	CONITE,
\ ''	╱ 事。	~	HEAVIES; ABUNDANT	HEZAFICELL
590	<u> </u>		[[2,1,1,2,2], 1,0,4,0],1,0,1	
				Total Pages 114

	Bus 4	4 talenten				000	`
- Ft 590	%_	# Lithology	Illum Description		Corehole: Cty., State	ORG-39	FBURESC
_ = Y A	•	:	SHELLS (MOSTLY		Date: 5, Geologist:	D. PRO	EBURG, SC WELL
		1. ~	BIVALVES); SAND ARE MASSIVE AND FIARL IS WELL-L 7HIN (1-2 mm) SAND/S	B10 AMI	S TURBA NATED	TED, CI W/TH	LAYES VERY
592		1 = ==================================					TURE: COLOR
594.0594 594.2 594.2 Paleo	8.5 FT RECOVERY		pollen - 594.9' RAY C.				INDURATION: MINERALOGY: FOSSILS: STRUCTURE
596	8	~	DARK GRAY (N3) CLA NO RECOVERY) SAND MARL	
598 (Au 76 -		CLAYEY MARL & CO AS ABOVE) CALCAREOUS SAND POORLY SORTED, QT CLAY MATRIX, IN	LAG	CONTA	(SAME ANGUL 10-307	λ9010ΙΙΔΙΤ
			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		_ 	Total Page	rs <u>114</u>



612.1

RAY C.

Description

ARE CHARACTERIZED BY

LAMINATED

FRAGMENTS

Lithology

Run#

RECOVERY

610.

612.4-

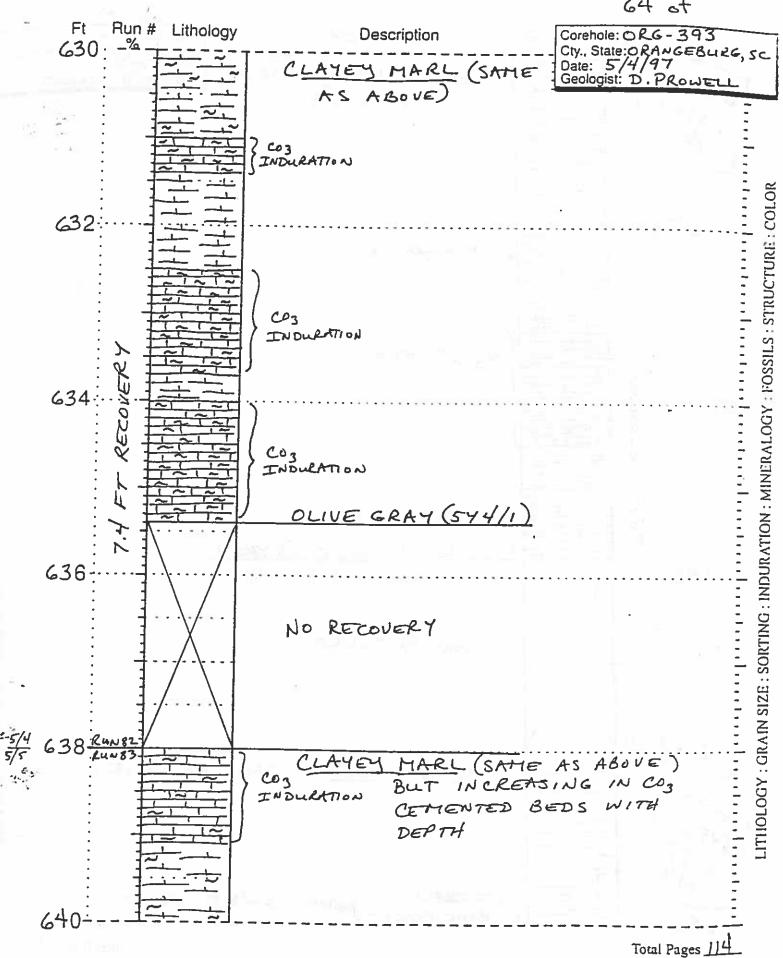
612.6 Pales

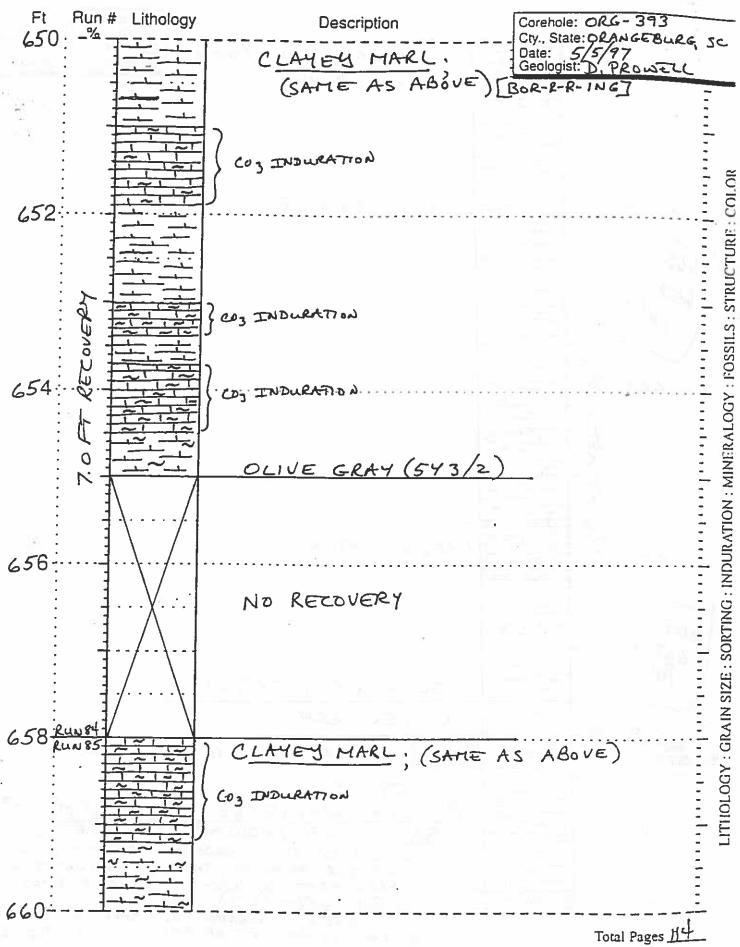
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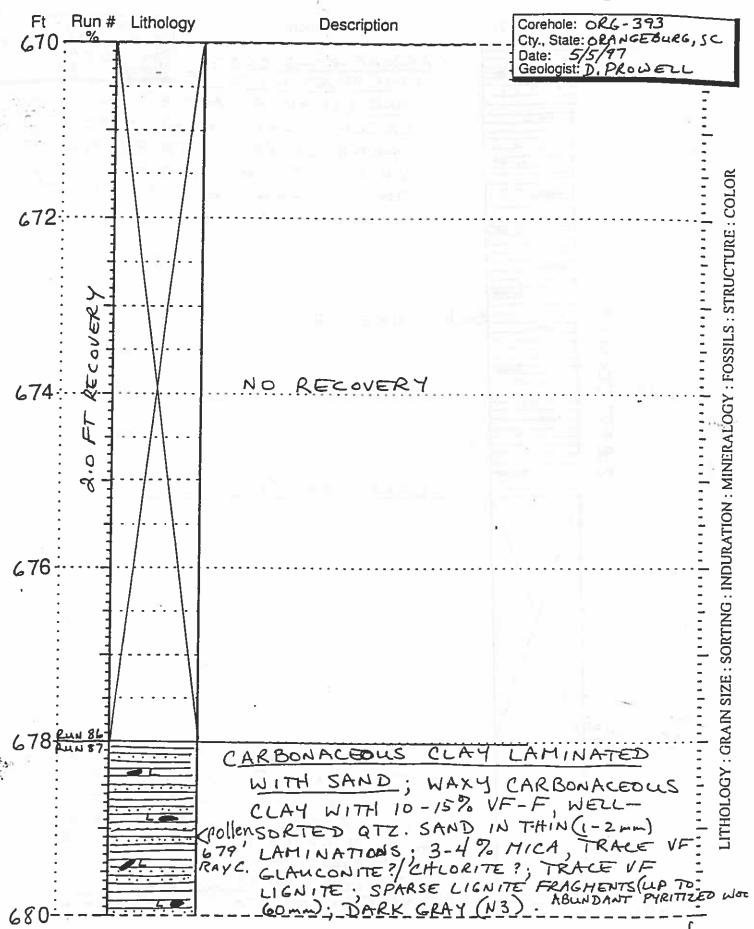
618.5 Paled

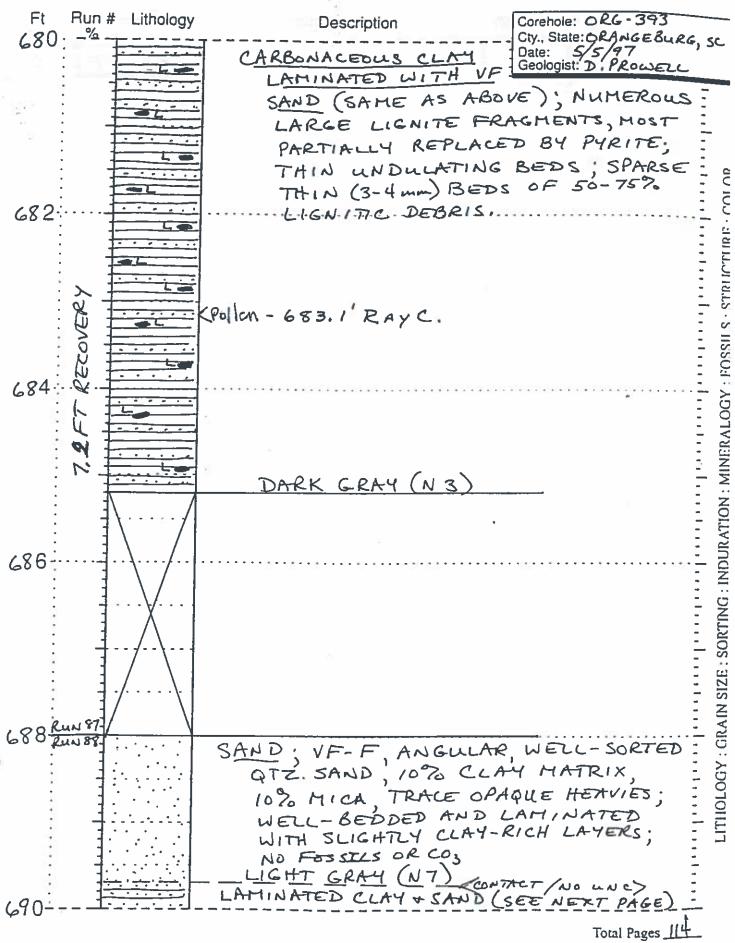
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- Ft	Run#	Lithology	Description	Coreh	ole: ORG-393	10
660	%_	EE-37-7-	•	_ Cty., S	State: ORANGEBUR 5/5/97 gist: D. PROWEL	16,5c
			CLAYEY MARL; (SAME	Geolo	gist: D. PROWER	ر اد
		~	CLAYEY MARL; (SAME	-		
						-
7.	:					*
1 2		~ ~				ε .
3.]	~				- ~
	1	~				- <u>-</u> <u>-</u>
		~	Kpollen - 662 RAY.C.		and a reserve	COLOR
. 662			Challest			(2) (2)
	1					STRUCTURE
662.1- 662.2 Paleo	/\ 3	~ ~				ı - ı JCT
11,2.2	1					rr.
\ 600 (w):	1					S
\ Pa.	ノ]					STI
	1	-11-				FOSSILS
:	2					F0
664:	Ø j					
•	RECOV.					: 0
:	B 크					- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
•	\$ 1					
•	k -					<u>- Z</u>
i	C	~				: ×
	2		× .			r r ·
:	6; ‡		CO3 INDURATION			
666-	···)			INDURATION: MINERALOGY
	Λ ‡	12 2				<u> </u>
1	1 4	~~				<u>-</u> 9
667.0	1 3					SORTING
107.2	1 4					- I SOI
667.2 Paleo	/ 3:					I 15
14.5	J ‡-	٣	OLIVE GRAY (573/2)			ıı SIZ
	1		NO RECOVERY			GRAIN SIZE
*668£	นก 82					<u>&</u>
RL 3.78	MN 85 15		COS CLAYEY MARL; (SAME A	s Ae	SOVE)	
14.5.19	- F	- L L	DIDULATION			LITHOLOGY
K	10		Pollen 679.0 Ray C. Pollen 679.0 Ray (543/2)		PPROX. (68.8 => 678))
- 1. The state of	4:			100	メンスト フェーノ ひょうりん	, - 1 E E
	12		SAND: VF-F, ANGULAR, L	MESL	- SORTED;	
:	<u> </u>	<u> </u>	19 HICK 194 GLANCONI	TE T	KACE LIGHTI	724
:	35		TOPAQUE HEAVIES; THIN CARBONACEOUS CLAY;	NO CO-	OR FOSSILS.	- 17
170	_		LIGHT CRAY((NT)			<u>:</u>
670-			CHANGED EA	COM SI	HE AND MAY	4
			BE FROM LOWER 8 FT OF RE	~ w ·	Total Pages 📙	
					40	





