## P.Petra No. 59 : Agreement on Lease of Vineyard

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American center of oriental research
2018

Kaimio , M \& Lehtinen , M S 2018 , P.Petra No. 59 : Agreement on Lease of Vineyard . in A Arjava, J Frösén , J Kaimio , M Buchholz \& T Gagos (eds), The Petra Papyri V . American center of oriental research, Amman , pp. 164-175.
http://hdl.handle.net/10138/311936
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# 59. Agreement on Lease of Vineyard 

| Inv. 84a | 24 x at least 78 cm | Petra |
| :--- | :--- | ---: |
| Field No. XIII | left margin $0.9-1.4 \mathrm{~cm}$ | January 8 (?), 569 |
| Glass Plates $313-15,317$ | top margin ca. 6 cm |  |

This roll was found next to 39 (see P. Petra IV, p. 43, Fig. 1). It was broken up into three parts ( $B_{1}, B_{2}$, and $B_{3}$ ). The fragment stack containing the series labeled $C \gamma^{1}$ belongs between the fragments labeled $B_{3} B$ and $B_{2} L$. The text was written transversa charta, the width of the column being approximately 24 cm . The lines begin with fragments labeled $L(e f t)$, which preserve a left margin of $0.9-1.4 \mathrm{~cm}$. The right margin is nowhere extant, and the number of missing letters before it varies greatly. The shortest reconstruction is two letters (1.2), while the longest may well contain thirteen letters (ll. 28-29). The lines which have been restored with some confidence had altogether ca. 51-60 letters. After the roll was read for the last time, the beginning of the text was left in the core. The top margin was considerable, ca. 6 cm , but even a broader margin would not be unusual in our papyri (see P. Petra III, p. 3). Toward the outer surface of the roll, the layers become more and more fragmentary. The outermost fragment (A1) still contains writing belonging to the signatures, with no bottom margin. The total length of the extant roll is difficult to estimate because of the poor state of the outer layers, but it was at least 78 cm .

The text is dated in the fourth regnal and postconsular year of Justin II, the year 463 of the Arabian era, i.e., early in the Julian year 569. The passages giving the Roman and Macedonian month and day are poorly preserved, but a date on the sixth day before the Ides of January is likely, corresponding to the twenty-third day of Audunaios, i.e., January 8. The document was drawn up in Petra.

Leases or labor contracts for vineyards are not very numerous in papyri. ${ }^{2}$ This text concerns a lease of a vineyard, though it is not a lease in the usual sense. It was written in the form of a unilateral cheirographon, where the person appearing in the first person singular is Monaxios, son of Leontios, a prior of the garrison of Sadaqa. He had at an earlier phase leased from a man called Valens a plot in Sadaqa for deep tilling ( $\beta \alpha \theta$ ovprí $\alpha$ ), a process required before vines could be planted. The other party of the present agreement, addressed in the second person singular, was a woman called Hyperechia, living in Petra. She was the "most reverend" wife of (evidently the same) Valens, a deacon. The purpose of the agreement is summarized in 11. 28-29: "For as security for Your Reverence that [these (facts)] are clear, [I have made] the present written [agreement]." Unfortunately, the middle part of the document especially is so badly preserved that, for us, these facts remain largely unclear.

[^0]It seems reasonably certain that Monaxios had indeed once leased the land from Hyperechia's husband. The lease contract ( ${ }_{\kappa}^{\kappa} \kappa \lambda \eta \mu \psi \imath c$ ) had determined that he undertook the deep tilling in order to render the plot vine-bearing under his own cultivation (11. 9-13). Thus, the lease concerned an area destined to become a new vineyard. ${ }^{3}$ Apparently this earlier contract contained detailed provisions on the cultivation and care of the vines, as well as on the division of profit, topics not further described here (cf. 11. 25-26). Later, circumstances must have changed, as the lady now seems to possess only a part of the original plot (perhaps only a half, cf. 11. 1415,34 ). Evidently Valens had died-he may have been mentioned as deceased in the gaps, e.g., with the title $\mu \alpha \kappa \alpha \iota \dot{\tau} \tau \alpha \tau о с-l e a v i n g ~ h i s ~ w i f e ~ a ~ s h a r e ~ o f ~ t h e ~ p l o t, ~ w h i l e ~ t h e ~ r e s t ~ h a d ~ g o n e ~ t o ~ o n e ~ o r ~ m o r e ~ o t h e r ~ h e i r s . ~$

Starting from this initial setting, we offer two possible scenarios for the purpose of the present agreement. In the first scenario, the other heir(s) had somehow wished to alter the conditions of the original contract, notably by requiring a payment ( $\tau \tau \mu \eta^{\prime}$ ), which the lessee could not afford. Therefore, Monaxios had denounced his lease
 for Hyperchia, confirming that he had, of his own free will and volition, renounced the lease of the other part of the plot (11. 20-22) but continued to lease the part now belonging to the woman. Thus, he acknowledged in written form that the terms stipulated in the original contract would still be valid for this part of the land (ll. 24-$31,39-40)$. The role of a certain Obodianos, son of No...tios, in the matter (1l. 22-23, 37) remains obscure. He might be the new owner of the other part of the land, whether having inherited or purchased it.

