

Thunderbird Drilling Tobias #2

14 of 14

Sample Number	Described by: <u>Steinhart</u>	Bed Number	Unit Name	Features	County/State <u>Rice Co, KS</u>
	Date: <u>11 / 1 / 1997</u>				Section <u>25 T20S R9W</u>
	<u>10</u> Measured section				Remarks: <u>NW NW SW</u>

No.	Stratigraphic Description
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All Arkbuckle
↓

m
v m

3283
3284
3285
3286
3287
3288
3289

Top Cored Interval

P/G
P/G
P/G
P/G
P/G
P/G

mudstone rip up

w

Pel wackstone

up to 50% Qtz, detrital
in some laminae

3287

3288

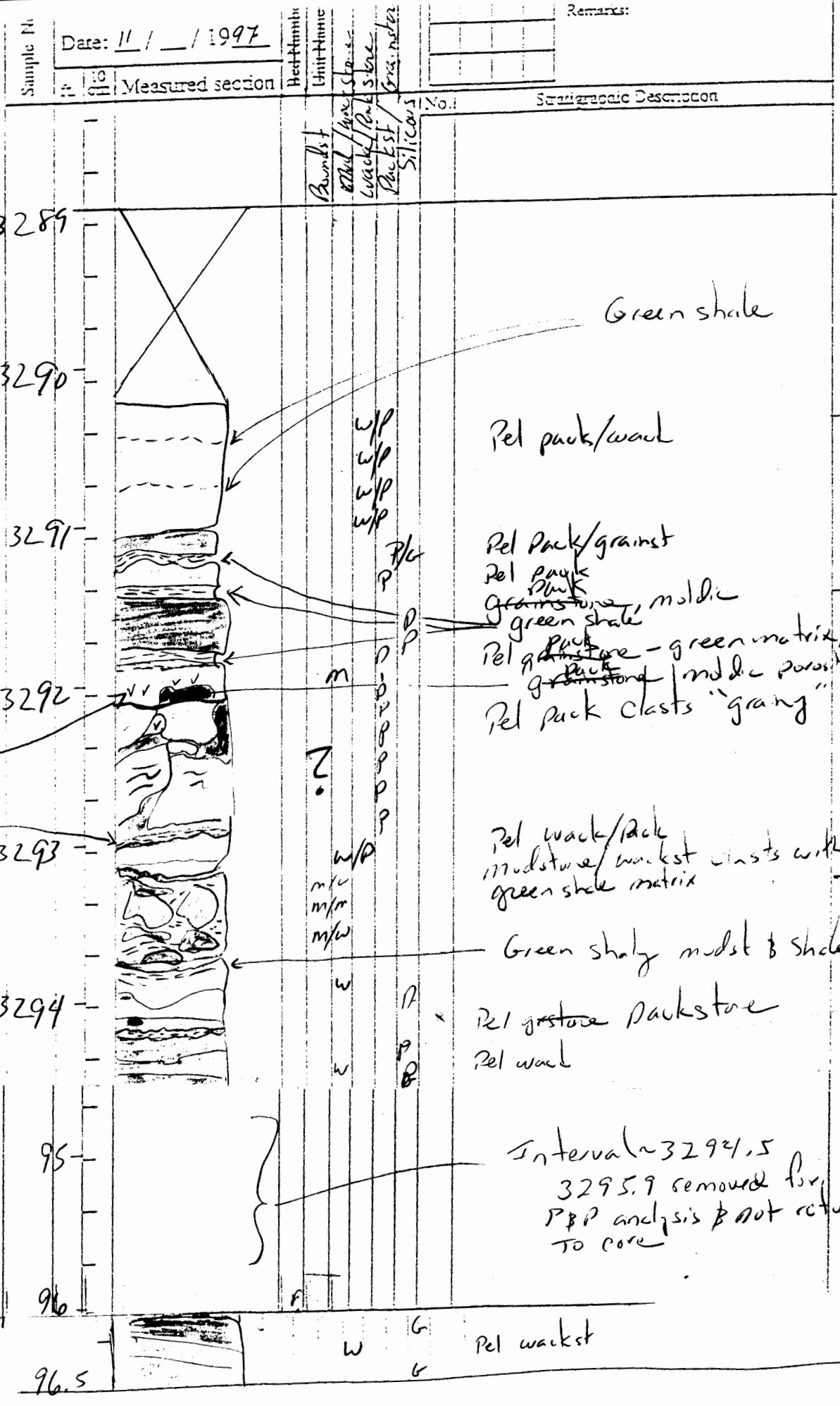
3289

m
P
P

laminated pel pack
Gramstone, mddic
muds
Pel packst
Green shale

Exact
Placement
uncertain,
± 1 ft,
~ 1/2 foot
of core
from 3287.4
was not
returned after
P&P analysis