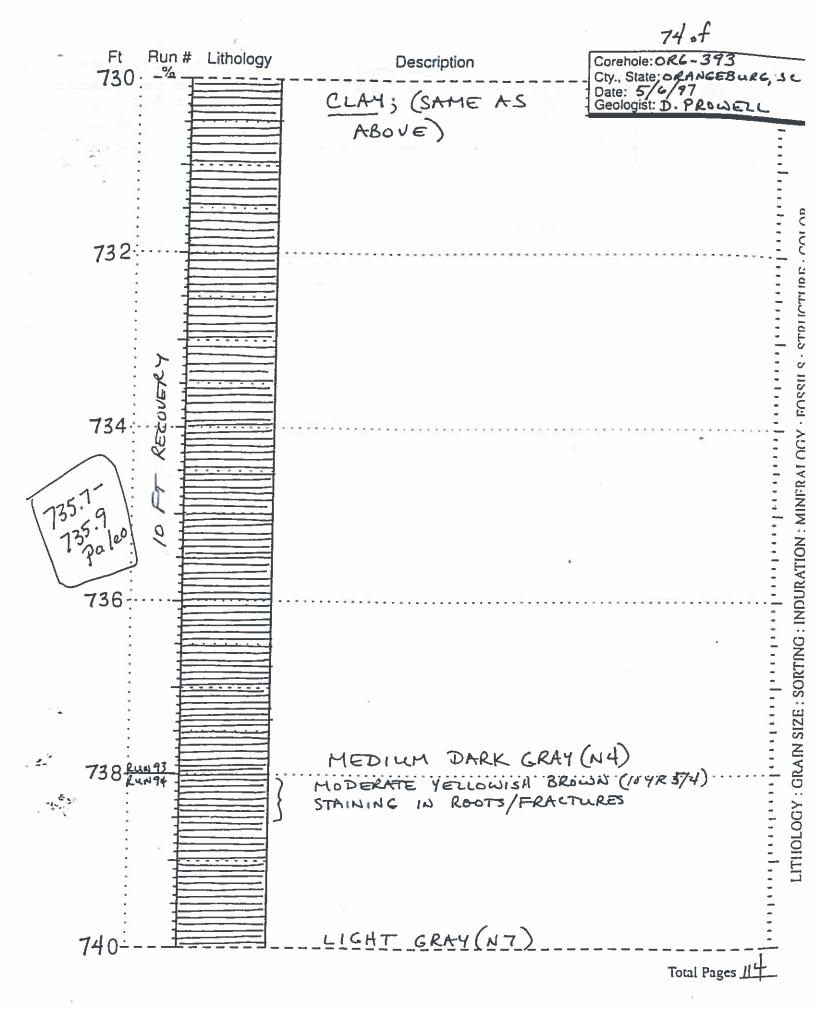
70	of
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			5 .	10 ot
Ft 69(# Lithology	Description	Corehole: ORG-393 Cty., State: ORANGEBURG, SC
			CARBONACEOUS	Date: 5/5/97
			CLAY LAMINATED	Geologist: D. PROWELL
24	•		WITH SAND	- 1 T
5 5)	1 n - 1 g
7.	:			<u> </u>
	:		-	· .
	:			COLOR
692	<u>.</u>			
•	•			: H
	. >		TO THE TAX IN	
	E72		BROWNISH BLACK (542)	STRUCTURE STRUCTURE
	: W			CONTACT/?
	: 0		CLAYEY SAND , F-YC,	ANGILLA
	REC	1	SUB-ANGULÁR, POOR	
			QTZ. SAND, 10-15%	SOFT MILKY : 8
694	:	100 <u>100 100</u> 100 100		12
	: U			
	: 4:	1 /		
	•		NO RECOVERY	
	: -			<u> </u>
	RUNSS			CONSOCIDATED, LINDORVALION: MINERALOGY
	RUN89	;:···	CLAY MATRIX, POOR	Y CONSOLIDATED - E
696	ـ. حد		2-32 MICA, TRACE	MONAZITE
910	: દ્વે :		,	
	. 30		TRACE RUTILATED G	11/ INMOL
	: בכל		OPAQUE HEAVIES; L	OCAL LIGNITE (COME) Z
	, Y		FRAGMENTS PARTALL	Y REPLACED : 20
	: L]		OPAQUE HEAVIES; L FRAGMENTS PARTALLY WITH PYRITE; 170 QT IN THIN BEDS (0.3-0.	TZ. GRAVEZ (< 8mm): "
	1	: [IN THIN BEDS (0.3-0.	S FT): SPARSE
, ×	•]		CLAY BALLS (KIOME); F	POORLY
- 698	50489 -		CONSOCIDATED; EVID	POORLY Z
5.5	1	200	00143827271102, 011	
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•	- 1			770
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:				= =
:	1		1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
	1		VERY LIGHT GRAY (N8)	7.0
700÷			LIGHT GRAY (N7)	
				Total Pages 114
				12

Ft	Run	# Lithology	Description Corehole	: ORG-393
700			CLAYEY SAND , (SAME Geologis AS ABOVE)	te: ORANGEBURG, SC 5/6/97 St: D. PROWELL
	RECOVERY			į
	;			ac 16
702	4.07		NO RECOVERY	
59	<u>:</u>		No Recover	T. T. T. T. T. T. R.
	•			FOSSILS
704			25	1000 - Carrier
	* * * * * * * * * * * * * * * * * * *		45	
	RECOVERY			
706-	7			
•	4.2 6		VERY LIGHT GRAY (NE) TO	SORTING:
			LIGHT GRAY (N7)	- **
708 .	-		NO RECOVERY	LITHOLOGY : GRAIN SIZE
:	1		NO RECOVERY	111111
	1 1 1			LITE
710-		· · · · · · · · · · · · · · · · · · ·	CLAYEY SAND (SAME AS ABOVE)	
				7.12 114

				00 12 01
Ft F	Run #	Lithology	Description	Corehole: ORG - 393
710.	_% _			_ Cty., State: ORANGEBURG SC
				Date: 5/6/97
***		122	1	Geologist: D. Peow ELL
eo : :	> -		FLIGHITE	N.
	X .]	3	-
45,	7 -	1:::: :: :		•
4)	RECOVERY			CONTACT :
•	7		CAUDI CIAU E C	Control Decour
•	Q -		SANDY CLAY : F-C , A SORTED GTZ. SAND	MGULAR, POORLY
•	7		SORTED GTZ, SAND	(10-20%) IN : 9
710	t :		DENSE WAXY CLAY	1 (70-80%).
712:	<i>≱</i>		16 17 1	1 CALITE
•	m:		DENSE WAXY CLAY 2-4% MICA, 1% L (ADDITION FRAGHENTS (<50 mm)	E E E
	_		Non FRAGHENTS (<50 mm)	; WELL - BEDDED. :]
•	-		Poller	
0,,,	N 90 -		712.6' RAY C.	(10-20%) IN (70-80%); IGNITE: WELL-BEDDED: 1.
	उना :		MAY C.	- I. S. I. S. I.
•	1			
	_	• • •		: =
:	-			FOSSILS
	93			- 5
714:			***************************************	
•				
•	3			: 2
	F			- -
: 5	1			: 9
: !	KECOVERY			<u> </u>
	> 1			
: 1	‡ ŭ			: X
: 6	2 7			
	` ‡		MEDIUM LIGHT GRAY ((86)
716	۲. ۱			KCONTACT ?
	\		CLAYEY SAND . F- VC	(9 N) CONTACT: INDURATION: MINERALOGY
	⊁ :		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2) - 17-5 DT
	* 1		MODERATE TO POORL	7-30×100 912.
•	- 1		SAND IN 5-10% CLAY	MARIE VI
•	4			VF LIGNITE, 2/6 - 6
•			MICA 190 MONAZITA	E AND RUTTLATED = "
•	4		OTZ. 1% PYRITIZED W	OOD, LARGE LIGHTE H
•	4	····/	OTZ. 170 PYRITIZED W	MATRIX, 1% 9TZ. WATRIX, 1% 9TZ. VF LIGNITE, 2% E AND RUTILATED SOD, LARGE LIGHTE FRAGMENTS (L40mm); IS EVIDENCE OF LOW ANGLE X-BEDS, 25 TRACE OPAQUE
7. :	1	\times 1	NO RECOVERY	EVIDENCE OF : Z
718 RUN	191-			LOW ANGLE X-BEDS, &
110 RUN	92	\		TRACE OPAQUE
:		\ /		HEAVIES;
•	7	.\/.		mervies,
	- 1	\ /		: 2
•	- 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NO REZOVERY	HEAVIES;
	7	\.\1	· l	HEDIWI GOT (NO) - E
•	- 1	/ \		- H
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	#	/ \		:
440:	1/			÷
720÷				
				Total Pages 114

				73 of
Ft 720		Lithology	Description	Corehole: ORG-393 Cty., State: ORANGEBURG, SO Date: 5/4/97 Geologist: D. PROWELL
			NO RECOVERY	
722	87 اسماسیاسیا		CLAYEY SAND , (SAME AS BUT WITH INCLEASED MATTER.	CARBONACEOUS
724 124.4 124.6 726	Els 18 Solution of the Recover		CLAY; STIFF, DENSE CLAY CONTAINING 5-10% F-VC QTZ THIN (D.I - D.3 FT T CLAYEY SAND BED OF. BACKFILLED. RE CRACKS; RED/PURP OVERPRINT; EVIDE SCICKENSIDES ANT CRACKS; SANDS SHO QTZ AND MONAZITE LIGHT GRAY (NT) PALE RED (5RG/2) STA	J-5% MICA, SAND, LOCAL HICK) F-VC S, EVIDENCE HOTS / MUD PLE STAIN ENCE OF DESSICATION W 170 RUTILATED TCAPE FEAR TYPE CLAMS
730-			LIGHT OLIVE GRAY (5	Total Pages 114



Ft Run 740%	# Lithology	740.7' RAYC. Description	Corehole: ORG-393 Ctv., State: ORANGE BURG.	_
140.8		SILTY MICACEOUS, PARSONACEOUS CLAY; WET	- Cty., State: PRANCEBURG, SC Date: 5/C/97 Geologist: D. PROWELL L-LAMINATION	
Paleo.		ENRICLAYEY SAND; F-VO	E, ANGULAR,	
742		POORLY SORTED QTZ CLAY MATRIX; 1-29 2% MICA, 1% RUTILA MONAZITE, TRACE F	70 QTZ GRAVEZ (44mm).	COI.OR
		MONAZITÉ, TRACE F TRACE OPAQUE HEAVIE: LARGE (50mm) LIGNITA WELL-BEDDED; POORG LICNITE LICHT GRAY (NT)	EUSPAR (<3mm) S, TRACE LIGNITE; E FRAGMENT AT 743: Y CONSOLIDATED;	STRUCTURE:
	\/	LICHI CKAT (NI)	=	FOSSILS : ST
744::447	. \ / .	7.744 RAY C.		
\$ t		NO RECOVERY		OURATION: MINERALOGY
746	<u> </u>			INDUKALI
				OKLING:
la lungt	<i>/</i> \			AIN SIZE: S
148 Lun 15		CLAYEY SAND, F-VC POORLY SORTED QTE	, ANGULAR, SAND IN A	בסמג : מני
		DENSE 10-20% CLAY 1% RUTILATED QTZ. TRACE FELDSPAR. THEAUTES, SPARSE QTZ	TRACE MONAZITE, - E	
750		HEAVIES, SPARSE QTZ MASSIVE TEXTURE, VE LIGHT GRAY (NT) TO YE	RY INDURATED, LLOWISH GRAY (548/1) Total Pages 114	