In an alternative reconstruction, Monaxios may actually have wished to terminate his lease of the part belonging to the woman herself, 11. 19 and 20-22 thus referring to this denouncement. The mysterious Obodianos may have been a new tenant who took the plot on lease after Monaxios, accepting the original terms (see 1.17 comm.). The extra payment ( $\tau \mu \eta$ ) might have been somehow connected with the change of tenancy. This scenario explains many details of the text, but it would be odd for Monaxios to place so much emphasis on the terms of the lease, since, after the present notice, they would have no meaning for him. Perhaps he could rid himself of the contract only if Hyperechia came to no harm from the change. Obodianos and Hyperechia would of course make a new contract between themselves.

The document proper (ll. 1-31) was written in a middle-sized, upright, professional hand. As was usual in such unilateral agreements, only Monaxios appears to sign the agreement (1l. 31-44?). He wrote in unaccustomed capitals, and his ortography is often faulty ( $\varepsilon$ for $\eta$, o for $\omega$ ). There are perhaps five witnesses who provide their signatures, of which the majority seem to represent a short type, while the last has a longer formulation. The layers are so fragmented and confused that it is mostly impossible to tell where the different hands begin or end. Thus, they do not present much additional information
$\uparrow$

3. Cf. 1.11 comm.; P. Petra II, pp. 3-4.

 ..... F11
12 


$\qquad$

$\qquad$F12F13

 ..... F14
18 ．${ }^{2} .[$.  c． 9 ］．عủ $\tau \circ \rho \varepsilon i ̂ y ~ \mu \varepsilon ~ \delta o ̂ ̂[v \alpha ı ~ \tau \grave{v} v]$  ..... F15
F16
 ．］．［ c． 10 ］．ạ่̛тô̂ т̣．．．．［ c． 6 ］
 ..... F17
24 
 ..... F18
27

 ..... F20－19


 ..... F21

 ..... F22

［ ］traces［ ］ध．є｜．l．［ c． 8 ］ ..... F23F24

［ c． 10 ］ọソب̣ọ．．．．．．．［ c． 13 ］．．．．．［ $6-8$ ］ ..... F25
  ..... F26

［ ］traces［ ..... ］६．｜．．［．］кぃ［ ］
［m3？］．．exour［ ］к．．［．．．］cıv．．．．［．．．］．．［ c． 6 ］．．．．．［ ］ ..... F27
［ ］ $\mathbf{m 4} \dagger \Phi \lambda\left[(\right.$（áovioc $)[.] \lambda\left[\begin{array}{c}\text { c．} 6\end{array} 6 . \rho \eta \varphi{ }^{[ }\right]$
［ ］．т．．．．曰．［ ］．甲．［．．．．．］．．．．．［ ］ ..... F28
［ ］x̣̣̣i $\varepsilon$ ér［̣̂ ..... ］
［ $\pi \alpha \rho]$ ற̣́ $\mu \varepsilon v \mid \kappa \alpha i ̀ \mu[$ ］．．［ ］．．．．．．［ ］ ..... F29
$\mu \varepsilon \tau \alpha \xi$ v̀ $\mathrm{\imath n}[$ ..... F40