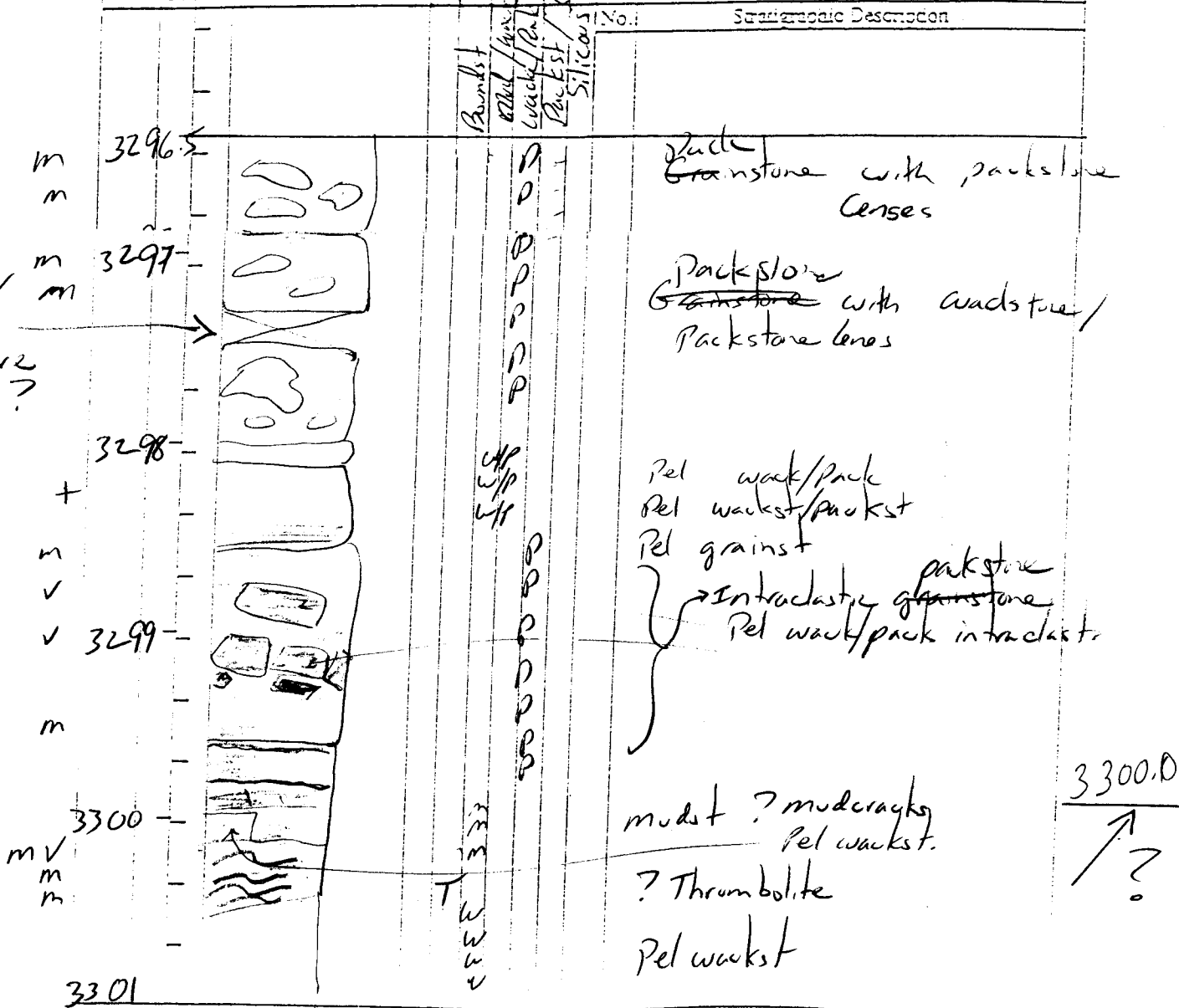
At least Two ~ 1/2 foot
lengths of core removed & not
returned from this interval
(3288.0-3288.7 and 3289.0-3289.3)



Thunderbird Drilling Tobias #2

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Sample Number	Described by: <u>Steinhart</u>	Bed Number	Unit Name	Features	Country/State <u>Rice Co, KS</u>
	Date: <u>11 / 1 / 1997</u>				
ft	in	Measured section			Remarks:



Thunderbird Drilling Tobias #2

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Sample Number	Described by: <u>Steinhart</u>		Bore Number	Unit Name	Features	<table border="1"> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </table>													County/State <u>Rice Co, KS</u>
Date: <u>11 / 1 / 1997</u>			Section <u>25</u> T. <u>20S</u> R. <u>9W</u>																
ft	10 cm	Measured section				Remarks:													
						No.	Stratigraphic Description												
33 01				Bandst	Red / wacke		Rel wackst												
				CEEE	wacke / Pink stone														
33 02					Packst / Gra. nodul														
					Silicous														
33 03																			
33 04																			
33 05																			
33 06																			
33 07																			

Thunderbird Drilling Tobias #2

9 of 14 cycle

Sample Number	Described by: Steinhardt		Date: 11 / / 1997	Features	County/State: Rice Co, KS	Section: 25 T 20S R 9W	Remarks:					
	ft.	10 cm						Measured section	Bed Number	Unit Name	No.	Stratigraphic Description
3313	m											
3314	m											
3315	m											
3316	m											
3317	m											
3318	m											
3319	m											

Fracture?
or burrow

~ 1/2 foot
removed for
P & P analysis
from 3315.5
to 17.1
not returned
to core

Bedded grainstone -
mostly peloidal
pel
pel grainstone
bedded packstone
grainstone, middle
porosity

rip up clasts?
pel wackst
green shaly carbonate - nodules
bedded

lam. to bedded mudstone
? mudcracks
mudstone, bedded
green shaly mudst

pel Pack/? grainst
with green ? clay matrix
laminated mudst

3315.5

8

D

Thunderbird Drilling Tobias #2

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Sample Number	Described by: <u>Steinhart</u>		Date: <u>11 / 1 / 1997</u>	Measured section	Feet Number	Unit Name	Features	County/State <u>Rice Co, KS</u>	Section <u>25 T. 20S R. 9W</u>	Remarks:
	ft.	10 cm								
3325										
3326										
3327										
3328										
3329										
3330										
3331										

No.	Stratigraphic Description
	mudst. / wackstone
	Packstone with "clotted" fabric
	Thrombolite Packstone with "clotted" fabric good middle porosity
	Ooid bearing pack
	Granstone / packst ? mudcracks

~ 0.6 feet
if core removed
for P&P analysis

m
m
m
m
m

rip up green shale laminations

3330.5
⑥

Thunderbird Drilling Tobias #2

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Sample Number	Described by: <u>Steinhilf</u>		Bed Number	Unit Name	Features	County/State <u>Rice Co, KS</u> Section <u>25 T20S R9W</u> Remarks:
	ft	10 cm				
3331				Bedrock		bedded to laminated mudstone
3332				Bedrock		
3333				Bedrock		Green shale with mudstone mudst. intercalated, packst. matrix
3334				Bedrock		Integ. fm. (cong. packst. matrix)
3335				Bedrock		lam. mudstone ooid packstone wackst./packst. packst. ? key stone vugs
3336				Bedrock		Pel. bearing mudstone mudst. ? modern cracks Thrombolite wack/mud - not text
3337				Bedrock		Thrombolite wack/packstone

? desiccation
cracks

Large vertical
open
fractures

3334.
? key stone vugs

Thunderbird Drilling Tobias #2

1 of 14 Cycle

Sample Number	Described by: <u>Steinhart</u>		Red Number	Unit Name	Features	County/State <u>Rice Co, KS</u>	Section <u>2S</u> <u>T. 20S</u> <u>R. 9W</u>	Remarks: <u>NW NW SW</u>
	ft	10 cm						
3361				Bandst				
62								
3363								
64								
3365								
66								
3367								

Green Clay

+

62

? GAP

3363

v
v
v

64

GAP

3365

F

F V

F V

66

3367

↑ lam. mudstone

Red Number

Unit Name

Features

County/State Rice Co, KS

Section 2S T. 20S R. 9W

Remarks: NW NW SW

No. Stratigraphic Description

1 Packstone
 ? Thrombolite
 Pel wackstone
 Pel grstone
 wackstone
 Pel packstone
 D
 Pel wackstone
 Grades up
 Grainstone
 Interbedded grainstones & packstones
 Pel. Packstone
 Grades up to packstone
 ? Thrombolite
 wackstone
 Pel wackstone
 mudstone
 mudst. not text. fractures
 mudst. - some fenestration - cont. occluded
 chert breccia
 ? cherty surface
 ? Stromatolite
 ? Pel wackst.
 fine-grained ? grstone / packst
 mot. text
 Bottom of Core

3364.8

↑

-0.4 feet
 of core removed from
 3363.6 to
 3365.1 and
 not returned to core

~0.4 feet of core removed from Interval
 3366.5 to 3368.0 and ~0.4 feet from 3367