Ft	Run #	Lithology	Description	Corehole: ORG-393
750	: _%_			Cty., State: ORANGE BURG, SC Date: 5/7/97
			CLAYEY SAND; (SAN	Geologist: D, P20 WELL
			AS ABOVE) BUT	WITH 1-290 =
	:		FELDSAR (UP TO	5mm GRAINS)
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	: -		=	- ≃
		-	D b	
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4 5 6 6 6 6	:]		_	- E
	: - 1		_	FOSSILS: STRUCTURE
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•	OVER			<u> </u>
	2 1			11.
754				
154	73.1			
•	× 1			INDURATION: MINERALOGY
	1			
	, 4			<u> </u>
:	9.5			- .
100	~ 4	6		· 1011
_ :	- 1		5 10 40 10 10 10	
756	• • • • • •		FINING UPWARDS	·······························-
	- 1		LARGE FELDSPARS	
:	4-	- 27 (17 m)	FINER, BETTER SORTE	ED PLAYEN SAND : Z
:	4:	<u> </u>	17,10012, 30,1012 00,101	Taic
÷	7-			
:	1			THAN DESCRIPTIONS.
÷	3		NO RECOVERY	- Z
758 g	4N 95		•	
		530	CLAYEY SAND; (SAME BUT OVERALL FINE	- AS ABOVE)
:		 .	BUT OVERALL FINE	R THAN DESCRIPTION &
	1-		ABOUE)	1010
	7:		, e	
	1.	<u> </u>		: -
	1	** :	MEDIUM CRAY (N5)	70
7/0:	3		OLIVE CRAY (544/1)
760-	38			.1
				Total Pages 114

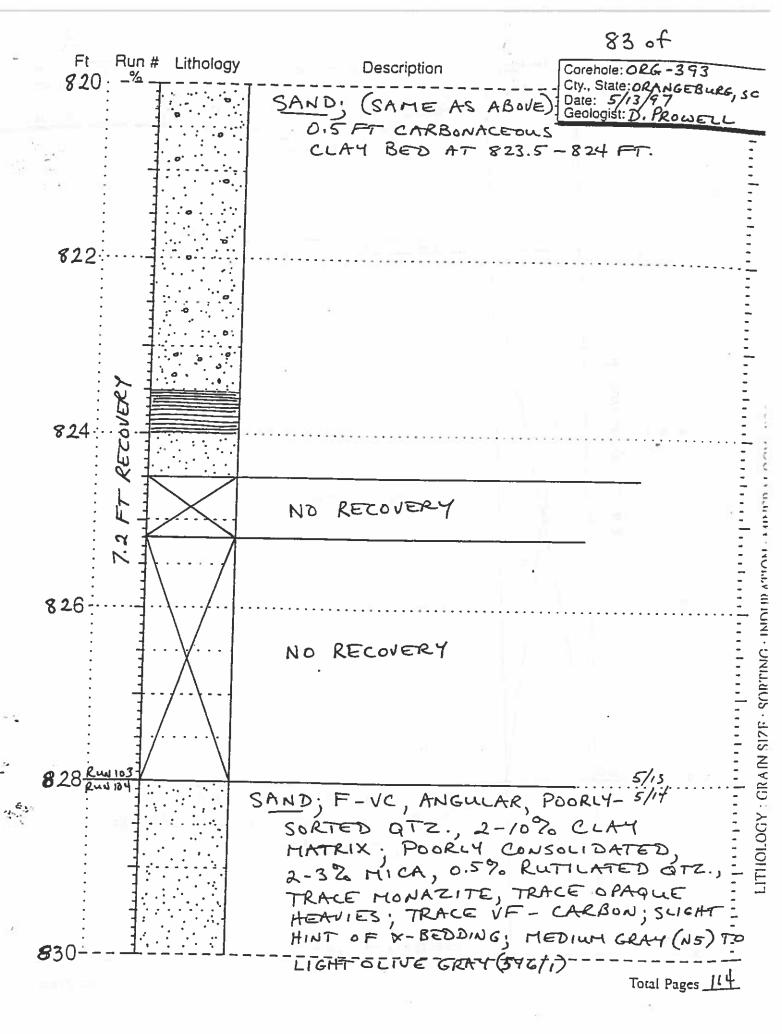
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Ft	Run #	# Lithology	Description	ile: ORG-393	
760	%_	T	Cry., Si	iate: ORANGEBURG, S 5/7/97 iist: D. PROWELL	د
	:		CLAYEY SAND (SAME Geolog	ist: D. PROWELL	
			AS ABOVE) F-M		
	:		SAND IN CLAY MATRIX	:	-
100	: -	1		, · · · · · · · · · · · · · · · · · · ·	_
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				7	: FOSSILS : STRUCTURE : COLOR
	> -				3
	: % :				SSO
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	0				- Ş
	E 25			-	VLO
:			CHANGE	1	. Z
•	田子	**********	SANDY CLAY, VF-F, ANGUL SORTED QTZ. SAND (20%)	AR, WELL :	Z
•	1		SORTED QTZ. SAND (20%	>IN A	- ≥ -:
:	7 بر ع		DENSE CLAY MATRIX (80%), 2-3% MICE	l,ĕ
•	N	\ /	in /	:	.V.
766-		.\/.	•••••	-	INDURATION: MINERALOGY
	Ē	\ /		:	Z
	4	\./		<u> </u>	<u>5</u>
	- 1	X I	NO RECOVERY	:	SORTING
•	4	/-		<u> </u>	. ö
•	3			ĭ :	• •
•	4	./\. [=	3121
	3	/ \		1	2
768£	4296-Y			<u> </u>	ITIIOLOGY : GRAIN SIZE
	11000		TRACE OPAQUE HEAVIES;	CRUDELY :	0
:	#		BEDDED WITH EVIDENCE	of K0013/=	ζ
:	1		FRACTURES; CARBONACEOU	S HATTER :)LC
	1		IS COMMON.	1 <u>1</u>	. 🖺
:	E				
:	<u> </u>	• • • • • •		1	
•	1	N		:	
770-			OLIVE GRAY (544/1)		
L ====				Total Pages 114	,

THE SAND; F-VC, ANGULAR, POOKLY SORTED QTZ SAND IN 1-5% CLAY MATRIX; 1-2% MICA,	
TT4 BAND; F-VC, ANGULAR, POORLY SORTED QTZ SAND IN 1-5% CLAY MATRIX; 1-2% MICA,	n 📕 .
TT4 DE CONTRET NO UNE SAND; F-VC, ANGULAR, POORLY SORTED QTZ SAND IN 1-5% CLAY MATRIX; 1-2% MICA,	COLO
	INDURATION; MINERALOGY; FOSSILS; STRUCTURE; (
776	NDCINI
NO RECOVERY	SIZE: SORTING:
778 RUN 98. 170 RUTILATED QTZ, TRACE MONAZITE, TRACE OPAQUE HEAVIES, TRACE LIGNITE (FRAGHENTS UP TO 15mm), TRACE FELDSPAR, VERY POORLY CONSOLIDATED; MASSIVE;	LI HOLOGY : GIKAIN
780 LIGHT OLIVE GRAY (546/1) Total Pages 114	

				79 of
Ft	Run #	# Lithology	Description	Corehole: 6RG-393
780	%_		- Description	Cty., State: DRANGEBURG, SC Date: 5/7/97 Geologist: D. PROWELL
, -0			CAND. (CANA AC	Date: 5/7/97
		7.5	SAND; (SAME AS	Geologist: D. PROWELL
	:		ABOVE	
25	•		700,0	:
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- 53	:	1]	B = -
	•]		<u> </u>
				_
				- 9
700				COLOR
782			***************************************	·····
	:			FOSSILS: STRUCTURE:
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700	α.	_ / \ 1		
786-	7		************************************	INDURATION: MINERALOGY
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7908	2 un 98			
788	- PP uus		C) 15 = 10 1 10 10 5	RAPRT 5/13/97 - 0
:			SAND; F-VC, ANGULAR,	
			D. O. V. SOUTED OTT.	SAND: 2% MICA, = 0
	3		700,00,000	SAND; 2% MICA, DOTOLLING HEAVIES,
•	_₹.		TRACE FELDSPAK, I	
•	3		OTZ. TRACE OPAQUE	E HEWIEZ : E
	-		TRACE LIGALITE ! 1-	5% SOFT CLAY : -
:			I KACE LIGHT	(5 mm) LOCAL =
:	₫.		TRACE FELDSPAR, 17 QTZ., TRACE OPAQUE TRACE LIGNITE; 1-1 MATRIX; 1% GRAVEL	
790:	1	_	III/o (30 mm) CI/KBOWACE	المنا المناه
110-	= =		LAYERS; MASSIVE, PO LIGHT OLIVE GRAY (ORLY CONSOLIDATED. 1
			LICATION US CONVI	(FULL) Total Pages 111
			LIGHT ULIVE GKAY	3 (4/1)

		7					80 0	7	
Ft	Run %.	# Lithology	, and the second second	Description			Corehole: OR	6-393	
790	1/2 .	T. 7. 7. 7. 7.	.7				Cty., State: OR Date: 5/13/ Geologist: D.	ANGEBURG	sc
			SAND	(SAME	AS	ABOVE)	Geologist: D.	PROWELL	
						1			-
	***								-
	•]							-
	•		:						-
jo			:					40	- 6
700									= 5
792			CARB CLAY			*******		*********	<u>~</u> _ }
16		100000	5] [
		3000 e 170							- ا
	>	600	•]						1 6
•	X								- i
:	7	7							- =
	40		1						11111
794:	RECOVER		5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
			3 LIGNITIC					•	
•	6								1 - 1
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	2.6		-						_ Z
•									- Z
<u>:</u>		20 17							1.10
796-				131.18180.					NDURATION: MINERAL OCY
	5		NA PT	COVER	7	1822 1	100000000000000000000000000000000000000		
	3		NO RE	.Cover-	1				- 30 -
•	3								: 2
ĵ.	M 100-								T-1 SOR
	-		SAND; SORT	F-VC,	AN	GULAR	2, POOR	LY -	1 6
•	4		SORT	ED (SA	ME	AS A	BOVE) E	XCEPI	SIZ
	94		DECK	REASED	LIG	NITE	CARB.	CLAY	<u> </u>
798£	44) 7/17 4 4/17 -								LITHOLOGY : GRAIN SIZE : SORTING
				4.4					- 1. - ≻
:	4								1 50
:	3	y 107 y 100							- 0
	寸								T E
:	1				586				
•	3								-
800									-
000-				5				ل ال عدد الما	
				8			lo	tal Pages <u>11</u> 낙	_

Total Pages 114



6	L.		84	of.
Ft 930	Run #	Lithology	Description Corehole: 0	RG-393
830			SAND: (SAME AS ABOVE) Date: 5/1 SPARSE GTZ. GRAVEL (UP TO GMM)	PROWELL
010			LIGHT OLIVE GRAY (546/1)	:
832	٠ ١			1.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5
834	=T RECOVERY			
836-	3.97		NO RECOVERY	
•		2.5		
	1111			Terriburitan
838	N 102- :		SAND; (SAME AS ABOVE)	············
	<u>.</u> .		EXCEPT FOR AN INCREASE	1 200
:			IN VF-CARBON.	richterin.
840			MEDIUM GRAY (N5)	·
			т	otal Pages 114

	un # Litholog		
830		SAND; (SAME AS ABOVE) Date: 5/14/97 Geologist: D. PROWELL	اک ر
	10.10	LIGHT OLIVE GRAY (546/1)	-
	1		-
852		·/ ·	-
į	4\		-
:	- -		_
			-
RECOVERY	1 //		-
RE	1		
Ţ		NO RECOVERY	
3.3	1 / 1		. :
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856			- [
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:	4/	<u>=</u>	ייימניי
:	<u> </u>		. 3613
858 <u>Euniol</u>			A FNI O
RUNIO		SILTY CLAY; 10% SILT IN 85% CARBONACEOUS CLAY, 5% VF-F WELL-SORTED QTZ SAND -	י אי
		IN THIN (1-3 MM) LAYERS; COMPACT AND - WELL LAMINATED, 3-4% MICA, 2-3% LIGHTE,	เริยเกิ กร
· · · · · · · · · · · · · · · · · · ·		SILTY CLAY; 10% SILT IN 85% CARBONACEOUS CLAY, 5% VF-F WELL-SORTED QTZ SAND IN THIN (1-3 mm) LAYERS; COMPACT AND WELL LAMINATED, 3-4% MICA, 2-3% LIGNITE, Adden 1% PYRITIZED WOOD AND GRANLLAR PYRITE; 859 SLICHTLY INCLINED BEDDING; RAYC. DARK GRAY (N3) (CONTACT/NO UNC.) SAND (SEE NEXT PAGE)	LITH
į		SAND (SEE NEXT PAGE)	
860			