## Translation

(Lines 1-5) In the fourth year of the reign and consulship of our most divine and pious Lord Flavius Justinus, eternal Augustus and Emperor, on the sixth day before the Ides of January, on the [twenty-]third day of the month [Audunaios], in the four hundredth sixty-third year of the province, in [Petra, Metropolis] of the Third Palestine Salutaris.
(Lines 5-9) I, Flavius Monaxios, son of Leontios, the . . . prior of the . . . ala of the garrison of Sadaqa, [which] belongs to the district of the said Metropolis, originating from the same garrison, at present residing here, to [Hyperechia], the most reverend [wife] of the deacon Valens, [originating] from the said Metropolis, acknowledge the following.
(Lines 9-14) Since I, according to the written lease made between [myself and the] most . . . Valens . . . with the right concerning leaseholds, took at a certain time on lease, for deep tilling, [the field] called plot Eil[ . . . ], situated in the area of Sadaqa, to the south of the same village, on the condition that [I render] vine-bearing, cultivating it [myself, the plot?] comprised in [the same] lease . . .
(Lines 14-23) Your Reverence [wishing?] at present . . . as much of it as belongs to you and [at the end of the period of?] . . . . Therefore at present I have . . . wishing to obey? . . . to the ground his . . . to have them $\ldots$. . [that I do not?] have the means to give [the] price, I renounced that kind of lease . . . [to] make clear to you in written form the . . . and the notificatory document, through which I acknowledge that I have, of my own free will and voluntary choice, renounced the said lease [of] the said [plot?] . . . the most devoted Obodianos, son of No...tios.
(Lines 23-31) Equally . . . . . rightfully . . . the said old written lease [shall?] be valid [with] its [inherent] power according to the formal question concerning the cultivation and care [and] the cession of profit and [everything] else described in it between me and [you/him?, if your] and his [heirs and] successors [wish? . . . ] from you . . . For, as security for Your Reverence [that these (facts)] are clear, [I have made] the present written [agreement] which, signed and released, [will be valid] and firm wherever presented. Good faith has been asked by you and agreed upon for you by me.
(Lines 31-44) (2. H.) † I, the above-mentioned Flavius Monaxios, son of Leontios, prior . . . of Sadaqa, have made to [you,] the most reverend Hyperechia, this . . . . . half part of . . . belonging to the owner . . . . . Obodianos . . . . . the lease according to its inherent force and the formal question (concerning) the cultivation and care and . . . profit . . . . . future . . . . . and asked by you I have agreed [to every particular as] is written above, accordingly ...
(Lines 47-51) (Several witnesses) $\dagger$ Flavius . . . . . with my own hand . . . . . I was present and . . . . . between

## Commentary

1-4 The indications of the year are clear: the fourth regnal and postconsular year of Justin II (11. 1-2) and the year 463 of the Arabian era (ll. 3-4) point to the beginning of the Julian year 569 (before March 22). On the other hand, the traces for the exact date in 1.3 are minimal. Most promising is the beginning of the Roman date: the deep downward curve coming from this line is most likely a
 December of the previous year, which is not possible. The reading $\epsilon_{\substack{1 \\ \delta}}^{\omega} \varphi$ is, however, uncertain since the traces are ambiguous and occur on a floating fragment (M). Before $\mu \eta$ vóc, beginning the Macedonian date, the genitive plural of the Roman month is clear. We have combined this fragment (fr. $\mathrm{B}_{3} \mathrm{~B} 25$ ) with fr. $\mathrm{B}_{3} \mathrm{R} 1$, which should belong to this fold (cf. frs. R2-R4 in the subsequent even folds), so we read the month as 'Iavovápioc (with the erroneous omission of the second alpha).
 papyri. The supplements rely on the Roman date.
 visible on fr. $\mathrm{B}_{3} \mathrm{~B} 19$ and the lowest part on fr. $\mathrm{B}_{3} \mathrm{~B} 26$. The name recurs in the first signature in 1. 31, where ]ov $\alpha$ [ can be read. The name Monaxios is found frequently in the Petra papyri, most often referring to the father of Ailianos and Nikias (see Index V, and Introduction to 45-47). As the brothers were already adult in the 540s ( 22 and 45), while the present document is from the year 569 , it is not likely that this Monaxios was their father. He can, however, belong to the same family; it may be noted that at least one plot in 46 was situated in Sadaqa. The father's name, Leontios, is too common in Petra to be of any help.
[.]....... $\pi \rho!\varphi \varphi \rho \bar{\varepsilon} \xi \varepsilon \varepsilon^{\prime \prime} \lambda(\eta c) .[\quad]:$ the lessee is a prior (non-commissioned officer). The men of this military rank carry in