Ft	Ruc	n # 1	Litholog		8107	
860	. 0/	≀# . \- 	Litholog	Description Cor	rehole: ORG - 3	93 ERU24 5
		<u> </u>	Sac :	SAND; F-VC, ANGULAR Ger	te: 5/14/97	ource,sc
		1:		1 100000 012:		
		1:		: 1-2% MICA, TRACE OF	PAQUE HE	AVIES.
8.6	9	7		TRACE RUTILATED 9TZ	, TRACE	- 1
	:	4:		YEZLOW QTZ., TRACE C	CARBONG	(F)
	•	:		MASSIVE TO WEAKLY-	BEDDED	, -
862	<u>)</u>		=	LIGNITE AND PYRITIZE	ABUNDAN.	T
	•	1		FROM 845 TO 867 F		
		7		FRAGMENTS ARE UP T	0°50 mm.	
	•	4:			,	
		1:				≈ – ₹
		∄ ∴	0.51			
011	: &	1:.				ייטמ
864			- 001			· · · · · · · · · · · · · · · · · · ·
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	L -] : : :	ρο	20		- 2
	. 4	1. :	. 0	& PYRITE		: î
:	4		C.*			 VITIO
8 6 6-	6]	**.*	***************************************		
•			L	The second of th	= 1	I GNI
:						 NG :
•		=				SORTING
:	4		6 P 0	3 PYRITE LIGHT OLIVE GRAY (546	(1)	so
•			./.	No Properties		1 t
	WALID 7-			NO RECOVERY		: N3
868	41108	• .• .		SAND; (SAME AS ABOVE)	2	TTHOLOGY : GRAIN SIZE
	1			DIFEALL COARSER GRAM	NED.	3.X:
•	4.	• • •		OVERALL COARSER GRAIN SPARSE QTZ GRAVEL (UP	70 4mm)	7070
•	4					1.1. OHT
:	-	• . : .				
:	1		370	LICHTOLIVE GRAY (546/1)	70	-
870-		3	L	HEDIUM GRAY (NS)		7
= 1					Total Page	s 114
					.0.2, 1.250	·- <u></u>

				80 61	
Ft	Run #	Lithology	Description	Carehole: ORG - 3	93
870	: -% -		7	Cty., State: ORANG Date: 5/14/97 Geologist: D. PRO	EBURG SI
	: 4		SAND; (SAME AS	Geologist: D. PRO	west (
			ABOUE) BUT INCRE	EASED %	25.25
	: :		RUTILATED QTZ. A		ED :
20	: -		LIGNITIC MATERIAL		=
61 6	.				-
	-	43 23	.}		=
•					-
872					
•	3.		1		
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:	3				-
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874:			***************************************		. 6000 - 0
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•	(a)			1	- :
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•	RECOVERY		\sim		- :
*	X 1				= = =
*			g •		- 1
876	4]				= =
670:	ω :		OLIVE GRAY (544/1)		· · · · · · · · · · · · · · · · · · ·
	W T	/			
9.59	1				CHILLING
92.5	4				
işr.	3	X		•	
34	4.,	/			11.1
10	1/				: 2
878 Ru	N 108				TITTE
, Ku	~		SAND; (SAME AS ABOVE)	
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	1.) DC
	1:				רוגווסויספא
:	1				= = =
:	- 1 : 3'				-
:	3::	500 K			-
880	1				· -
				Total Pag	es 114
				9	

4.

				70 5	
Ft	Run #	Lithology	Description	Corehole: OLG-393	
880	: - 4 7		T	Cty., State: PRANCEBURG, SC	
	; 1		SAND; (SAME AS ABOVE)	Cty., State: ORANGE BURG, SC Date: 5/14/97 Geologist: D. PROWELL	
	: -]			23.7.7.7.7.7.2.7.2.2.2.2.2.2.2.2.2.2.2.2	ı
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886-	· · · · · · · · · · · · · · · · · · ·		••••••••••••	· · · · · · · · · · · · · · · · · · ·	
	- }⋅	2			٤.
•	4. *			<u>. </u>	2
•	1.	• • • • •	DLIVE GRAY (544/1)	1	=
:	1/				7
	3				
•	4.		NO RECOVERY		2
					-
888 £	INIID -	}		5/14	5
	#:		SAND; (SAME AS ABOVE)	5//3	93
:	_		LARGE LIGNITE FRAGME	75 = Š	į
•	= ==		FROM 888-889 FT; P	YRITIZED ===	}
:	1-		LIGNITE (K3 mm) AT 88	39.5 ET	:
•	3		SANDER	YRITIZED ST.	1
•	4 ; .		QTE 1-29 MICA TRACE RUT	TILLY SORTED,	
] ⊹	- : ; .	TRACE YELLOW GT'Z, TRACE PL	IRITE, THINKY	
890			SAND, F-M ANGULAR, MODER QTZ, 1-29 MICA, TRACE RUT TRACE YELLOW QTZ, TRACE PU BEDDED WITH HORE OR LESS CL SHOTO CARBONACEOUS CLAY MAN	PIX (MARINE?)	
0.0			<u> </u>		
				Total Pages 114	

, Ft		# Litholog	Description C	Forehole: ORG-393
890)% :	T	SAND (SEE PREV. PAGE);	ity., State: ORANCEBURG, S late: 5/14/97 seologist: D. PROWELL
	: -		EVIDENCE OF LOW -ANGLE	
	÷			
- P]	MEDIUM DARK GRAY (N4)	et/No une.>
		2.3	SAND; F- VC, ANGULAR, PO QTZ., 120 QTZ. GRAVEL (ORLY-SORTED :
892	:	10 =	IN LOWER FOOT; 1-2%	
812	. 8		RUTILATED ATZ, TRACE F	YRITE, TRACE -
	10		Pollen OPAQUE HEAVIES, TRAC	E YELLOW :
	202		1892.6 QTZ., LIGNITE CONCENTER PRAYC. 892 FT.; 5.	-10% CARBONACEON
	Re		CLAY MATRIX; EVIDEN	CE OF CRUPE -
			X-BEDS;	
894	4			
0 1-1	ملار	an mara		271186 1875 1884 1884 1884 18 E
	3		OLIVE GRAY (574/1)	NTACT/UNC CAPET
•	Ru		DENSE SANDY CLAY , 20-	30% M-VC,
:			ANGULAR, POORLY SORTE IN 65-70% DENSE CLA	MATRIX.
•	0	#200 Dell	1-270 MICA, TRACE RUT TRACE WELL-ROUNDED	TILATED QTZ.,
896-	6		TRACE WELL-ROUNDED &	BACKFILLED
3 70 .	4		ROOTS/FRACTURES: VEX VERY LIGHT GRAY(N'8).	Y COMPACT;
S .7	* -			. 1
_	un 110-		NO RECOVERY	
ج :	4 H An		CLAYEY SAND; (SAME AS A EXCEPT SAND % INCRET	HBOVE)
•	=		EXCEPT SAND % IN CRET	ASING WITH
898:			DEPTH. TO ABOUT 900 F FELDSPAR, TRACE F-G	RAVEZ (UP TO 2HM)
		3 I I	VERY DENSE AND COMP	PART.
1 3	1	<u> </u>		11.00
	4.			NEW TOWNER.
•	-	•		
•	₫.		FINER	= =
900		°. · :]	I VERY LIGHT GRAY (NE)	CONTACT/NO UNC)
				Total Pages 114

	1			91 0+
	Ft 90 0	Run	# Litholog	Description APPROX. Carehole: ORG - 393
	100	:		Description APPROX. Corehole: ORG-393 CONDET/MODELLY, State: ORANGEBURG, S SAND; F-VC, ANGULAR, Date: 5/15/917 Geologist: D. PROWELL
			-	POORLY-SORIED GIZ.
	2.	:		SAND, 5-15% CLAY MATRIX, 1-2% MICA, TRACE RUTILATED
		:		1-22 MICA, TRACE RUTILATED
		•		QTZ., TRACE LIGNITE, 170 F- OPAQUE
	•	•		HEAVIES; TRACE F- QTZ GRAVEL : (UP TO 3mm); MODERATELY TO
	902	÷	2.2.2.2.2.	POORLY CONSOLIDATED; GRAY
	•	•	- 1	COLOR SUGGESTS FINE CARBON :
	•	,		IN CLAY MATRIX, GRAIN SIZE
		٠ ـ		GETS COARSER WITH DEPTH.
	:	X		Sold Control of the c
	•	76	5	
	5	زر	0	<u> </u>
	904:	Q -		1.0.000
	:		2007	<u> </u>
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	:	6		
	•	3		Ī
	•	\$ 1		· · · · · · · · · · · · · · · · · · ·
	000		3.5	OLIVE GRAY (544/1)
	906-	.0.1	·····	
		× 1	\ s ² /.	
		=		,
		크	\	NO RECOVERY
	-	4		· · · · · · · · · · · · · · · · · · ·
	:	4	./	
2.0	ang Ru	- III W	<u> </u>	
	TOORU	NIIZ	82	SAND; (SAME AS ABOVE) BUT
		Ę		COARSER WITH DEPTH; 10-15%. QTZ GRAVEL (L5mm) FROM 909
	2		:aFC	QTZ GRAVEL (L5mm) FROM 909
		7		COARSER WITH DEPTH; 10-15% QTZ GRAVEL (L5mm) FROM 909 TO 910 FT.
	÷	1	.0.	
		7	5	FINER
	910			(CONTACT/NO LINE)
				Total Pages 114

			92 of	
Ft 910	Run %.	# Lithology	Description Corehole: ORG - 393	
1.0	: ^ <u>L</u>		SAND, F-VC, ANGULAR, Date: 5/15/95 Geologist: D. PROWELL	,5C
3			. 100/201	
:	•		QTZ. SAND, 5% CLAY MATRIX; 1%	1
			MICA, TRACE RUTILATED QTZ.,	!
•			TRACE OPAQUE HEAVIES, TRACE	
:		1	LIGNITE; POORLY CONSOLIDATED,	9
912	• • • • • -		MASSIVE, FAINT SIGNS OF X-BEDS,	35
			15 mm PYRITE-CEMENTED SAND	c
:	= 3		NODULE AT 915.3 FT.	الالا
:				214
=:	-	_ =		ا ا ا دسا
₹:	\ II =			0 110
	201		TET AA 22 S	ا ا ا
914:	1/6	A +4 1		. . - -
	22			100
:	8			v al:
	1/4		= × 11 = 9-2	- I
•	4	ض رم	3 PYRITE	Ž
:	8.3	F 27		יוי
916-]		54611	 /2IC/
:	1	: .:: ::	LIGHT OLIVE GRAY (574/1)	ON!
		\		NG:
656 565	1			RTI
•	= 1	X	NO RECOVERY	: SC
:	4	/		SIZE
	1112-			NIN S
918 Rui	N113 .		SAND; (SAME AS ABOUE), POORLY	GR⊅
	O(CE)		CONSOLIDATED, SPARSE 5mm	37
	1.		QTZ GRAVEL; SLIGHTLY COARSER	ITHOLOGY : GRAIN SIZE
===	<u></u> - 1.		WITH DEPTH.	THC
-:	1.			
= :]			
920				-
			Total Pages 114	
			.	

Ft 920	Run #	Lithology	Description	Corehole: ORG-393
720			- N. 15	Date: 5/15/97 Geologist: D. PROWELL
912]	0	OLIVE GRAY (544/1)	PAID LAIR LAIR
924	FT RECOVERY		CLAYEY SAND, F-VC POORLY SORTED QT 5-10% CLAY (DENSE 2-4% MICA, TRACE TRACE RUTILATED Q VF-OPAQUE HEAVIE LOCAL PYRITIZED NO VERY DENSE/INDU % AND GRAIN SIZE 1% C-VC WITH DEP GRAVEL AT BASE	FELDSPAR, FELDSPAR, TE, TRACE S/LIGNITE; DUCES (UP TO 15mm), LATED, FELDSPAR, INCREASES TO TH, GMM QTZ.
926	0		***************************************	
928 Rus	1113	F	NO RECOVERY	CRALMET /NO MY CALL CONTRICT INTERIOR I
930			CLAYEY SAND. F-VC, A POORLY SORTED QTZ. 5-10% DENSE CLAY MA 170 FELDSAAR, TRACE TRACE OPAQUE HEAVIES VERY DENSE/INDURA 12 MM QTZ. GRAVEZ/6 MM LIGHT OLIVE GRAY (54	FELDSPAR, ROOTING,

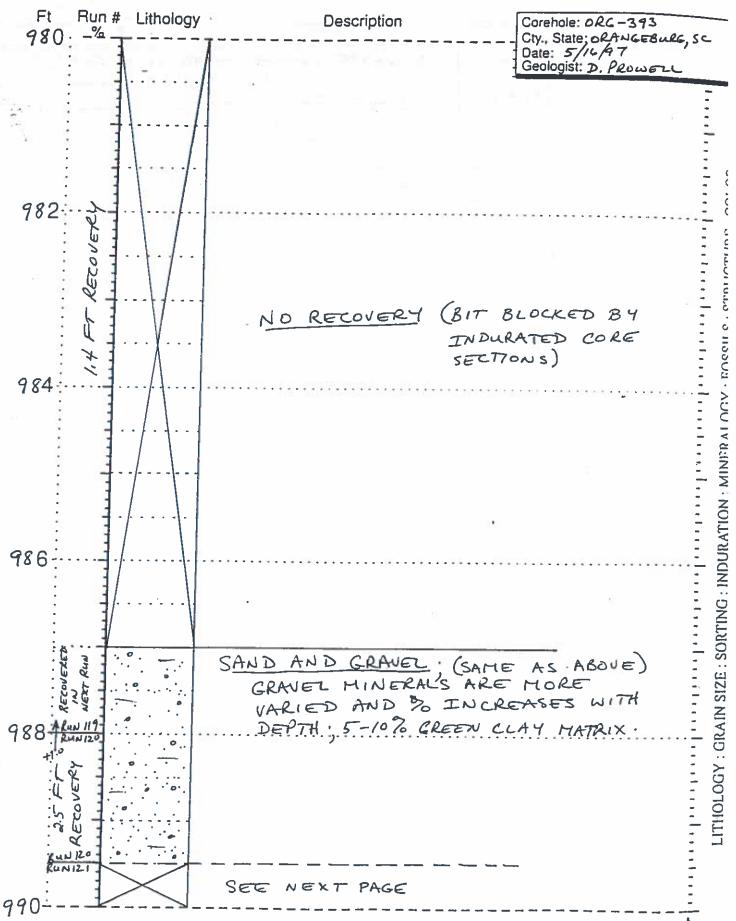
			7	94 05
930	Run #	Lithology	Description	Corehole: DRG-393
100			CLAYEYSAND : (SAME	Cty., State: ORANGERURG, S Date: 5/15/97 Geologist: D. PROWELL
			AS ABOVE) BUT	Geologist. D. PROWETC
10 a		N	WITH TRACE MONAZI	TE, INCREASE
			IN FELDSPAR TO 27	
		· · · · · · · · · · · · · · · · · · ·	INCREASES WITH DE	PTH BASE
:	4		1.5 FT OF SECTION	N CONTAINS
932			10-15% GRAVEZ (R)	
132	3		up TO 15 mm, RD. F	ELDSPAR UP
	- 1		TO 12 mm, RUTILAT	ED QTZ. UP :
· ·	4		To 4 mm)	-
	4			•
•	4			× 1
:	× 3			:
	- 4			_ _
934:				
			1 = 00_ 4804 0 0 10 0	
	4.			
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= -:	- 1,	0.00		- 'u - :
- E2	10			:
			FINER	-
936			· 🖟	
:			L	NO UNC)
:	4.		CLAYEY SAND GRADING	
•	= # :.		TO SAND AND GRAVEL	
•	- - - - -		ANGULAR, POORLY SO	
•			SAND, 2-3% MICA, 1	
•	1.7		TRACE RUTILATED GTZ	AND OPAQUE :
938 Ru	W114	\times	NO RECOVERY	
i o kui	-:		HEAVIES; 2% GRAVEL	(10mm QTZ .: -
•	4.6		6 MM FELDSPAR) IN BA	ISAL O.S FT.
:		-	VERY DENSE AND I	NDURATED;
:	4		VERY POORLY BEDDE	D; (:
	∄:	0. 0	LIGHT OLIVE GRAY (546/1) T	0
	0.		_ OLIVE GRAY (544/1) _ (CO	NTACT/NO MAIO
40.0]:		CLAYEY SAND GRADING	C.P.AVEL . Co-
940	- 귝 :.		CLAYEY SAND GRADING DOWNWARD TO SAND AND NEXT PAGE	GETWEL, (SEE :

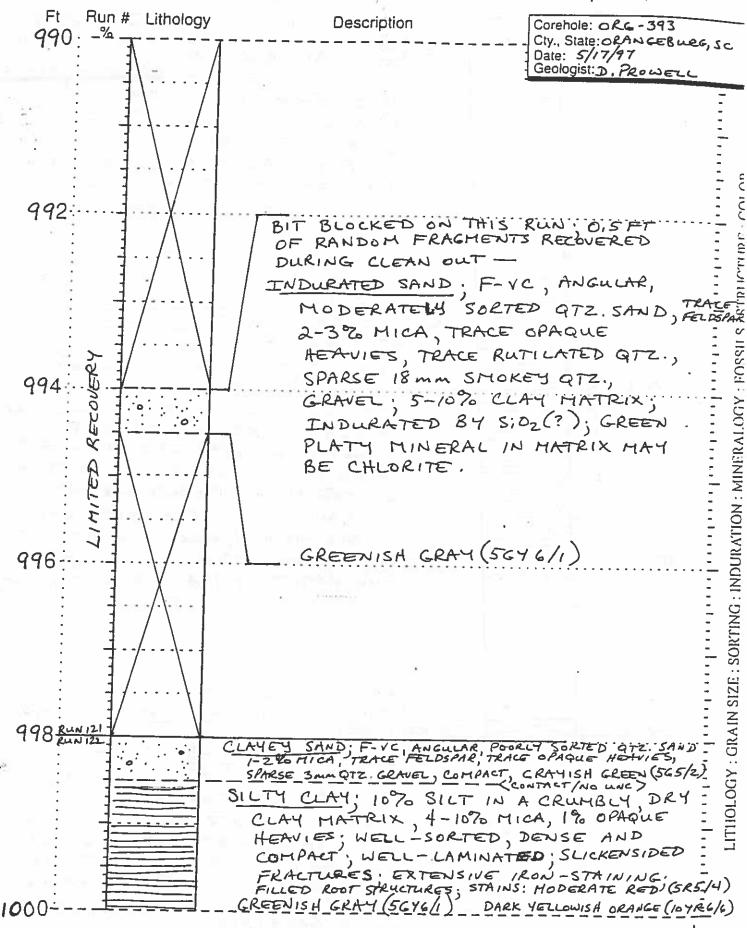
			I_{11}	95 ot
Ft	Run #	Lithology	Description	Corehole: OPG-393
940	_%_	T		Cty., State; ORANGEBURG, SC. Date: 5/15/97
19=			. CLAYEY SAND GRADING DOWNWARD TO SAND AND	Geologist: D. PROWELL
			GRAVEL (SAME AS SE	
			EXCEPT BASAL GRAVE	I IS 6mm QTZ =:
	- 1		AND 3mm FELDSPAR	
	1	0 0 0	LICHT OLIVE CRAY (546	- 0
:		00:0:0	TEDIUM GRAY (NS) /CONTI	ACT/NO LINE.
	3		CLAYEY SAND GRADING D	
942:		<u> </u>	TO SAND AND GRAVEL	(SAME AS
•	3		SEQUENCE ABOUF)	<u> </u>
:	- 4			: (
+:	3			= 1
•	4	• • • • • • • • • • • • • • • • • • • •	FINEL VIOL LOUT COAY (NO)	-
•	3	<u> </u>	1 VERY LIGHT GRAY (NE)	NTACT/NO. UNC.
:	E	100	CLAMEM SAND GRADING	Sr
•	1		DOWNWARD 18 VC-1	- C
944:-		· . <u>eli</u> e	AND GRIT; (SAME AS	ABOVE) BUT
300	4	—	W/O COARSE GRAVEL	= }
	3			= 3
	4		FINER	- <
÷	4		1 VERY LIGHT GRAY (NE)	
:	4.		CLAYEY SAND GRADING	JACT/NO. UNE.
•	3		DOWNWARD TO VC-Q	TZ SAND AND - 3
	3.		CRIT! (SAME AS ABO	IVE) BUT WITH = ?
946-			EVIDENCE OF KOOTAN	G/HLLED :
1 10 %	3		FRACTURES AT TOP,	
•	- 1:	104	RUTILATED QTZ IN	LOWER POOT
	3			· <u> </u>
0.00	1 :		VERY LIGHT GRAY (N8)	SORTING
•	1			— ·
	=		0 - 0 - 0 - 0 V	SIZES
	3		NO RECOVERY	- 18
adoRu	N 115-			GRAIN
740 Ru	4 116 - :			
	4			*
•	1		FINEL	1- 50
	-		1 VERY LIGHT GRAY (NE) CONT	- 10
:	7	1:1:1:1	CLAYEN SAND GRADING DO	ACT/NOUNE > 1- IIII
¥.,]			E AS ABOVE)
**	1-		WITH EVIDENCE OF ROOT	TNG/FILIED -
0.50	1		FRACTURES AT TOP; (30 m	in QTZ
950÷-			AND 5mm FELDSPAR GRA	MET WI RASE.

1,						9	6 ot	
- Ft	Run# (_ithology	Des	cription		Corehole:	ORG-393	
950	: -%		7			Cty., State	ORANGEBUR	4, SC
	: <u></u>		CLAYEY S			Date: 5	7/15/97	
	: 4:	= -	7.1	ARD TO			D. PROWELL	
		· ·	AND GR	LAVEL ;	(SAME	AS AB	OVE) BUT	-
	1:		WITH C	ARGE G	RAVEL	(<30 mi	~) NEAR	=
¥0. 2			BASE					-
	<u> </u>	ī -						-
2	: 1:							- (
050		·						(
952		0	3 12 mm RED CRUP	TOCKYSTALL	INE QTZ.	CRAVEL		
•].							- <u> </u>
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:	V]							: ≧
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:	6 F.							<u>-</u> <u>=</u>
	0 ::	3.55						: z
:	7 7 120	1500						- 5
a = 0 :	∃					3 h		 R.Y.
<i>95</i> 6		.e. 65 3	<30 mm. QTZ. GR	twier (SHI	okey .915	<u></u>		' I ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
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1900] ; -							S
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958 Ru	الماله الماله			19. 19		CONT	ACT/No maio	N W
. J J Ru	WILL		CLAYEY SA	AND AN	D GRA	VEL	F-VC	<u>- 5</u>
] .	*	ANGULAR	POOR	4 SOR	TED ?) T7	
			SAND W	iTH 5-	10% C	CAVEL	QIZ. UP	T1101.0GY
-4 -	1 0.		TO 15 144 44	FELD	SPAR W	0 770 14	1 4000	<u>-</u>
:	1.0.0		TO 15 mm IN 5-10%	CLAY	MATRI	x : 2-3	% MICA	- =
		0	TOACE	PAOUE	H-EAUIE	=5 170	FELDSPAR	₹. ┛
Jr. 10 🗎		. 0 . 4	Teles 4	TALD WITT	INDU	RATED	, MASSIVE	2
940			TENSE /	المراجع المساور		[/ = / S	•
760			100 ALTOR		1 OLIVE	GRAY.	(5 Y 6/1) 962.5 Jotal Pages 114	<u>-</u>
			DARK YE	Tromish	ORANGE	(10 Y R G/G	Total Pages 114	
						/-	, 	_