 possible. At the end of the line, we restore hesitantly $\varepsilon \xi \xi \in!(\lambda(\eta c)$. [, though the letters look like $\varepsilon \lambda$ rather than $\varepsilon \lambda \lambda$. After the prominent curve of the lambda, there is a horizontal trace high up, perhaps the sigla for abbreviation, and then an obscure low-reaching trace (iota or lambda? , which could begin the name of the equestrian unit (ala) in question: there is, at the end of the line, space for 5-10 letters.
 $\varepsilon^{\prime} \lambda(\eta c)$ or ${ }^{\prime} \lambda(\eta c)$ is common, but in the few Greek papyri from Egypt where the combination $\varepsilon \varepsilon^{\prime} \xi \varepsilon^{\prime \prime} \lambda \eta c$ is found, it is always used of a person released from military service, while the unit of those in active service is given simply by the genitive, e.g., BGU I 69.1 (120),
 he may indeed have been exempt from military service.
 comm. In the Greek papyri from Egypt, it is used both of regions of a village (e.g., P. Amst. I 47.7) and larger districts (e.g., P. Michael. 40). In the Nessana papyri, the corresponding expression is ópíov $\pi o ́ \lambda \varepsilon \omega c$ 'E $\lambda$ ov́cŋc, e.g., P. Ness. III 16.2 (512). Cf. 3948 comm.
 by the participle [ 0 be either $\gamma\left[v\right.$ vaıi $^{\prime}$ or $\gamma[\alpha \mu \varepsilon \tau \hat{1}$, and there is no further space at the end of the line. Thus, Valens must be the name of her husband, and his patronymic was omitted here. Valens was a deacon, and his name was one of the most popular in Petra. A deacon Valens, son of Boethos, appears as a witness in $\mathbf{4 3}$, but, since the document is dated to 592/93, it is unlikely that the persons could be identical.

9 [ $\dot{\varepsilon} \pi \varepsilon i ́] \pi \varepsilon \rho \kappa \alpha \tau \grave{\alpha}$ हैv $\gamma \rho \alpha \varphi \rho \geqslant\left[\begin{array}{c}\varepsilon\end{array}\right] \kappa \lambda \eta \mu \psi \imath v$ : this is a typical way in Petra to introduce the actual contents of a document, after the opening
 cf. 34,4 4, 253.
 II, pp. 6-7).
 in the first person, and the deacon Valens. As the number of missing letters at the end of lines cannot be exactly known, it is not sure whether $[\dot{\varepsilon} \mu \mathrm{o} \hat{\mathrm{v}}$ ] was the last word in 1.9 or if it was followed by [ $\kappa \alpha i]$. The most likely supplement in the next line has five letters, so this line could hardly contain [ $\dot{\varepsilon} \mu \circ \hat{v}$ к $\alpha i ̀ \tau o v ̂] . ~ T h e ~ g a p ~ a t ~ t h e ~ b e g i n n i n g ~ o f ~ 1 . ~ 10 ~ s p a n s ~ c a . ~ 15 ~ l e t t e r s ~ a n d ~ p r o b a b l y ~ i n c l u d e d ~ V a l e n s ' ~$ honorific title. However, the letters before Ovớd $\ell \varepsilon v \tau o c$ are very uncertain, and we would expect the honorific to be abbreviated, as in 1. 7. Moreover, as Valens was already mentioned in 1.8 , he should here be provided with [ $\tau 0 \hat{\varepsilon}$ عipn $\mu \varepsilon ́ v o v$ or $\alpha v ̉ \tau o \hat{v}$ ], followed by the abbreviated honorific. If he was dead (see Introduction above), the title should have been $\mu \alpha \kappa \alpha \rho \iota \omega \tau \alpha ́ \tau o v, \mu \alpha \kappa \alpha \rho($ ), or $\mu \alpha \kappa \alpha \rho ı \omega \tau()$;


 on fr . Cg 15 pose a problem, since there may be several layers on the fragment (note that, in both Fold 8 and 12, the corresponding fragment or a part of it is missing). The upper part of Cg15 seems to belong in this Fold 10, since the lowest tips of the iota and rho in 1. 8 cipn[ can be seen at the fragment's uppermost edge, as well as the right edge of the omikron in 1.9 हैv $\quad$ popoy. In the lower part of the same fragment, the lowest line, which should come from 1.10, clearly has an omega with a vertical stroke above it. If this stroke is of the same layer, $[\mu \alpha \kappa \alpha \rho 1] \omega \tau(\alpha \dot{\tau} \sigma v)$ is a possibility, abbreviated as usual with the tau written above the omega and its horizontal stroke hidden under a piece on top. However, the space after Ovớ $\lambda \varepsilon v \tau$ oc is perhaps too narrow for $\mu \alpha \kappa \alpha \rho 1$. After the omega, the next traces could be alpha and $n u$, but the following traces do not suggest $\alpha, v \delta \rho o ́ c$ cov or similar. Another possibility is that, after the
 $\kappa \omega ́ \mu \eta ̣ c$, and Sadaqa is elsewhere in Petra always called ка́c $\tau \rho o v$, not к$\dot{\mu} \mu$ (see below). However, it seems odd that the village would be mentioned before the location of the plot in 1.12, and the vertical above the omega remains inexplicable.