	1			97 ot	
Ft 960	Run #	Lithology	Description	Corehole: ORG-393 Cty., State: ORANGE BURG, SC	_
	Τ'.,		CLAY SAND AND	Cty., State: ORANGEBURE, SC Date: 5/15/97 Geologist: D. PROWELL	
			GRAVEL , (SAME AS		
		-	ABOVE); 25 mm CLAY AND 961.5 FT. , MUC		•
	-		MATRIX (LOOSELY C	LONSOLIDATED) :	•
:	-		IN LOWER FOOT L	OWER FOOT HAS :	۲ د
012:			10-20% CRAVEL (GRA	_	2
962	-	-	WHITE QTZ	12.40.10.1.	. G
		•		<u>.</u>	ידירום
P# :	1			:	0110
;	1			£	. CT
:	2				S 113
	37.6			-	FOSCI
964	, K.		***************************************		ج
-	4			<u>:</u>	AT O
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	4			-	Ψ̈.
÷	6 1	0		<u>:</u>	NO
:				2	RAT
966	••••			·····÷	INDURATION : MINERAL OGN
:	4				1969
:	<u></u> .			:	SORTING
:	-			i i	SOI
:	<u></u> .	0			IZE
				•	S N
968 Ru	M118-		FINGR		GRA
	#_		LIGHT OLIVE GRAY (546/1)) altes Talonials	ΩY:
•	1		CLAYEY SAND GRADIND D	OWNWARD) / 0
:	1:		TO SAND AND GRAVEL. MODERATELY-SORTED	F-M, ANGULAR =	LITIIOLOGY : GRAIN SIZE
:	1.		CRADING DOWNWARD	TO F-VC SAND:	
:	1 .		TO F-VC GRAVELLY SI	AND; 2-4%, MICA;	
970	1		170 FELDSPAR, TRACE		
			2.5	Total Pages 114	

				98 0+
Ft	Run #	Litholog	y Description	Corehole: ORG - 393
970	4 -		LIGNITE CONCENTRATIONS	Cty., State: ORANGEBURG, SC Date: 5/16/97 Geologist: D. PRODELL
_ 1 = -			: AT 969.5 (450mm);	Geologist: D. PROWELL
***		0.00	TRACE OPAQUE HEAVIES	DENSE AND :
	<u> </u>	0.0	WELL-INDURATED FAM	UT EUIDENCE .
		-	OF X-BEDDING , MEDIUM	LLIGHT GRAY (NG) -
:	4		GRAVELS INCREASE TO	10-15% BEZOW :
•	-		971 FT. (QTZ. UP TO 10	mm; FELDSPAR
972:		0	UP TO Gmm).	· · · · · · · · · · · · · · · · · · ·
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+		0 -		
30	1		·1	- 5
	- 1		;	- E
•	4			<u>.</u>
•	7	0 1	•	1 10
974.	E. 3.	1.50 (1.50) 1 3.50 (1.50)	·	<u> </u>
	20 1			
=. :	FU	<u> </u>		
:	Q 1	· •		
	h - j.		-	
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:	\(\frac{1}{4}\).			
070	61			וואא
976	···			- L
:	1.			- 4
•		0 0 0	FINER	CLM15H Z
•	10.	0%	MEDIUM LIGHT GRAY (NG) CO	CLAMISH NIEWOS
•			SAND AND GRAVEL . F-	C. ANGULAR COET
•	4.		SAND AND GRAVEL . F-	TO F-VC QTZ IS QTZ UP TO 18 mm; YEDSPAR UP
ii		6 .	GRADING DOWNWARDS	70 F-VC Q12 : X
978 Rus	1119		AND GRAVEL (RUTILATED	QTZ UP TO 18mm; - &
:	1.	· · ·	GRAY QTZ UP TO 9 mm;	FELDSPAR UP
•	1		TO 8mm). 3-4% MICA, TRACE OPAQUE HEAVIES, INDURATED; COKE BOTTLE	WELL SPAR, SONO SEE GREEN CLAY
•	1.		INDURATED COKE BOTTLE	E CREEN CLAY
•			MATRIX (5-10%).	_ _ _
:	1	/	GREENISH GRAY (5GY 6/1	
•	1	\/	NO RECOVERLY	- I
980				
1.6				Total Pages 114
				· • • • • • • • • • • • • • • • • • • •





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Ft	Run	# Lithology	Description	Corehole: ORG-393
1000				Civ. State: ORANGE RUPE CO
7000		· · · · · · ·	SAND, F-VC, ANGULAR,	Date: 5/17/97
			SIMB) I VO MAGACETTO,	Geologist: D. PROWELL
			POORLY SORTED 972.	1-01V 187 5
19	÷		SAND; 5-10% CLAY M	TATRIX; 16+-C =
2.1		A	GRAVEL (UP TO 12 mm)	, 5-10% MICA :
m v	•	7	GRAVEL (UP 10 12 MILL)	= 1/0-507 HILL) =
0.5		0	(LOCAL O.I FT BEDS AR	= +0.3000 MCA() .
		1 7 1 7 1 7 1 7 1	170 FELDSPAR, TRACE WELL INDURATED AN	OPAQUE HEAVIES :
		<u> </u>	I THOURATED AN	ID DENSE :
		10 : 7	MELL TIME	
1002	Ç.,	4		
1 = 3 =	•	=0 to	50 (2)	
		50.0	-	- 4
				- 1
	•			÷ 5
	•	٠	OLIVE GRAY (544/1)	
	•	7 		3 - 12
8		1	CLAYEY SAND GRADING I	
			INTO SAND AND GRAVE	FL F-M
25		1:	LA LA MARGATE	Y 600 TEO 077
أعمما	2		ANGULAR, MODERATER	4 SURIED WIZ.
1004	· · · // · ·		SAND IN 5-10% CLA	1 MATRIX
	Š		GRADING DOWN TO F	-VC, ANGULAR = 5
	2		POORLY SORTED GTZ	SAND AND
	W.	7	POORLY SORIED 41-	FELDSPART &
	A.		GRAVEL (12 mm GRAY Q	
:	L -	1111	5-10% MICA (LOCAL O	I FT BEDS ALE
			40-502 MICA), SPAR	SE GREEN : ?
		7	40-3020	2
:	00 -		VC-SAND/GRAVEL GRA	FINS CONCORTIE
·	0		IN QTZ MATRIX? / MICRO	CLINE TEXTURED : : ?
1006-	604.31	2 2 2	GP TO 3 mm); MASSIVE	
7000				
	-	700 000	INDURATED; LOCAL	TRON STATIONAS; = E
3.0		100		<u> </u>
		٠,٥		<u> </u>
•				<u> </u>
	_		51.65	os so
32	1	3 (12) ·		
:			GRAMISH GREEN (106451	´z)
			STAINS! DARK YEZLOWISH	DOANGE (104R6/6) = 9
			NO RECOVERY	
1008景	MN 123.			
			CLAYEY SAND AND GRAV	EL F-VC
3=	\exists		ANGULAR, POORLY SORTE	Datz SAND : >
	7		MINGROTH, TOURS	D QTZ, SAND
	7		IN 5-10% CLAY MARI	102
*	- 4		GRAVEZ (12 mm QTZ.);	5-10% MICA, - =
	- 1	~ · · · · · · · · · · · · · · · · · · ·	(LOCAL THIN BEDS CO	NTAIN 20-25% : 5
1	4		(COCKE 11110 10203 CB	TUATENATO
:	4		VC-MICA), TRACE RU	0 0 0 = 000
	1	3 2 3	TRACE YELLOW GIC., 1	RACE OPA QUE .
1010			HERVIES: WELL INDU	RATED MASSIVE :
1010			OLIVE GRAY (544/1).	
				Total Pages 114
				\$145, 100 to 1

Ft		Lithology	Description		Corehole: ORG - 393	
1010): -@- =:		I CLAYEY SAND AND		Cty., State:offineesure Date: 5/17/97	۵,5 <i>ح</i>
			GRAVEL , (SAME	A-9 1	Seologist: D . PR مندية	ن
			ABOVE)	,,,,,		
4.1		10 d 4	NOGVE)			-
1747	: -		1			-
		G				-
	: , -	777	 	-CONT		-
33	: \$		P SANDY CLAY GRAD	NG DE	WNWARD	- \$
1012	\cdots \bigcirc \rightarrow	业中	TD. CLAYET SAN			- 6
	. 6		F-M, ANGULAR,			1.53
	: 👸 🖠		QTZ. SAND (40%)			
	: V]		WAXY CLAY MA			7
	: / 4		19 FT DSPAR	PARE	PUTUATON,	- ŧ
			1% FEZDSPAR,	IL-AIII	EX 19- CRAVE	ンニ き
	: 4		COTZ LAP TO 8	\ < \(\cap \).	es, 170 GRAVET	
55			(QTZ. UP TO 8mm (23 mm) RESETT	BUNG	CADE EMP	١٠١
1014		0,000	3 CARE FEAR SEDIMENT CLAST	20106	OFF FEAR	1 21
	3.	 -:	ARE PRESENT A	T 1014	ET . EVIDOR	· · - >
:	4		OF CLAY-FILL			
:	1.		FROM 1011.5 TO		,	V ~:
g	UN 123		OF LARGE CARBO			MINFRA
, i	un 124]		ROOTS AT 1015			_ <u>_</u>
S	3	• -	STAINED WITH			- Z
	_ Çındı			-		- 1
1016-	\$ -1.		FT. OF SANDY			285
1010	13				SECTIONS. SHOW	NDURATION
•	E G	° · _ · ·	CRUDE BEDDING			
•	& T-	• • •	10157 B. a			- N
	1 1	à. : <u></u>	1,015.7' RAY C.			SORTING
•	(II					. I .
:	33				•	7E:
•	"]:		BROWNISH BLACK (54R 2/1	۸ سر ۱	11.
101084	W 124		BROWNISH GRAY (_	- X
1018	(N 124		Okokinish GRAT.C.	?.7.5.4//	<i></i>	1. 1. 1. GR.
ē :	3.	· · ·				I →
•	1:					1 - 1 OG
:]. ·					THOLOGY : GRAIN SIZE
9	† : '					
:] [
	; ;					1
	1:					-
1020	1					
					Total Pages 11	4
					4	

		Lithology	/ Description	Corehole: ORG-393
1020:	_%		(SANDY CLAY GRADING DOWNWARD TO)CLAYEY SAND ANDGRAVEL (SAME GRAVELS ARE CONFIN	E UNIT AS ABOVE) :
	1		(15 mm RUTILATED QTZ., 5 mm FELDSPAR); CR. LOCAL IRON STAININ	UDE BEDDING
1022	1			
	111111111111111111111111111111111111111		STAINS: MODERATE YELLOWIS MEDIUM GRAY (NS) TO OLIVE GRAY (544/1) SANDY CLAY GRADING DE CLAYEY SAND AND GRAVE	(CONTACT/NO UNE)
1024	Erovery		ANGULAR, WELL-SORTE IN A GOTO CLAY MATRIX DOWNWARD INTO F-VC SORTED GTZ. SAND AN QTZ., 6 MM FELDSPAR) 170 FELDSPAR, TRACE	DOTZ SAND (35%)-> GRADING , ANGULAR, POORLY UD GRAVEL GEMM N 5-15% CLAY MATRIX, N 1-2 70 MICA,
1026	A 7 7 7 7 0/	.0	TRACE RUTILATED QT. LATINATED.IN. UPPER. TO CRUDELY BEDDED	1.5 FT., MASSIVE - DON
1028 Run	125	. o		LITHOLOGY: GRAIN SIZE: SORTING
1030	00	0.0.0	GRAYISH GREEN (10645/2) NO RECOVERY (?)	
1030	- 			Total Pages 114

				104 04
Ft 1030		Lithology	Description	Corehole: ORG- 393
7030	<u> </u>	\geq	NO RECOVERY (?)	Cty., State: ORANGEBURG, SC Date: 5/17/97 Geologist: D. PROWEZL
1578.	1	0.0.0.0	CLAMEY SAND AND GRAVE	L (SEE DESC :
- :	3	6	ABOVE)	
× ¥	- 1			-
•	3			=
•	1		GRAYISH GREEN (1064 5/3)	- 8
1032:	····	10 10	GRAMISH GREEN (1064 5/2)	CONTACT/NO UNC
•	4		CLAYEY SAND, F-VC, AND	GULAR, POORLY-
•			SORTED QTZ SAND, 5. MATRIX, 5-10% MICA (-10% CLAY
:	#		RUTILATED ATZ, TRACE	Samm); (RATE
•	7		170 LIGNITE (S5 mm);	1% CRAVEL - 8
:	1		(7mm RUTILATED QTZ.	W
•	5 1	100 10 10	25 mm SMOKEY 9TZ.)-	TRACE FELDSPAR : 0
	7		(7mm RUTILATED QTZ., 25mm SMOKEY QTZ.)- MASSIVE TO POORLY-B.	EDDED; INDURATED &
1034:			LIGHT OLIVE GRAY (546,	
:	ال ين		NO RECOVERY (?)	. 00
	V Z			_
4	1	8	CLAYEY SAND AND GRAVEL	F-VC, ANGULAR: NEW AND AND AND 10% - X
•	41:		POORLY SORTED QTZ. S	
:	S: 4:		GRAVEL (SMOKEY QTZ 530	MM, RUTILATED : NO & 16 MM, : VIND RSE SLATE BELT : NO BBLES): 1-2% : N
•	50		QTZ. S. 19 mm, WHITE OTZ	€16mm, . : \
1036	· · · · ·		FELDSPARS 3mm) (SPA)	RSE SLATE BELT : 5
•	4 :	•	FOLIATED QTZ/ROCK PE MICA, 170 FELDSPAR,	BBLES); 1-2% = Z
•	7			TRACE GARNETS = 0
•	3.		TRACE OPAQUE HEAVIES	TRACE
:	† :		LIGNITE (5 30 mm); MO	DEXHIELY - 5
	20		COMPACT/CEMENTED; I	MEAKILY BEDDED :
: (272
1038 Pu	7121			ORALLY BEDDED; CRAIN SIZE: SORTING
1000 Ru	N 127	o. —		····
ń :	4:-			= = = = = = = = = = = = = = = = = = = =
	3: .			1 00
:	477			= 9
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•	1			:
				:
1040	1	- :'-	- LIGHT OLIVE GRAT (546/1)	
				Total Pages 114

					102 8.	
Ft 1040	Run #	Lithology	Description	ţ=	Corehole: ORG-393 Ctv., State: ORANGE84	26. SC
7010			CLAYEY SAND AN	D	Cty., State: ORANGE84 Date: 5/17/97 Geologist: D. PROWET	
			GRAVEL , (SAME	AS		
- 2	-	-	ABOVE			48
						-
:	-					- ec
1042:		:0 -				- 5
1072						
:	-					rentrine erenceine
:	3	0				114
:		0 -				- an
	<u>}</u>					1-1
1011	016		2			POSCII S
1044	N H	0 0 8	SCATE BELT. QTZPEBBLES			
:	RE					 ALO
:						NER
:	9.8					INDURATION: MINERALOGY
:	0]			,		NOI
:	1					JRAT
1046-						····I
į						
÷	1	ь				RTIN
	1				#2 \$2	. I . S0
:	-					SIZE
: 01084	A) 127		NO RECOVERY	(546	<u>(1)</u>	AIN
1048 84	N 126	0	NO RECOVER!	1		1. 1. GR.
	1					1.15 100 100 100 100 100 100 100 100 100 1
•						010
:	1					LITHOLOGY : GRAIN SIZE : SORTING :
:	1					-
].		ė.			=
1050						- -
					Total Pages_	11 [

			7-	106 91
Ft	Run #	Lithology	Description	Corehole: ORG -393
1050	: <u>-%</u> -		T	- Cty., State: ORANGEBURG, SC. Date: 5/18/97
	•		CLAMEY SAND AND] Date: 5 //8/9 / -{ Geologist: D.PRoພຣີບ
			GRAVEL : (SAME AS	Geologist. D. 1 Reduce LE
			ABOVE)	-
	:		, KGGVE)	
n Â	-			
				-
•				- 6
INFO:	- 4			- ;
1052]		GRAVERLY SAND CLASTS	
:	3		GRAVERLY SAND CLASTS	1 4
:	7		CRAVELLY CLAY	11.
88	- 1		COMMO	
	- 1	ينونينين	i i	4.7
•	4			
	4	·		: <u>;</u>
:	× 1			ارا
1054:	F. 6.	0		
				<u> </u>
:	PEZOV			: 6
× .	E \$. I ×
:	.1		GELDSPART CLAY CLAS	<u>- = = = = = = = = = = = = = = = = = = =</u>
:	4		QTZ AND FELDSPART CLAY CLASTS QTZ TO 0.5, NCH (DAYISH (DEEN (10GY 5/2))	- I
	2			
SHARP -	6	3	CLAYEY SAND GRADING I	tct/No unc 9
	4 21		CLATES SAND GRADING I	NDURATION: MINIERAL
1056		1	POORLY-SORTED QTZ	F-C, ANGULAR, - 3
THE .		=	POORLY-SORTED GTZ	\ \
:	+		DOWNWARD INTO F-V	A OT SAID
	3/			SORTING
		-\		oo
:	- 1	\vee	NO RECOVERY	
•	3.		L in annual to	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
:	- 1			N - 1S
1058	N128-			All Hall
1030 km	N 129 .		AND GRAVEZ (8 MM SMOK	EY OTZ: 10mm - 0
# :	1.		SLATE BELT QTZ. / ROCK PE	BBLE: 3 Mm
:	3.		FELDSPAR); 2-3% MICA	A TRACE BLUE : 8
•	- 1.		QTZ., TRACE RUTILATED	OTZ. TRACE - 0
•	寸 ∴		CARNET, TRACE OPAQUE	TRACE BLUE TRACE BLUE TRACE HEAVIES,
•	∄ ∹		(RED & ORANGE))	W-CONSOLIDATED:
1	1:		TRACE FELDSPAR; SEP	(1 = CONSOCT EACTED
	1 °.		TO WELL-INDURATED, I	TITSSIVE TEXTURE,
1060	1-		GREENISH GRAY (545/2)	
				Total Pages 114

Ft =	Run#	Lithology	Description	Carehale: ORG-393
1060			CLAYEY SAND AND GRAVEL;	
		; ;	(SAME AS ABOVE)	Geologist: D. PROWELL
1 ja - 1	1	· · · · ·		- :
			-	:
	3			:
:	1			
1062:	••••		***************************************	<u>:</u>
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÷				N 1
	3		ta ta	- c
:	장 :			111
1064:	VE	0	*****************************	
•	2			11.00
	1 -	==:	GRAMISH GREEN (10645/2)	ENTACT/NO UNE)
٠			INTO SAND AND GRAVE	
2	0 -		ANGULAR POORLY SORT	ED, QTZ. SAND: S
1040	0		IN 25-30% CLAY MATE	EX GRADING
1066			INTO F- VC, ANGLICAR Q	TZ. SAND
:	<u></u> -		AND GRAVEL (SMOKEY Q	TZ & 30 mm , & 6 mm.
:	1:		RUTILATED QTZ = 20 mm) 3-4% MICA, 1% FELDSA	3-4% OF CORE; DNILLY OF CORE; TRACE
ii.		0 0 0	OPAQUE HEAVIES, WELL	5 J
÷		6	MASSIVE TEXTURE;	SIZE
10/0 Rus	J 124			- Z
1068 Rui	V 130 -		***************************************	GR
•				ADC ADD
•				TTHOLOGY.
:				l
:	#::			<u>.</u>
1070	1:		GRAYISH GREEN (10645/2)	- -
10.0			·	

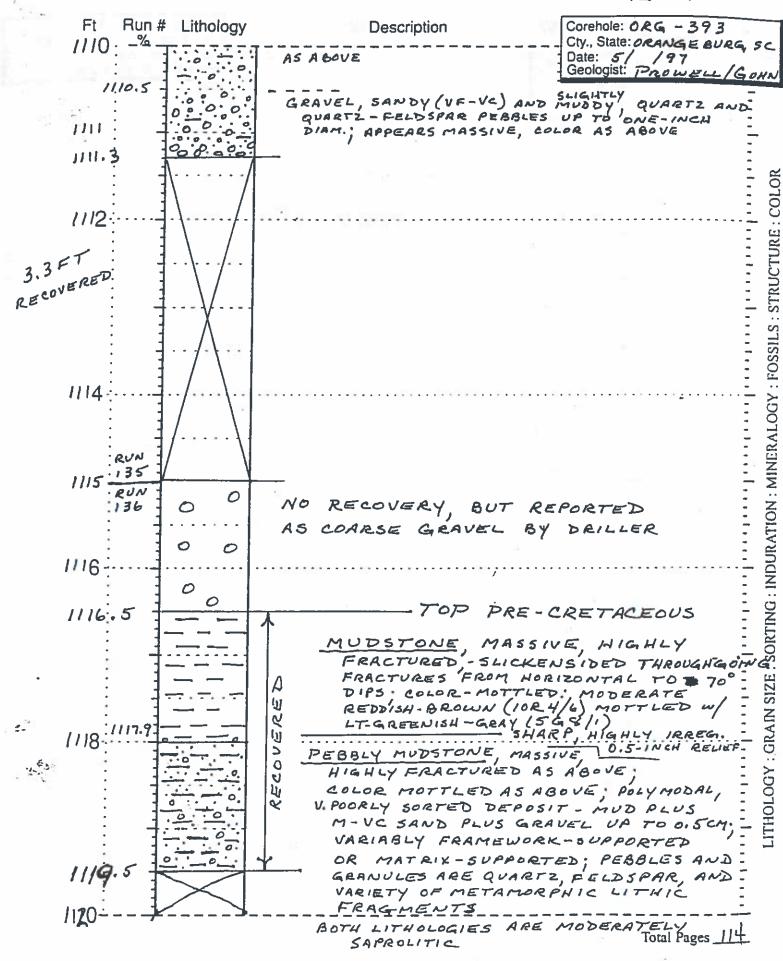
				70 007
Ft 1070		# Lithology	Description	Corehole: ORG-393 Cty., State; ORANGEBURG, SC
7070	Je ti	100 = 1	SEE PREV. PAGE	Date: 5/18/97 Geologist: D. PROWELL
	2.4 RECOV		NO RECOVERY	
	PUN 130			
1072	•		CLAYEY SAND AND GRAD	VEL (BOTTOM OF 10)
7012	•			Contact (2/2/2)
	: -		DUSKY YELLOW GREEN (5	CONTACT/NO UNC - S
			CLAYEY SAND GRADING INTO SAND AND GRA	EVEL , F-M
	•		ANGULAR, WELL-SORT	TED GTZ. SAND : 0
1074			FT.) QUICKLY GRADIN	RIX JUPPER 1.9
			ANGULAR, POORLY ST	RTED QTZ. SAND: 2
			AND GRAVEL (SMOKE	Y QTZ-7mm, 質
	: -		FELDSPAR (5mm); 2-3	3 % MICA, 1% - \(\bar{\bar{\bar{\bar{\bar{\bar{\bar{
			FELDSPAR, TRACE GA	ARNET, TRACE
			OPAQUE HEAVIES; W UPPER 1.9 FT SHOW:	S FAINT BEDDING : A
1076			DISRUPTED BY BACKE	=ILLED BURROWS / Q
	: :		ROOTS; BEDDING APPE	AR UNDULATORY : -
		· · · · · ·	AND LOCAL TRON STY	DDING IS MASSIVE: SO
	: -	٠٥٠	BELOW 1074.9 FT BE	CONTROL 12 MASSIVE:
			UPPER BEDS: LIGHT OLIVE CONTROL STAINS : DARK YELLOWISH	
•			LOWER BEDS: GRAYISH GREET	- S
1078	Rud 131		NO RECOVERY	5/18 : Z 5/19 : U
[0]0	Runisz.	-1 = 4-		
2 000			CLAY, SILTY, SANDY (VF	-C, 5-10%, -00000000000000000000000000000000000
	1	<u></u>	DISSEMINATED), RED CXIDATION CULORS AL	AND YELLOW : JO
ا المام المام	VE 100'		POSSIBLE ROOT CAST.	
ر کام	= 1		PED FABRIC IN TOP	0.5 FT -
	3			:
1080-		لنتيت		

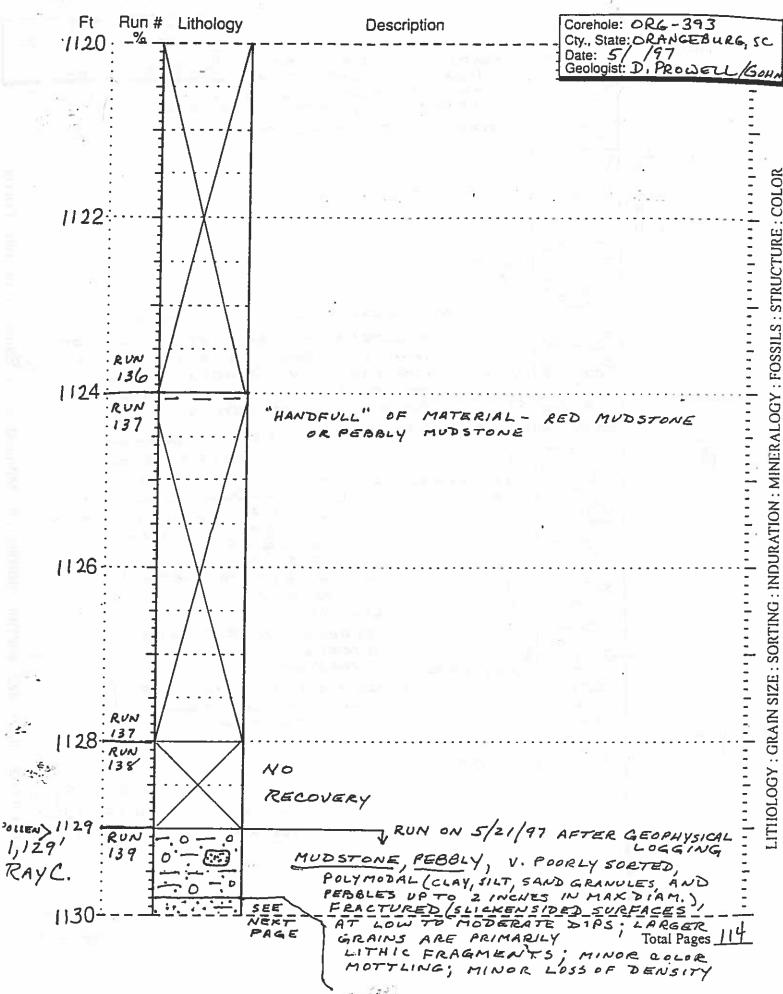
Ft 1080		Lithology	Description	Corehole: ORG-393 Cty., State: ORANGEBURG, SC
,000				Cty., State: ORTNGEBURG, SC. Date: 5/19/97 Geologist: D. PROWEZL
1.1.2			1080.5'-BROADLY GRADATION	JAL -
7540 1042 149			SAND, VF-VC, GR	ANULES (LOCALLY -
			5-20%) - DOMINA	MUDDY - INCREASING &
100			UPWARD, APPEAR	MUDDY - INCREASING TO
1082				
	: <u>1</u> : <u>1</u>			FOSSILS: STRUCTURE
	:]	0		STRU
	: 1			ILS:
	:]	0		FOSS
1084				. T. C. B.
10.2	-			ALO RALO
ALECOVER P	50			
Kac	3			
	1	0		ATIC
1086				:
	<u> </u>	_		<u>:</u> :
•	1	·		' I ' ' ' ' SORTIN
		-1.0		• • •
	4.			ZISA
1088-	132			RAP.
19	133 :	•); ; ;
	= =		PERRITS (STANUL	ES (LOCALLY 5-20%) - 0]
:	-		PEBBLES (SMALL, SPAR MODERATELY MUDDY	LITHOLOGY: GRAIN SIZE
	1	-	MASSIVE	= -
. 600	1:	00		
1090-	<u></u>			Total Pages // 4

Ft		Lithology	Description	Corehole: ORG-393
1080]			Cty., State: ORANGEBURG, SC. Date: 5/19/87 Geologist: D. PROWELL
			1080.5'-BROADLY GRADATI	Geologist: D. PLOWELL
2.1			±	
**	: -		= SAND, VF-VC, G	RANULES (LOCALLY -
	-		5-20%0) - DOMI	NANTLY QUARTZ
	: ']		AND FELDSPAR UPWARD APPE	MUDDY - INCREASING
1082	<u></u>			
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	: -			! sa' -
	: 1			
	: 7			[-] E
	: 4			1
	: 1	0		
1084			• • • • • • • • • • • • • • • • • • • •	
10.2 GECOVER	: 1	- 1 1 1		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
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RECOVER	E 0 1			19692
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1086-	1.			
1080		0]= -
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		5	•	
8	-			- 3
	3.			<u> </u>
	RUN			
_ 1088-	132			غ ئے۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔۔
	/33			
10 N	1		SAND, VF-VC, GRAN	ULES (LOCALLY 5-20%)
	4.		PEBBLES (SMALL SPA	IRSE UP TO 0.25 THE
	1	0	MODERATELY MUDD MASSIVE	Y, APPEARS
•	4	-		
	1:			
1090-	·`	'-'d-		Tank Bassa 114
				Total Pages 114

Ft	Run #	Lithology	Description Corehole: ORG-393	
1090	%		Cty., State: ORTNGEBUR Date: 5/19/97 Geologist: D. PROWELL	25 2C
			SEE PREVIOUS PAGE Geologist: D. PROWELL	GOHN
			- F	-
2.7				-
V V	**		1091.1 -GRADATIONAL ACROSS O.1	-
			CLAY, SILTY, SANDY (VF-F) AT TOP AND BOTTO. MASSIVE, OXIDIZED	~=
			U	- 8
			1091.75 - GRADATIONAL ACROSS O.1'	COLOR
1092				- I
				STRUCTURE
	: 7			- 12
				1
	: 7			
	:]			ILS
	: -		SAND, VF - VC, GRANULES (LOCALLY	MINERALOGY: FOSSILS
-04	:]	0	5-20%), SMALL PEBBLES UP TO	. F
1094			1 cm (0-3%, LOCALLY; QUARTZ,	- J
9,8 FT RECOVER	:]	563	FELDSPAR, AND METAMORPHIC LITHIC	9
9.8	0		FELDSPAR, AND METAMORPHIC LITHIC FRAGMENTS), CLAY CLASTS (LOCALLY O-170, UP TO 1 CM ANGULAR). APPEARS MASSIVE; OXIDATION MOTTLE	- ERA
OECOVE			APPEARS MASSIVE OVIDATION	
K	: 7		AT 1,094.0-1,094'8 FT	Σ.
•	3			- NO
	7		•	A TIT
.000	1			N
1096-				INDURATION
	=			- 5
:	4			
	: 4	0		- E
	Ŧ			S:
:	4			''
:	RUN	0		SZ
- 1000:	133			- ₹
1098-	RUN	0 0	PRIMARILY SAND (VE-VC), SLIGHTLY	I
4.5°	134		MUDDY WITH VARYING AMOUNTS OF]
	3.		GRANULES AND BEBBLES (5 TO 20%) (0 - 5%)	07
•	4.		(5 To 20%) (0 - 5%)	JITHOLOGY : GRAIN SIZE : SORTIN
	3		LOCALLY MICACEOUS	LIT
:	4:		LOW-ANGLE BEDDING DEFINED BY	:
	3.		GRAIN-SIZE CHANGES LOCALLY!	-
1100:	#:	0 -	DOMINANTLY MASSIVE	
1100-			Total Pages 11	1

Ft	Run #	# Lithology	Description	Corehole: ORG-393
1100		7. T. T. T. T. T.	T	Cty., State: ORANGEBURG, SC. Date: 5/ 197
		- 0		- Geologist: D. PR。ルミレ
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	•	0.5		:
			SEE PREVIOUS PAGE	
	•			1,,,,
1102				
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				R : T
ag FT				- 's
TOUER		.0		
9.9 FT RECOVER	: :		*	FOSSII
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[104	:			······································
	:=			
			1/	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1,105	 حماله ۹		1104.9- 1105.15 ET - SHARP CONT	ACTS Z
1,105 Ray C.			CLAY, SILTY AND LOCALLY.	
•	: 3		MED-DARK GRAY GOOD POLLEN SAMPLE	<u> </u>
		0	SAND, VE-VC, 5-10% GRANULE	S, SLIGHTLY MUDDY : \$
1106		. —	1106:0.	· · · · · · · · · · · · · · · · · · ·
1.50		0 -0	GRAVEL SANDY (VF-VC)	AND SLIGHTLY - Z
	: = = 4	0 0	MUDDY GRANULES AND INCH) OF QUARTZ FELDSA ROCK FRAGMENTS; COARSE	AR AND METAMORAIK-
	: - 3	· · · · · ·	1106.7 _ APPEARS MASSIVE	SORTING TO SOLUTION TO SOLUTIO
	: 4	-	SAND, VF-M, MODERATELY M	UDDY MASSIVE
			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	3 0 1			SIZE
Na.	134			
1108-			No RECOVERY	
4.630	135		AS BELOW, BUT 20-40 TO GRAN	
	08.5 T	0	INDISTINCT CONTACT	= L
			SAND, VF -UC, 10-20% &	RANULES MUDBY, - III
E A .	1		FINING - UPWARD, APPEAR	S MASSIVE -
	- 1		PALE-YELLOWISH - BROWN ((10YRG/2)! = =
	/ -=	0 0 0	1109.8 PERBLY ZONE	2
- H10-		<u>-::::::::::::::::::::::::::::::::::::</u>		





	Ft 1130	~/	Lithology	Description Corehole: ORG-393 Cty., State: ORANGEBURG, SC Date: 5//97	
	1150		0 -	MICACEOUS (LIGHT AND DACK) Geologist: D. PROWELL	
4			0 000	COLOR-MOTTLED NUMEROUS, LOW-RNGLE, WISPY -	
	//3	1.2		LAYER OF 0.25 - 0.5-INCH PEBBLES	
		RUN		NO RECOVERY	COLOR
	1132-	139 RVN		55	E: CC
		140	0 0	1/32.5	CTUE
	1133		DQ	CONGLOMERATE AND CONGLOMERATIC	STRU
		a :	-000	SANDSTONE (M-GRANULES), MUDDY BUT :	S
	:	=	0-0	GRAIN SUPPORTED : CLASTE ARE MAD TO	ŞSII
	:			GRAIN SUPPORTED; CLASTS ARE MOD. ROUN' 1133.8 ANGULAR LITHIC FRAGMENTS: POUR	45
	1134:			LOW-ANGLE, INCLINED	:: <u>≻</u>
		=		Land Accord	0
	1000	=		Muttix Predominantly =	₹
	100 (3		S3 Grayish Red (5 R 4/2) and I	N.
				1135.0 - APPROXIMATE Light Greenish Gray (5 6 8/1) -	Ξ
		- :	0 0	Clasts are Dusky Yellow Green : (5 64 5/2), Medium Gray LNS), -	N N
	:		-	トレング はんしょ しょん くう はん タンコン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	: INDURATION : MINERA
	:	4	ST	CLAST LITHOLOGIES:	JRA
	1136	7.975	\mathcal{O}_{i}	CGL CHLORITE SCHIST QUARTZITE (METAMORPHIC)	Ţ
	•	- 1		EPIDOTE ROCK	<u></u>
	:		· · · · · · · · · · · · · · · · · · ·	GRANITE	S
	:			"REDBED" INTRACLASTS	Z.
	:	- 1	0	QUARTZ	80
	÷	3		1137.2 APPROX. FELDSPAR	띮
		4		LARGEST CLASTS IS CHLORITE	SIZ
. 6	*			SS SCHIST AT FULL - CORE :	N
2-	1138-		٠٠ : التهدر		GRAIN SIZE : SORTIN
,,65		- 1	BOTT	OM OF HOLE	1
		4	· · × · · · · · · · · · · · · · · · · ·	Moderate Olive Brown (54 474) Very Dusky Red Purple (5 RP 2/2) Grayish Orange (10 4R 7/4)	ģ
	•	=		Very Dusky Red Purple (5 RP 2/2)	70
	21			Grayish Orange (10 4R 7/4)	TH
	= :	3		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ï
	•	-	v. c		
	2.0	1		:	
	140-				
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