 would be a natural supplement, cf. P. Oxy. LXIII 4388.7 (423), $[\pi] \alpha \rho \varepsilon \imath \lambda \eta \varphi \varepsilon ́ v \alpha \imath ~ \pi \alpha \rho \alpha ̀ ~ c o ̂ ̂ ~ \mu ı c \theta \omega \tau \iota \kappa \hat{̣}$ סıкаí $;$ P. Coll. Youtie II 72


 literature; see P. Petra II, pp. 3-4. In 17, it always appears in the formula tò $\beta \alpha \theta$ ov $\rho \gamma \varepsilon \theta \dot{\eta} v$ (r. $\beta \alpha \theta$ ovp $\eta \eta \varepsilon$ と̀v) $\delta i \grave{\alpha}$ tov̂ $\delta \varepsilon i ̂ v o c$ and refers to a lease or working contract of a new vineyard, where the planting of vine requires deep tilling, in contrast to old vineyards, the lease

 the plural genitive twice in Egypt, but four times in the Petra papyri (29 97, 234, 39 131, 52 27-28; see 39 131-33 comm.). In Petra, the phrase generally (except possibly in 39 ) refers to the past. The passage shows that there already existed a lease between Monaxios and Valens, and this document, between the same lessee and Valens' wife, was drawn up after some changes had taken place (see Introduction above).



 be masculine or neuter, $\chi \omega \rho$ íov is the obvious alternative. After $\lambda] \notin \chi o ̛ ̣ \mu \varepsilon \varphi o v, \tau o ́(\pi o v)$ seems here to be meant as a part of the plot's identification, while Ei $\lambda \cdot[$ is the beginning of the Arabic name. The participle $\lambda \varepsilon \gamma o ́ \mu \varepsilon v o c$ is somewhat more frequently used in Petra than $\kappa \alpha \lambda$ ov́ $\mu \varepsilon v o c$. On $\mathrm{fr} . \mathrm{B}_{2} \mathrm{R} 8$, there is a curve that could be the lower part of a lambda or epsilon. The dot after it seems to fit better a gamma than epsilon or omikron, and the probable location of the fragment favors $\lambda$ ] $\chi \chi$ ọ́pevov.
 is no trace of the high vertical of an eta. For the word beginning with $\delta \iota \kappa[, \delta \kappa \kappa[\alpha]!\varphi$ is the most obvious supplement, though the last letters are ambiguous. Here, the word presumably refers somehow to the administrative district of Sadaqa. For different interpretations of the term Síkalov in estate documentation, see Hickey, Wine, Wealth and the State, 58-61. Hickey understands it as a fiscal reference to a holding that has retained the name of its former owner in an unrevised fiscal register. The examples discussed by him, however, refer to former personal properties, not to the administrative area of a village, as here. We simply note a possible connection with the mysterious abbreviation $\delta \varepsilon 1 \kappa()$ in 62 (see Introduction to 62, p. 193). At the end of the line, the plot's location is further clarified by
 $[\varepsilon \bar{\varepsilon} v \gamma v \tau] \bar{\varepsilon}[\rho] \omega$. If the village is not Sadaqa itself, it must have been mentioned before, probably in 1. 10. It may be noted that, elsewhere in the Petra papyri, Sadaqa is called a garrison, кác $\tau \rho \circ$ (as here ll. 6-7), not a village, кǿ $\mu \eta$.

 the case here, as $\dot{\varepsilon} \varphi \varphi^{\prime}$ ő is also found in the Greek papyri from Egypt, e.g., P. Cair. Masp. II 67158.23 (568); P. Lond. V 1677.13 (568-70), and since the orthography of this scribe does not have the variation $\omega / \mathrm{o}$ except $1.12 \mathrm{Z}[\alpha] \underset{\rho}{\mathrm{Z}}[\alpha] \kappa[\alpha] \theta \mathrm{o} v$ (but with omega in 1.6). The expression can be construed with the verb either in the indicative or infinitive. We have supplemented the verb in the present infinitive, following the two cases in Petra where the construction is clear ( $\mathbf{1 1} \mathbf{7} ; \mathbf{5 1} 23-27$ ), but it could equally well
 III 67313.43 ( 6 th c.). It is abbreviated $\left.\alpha \mu() \varphi()^{\prime}\right)$ in P. Bingen 109.24, 27, $38(212-50)$ and Chr. Wilck. 232.10 ( 115 b.c.), and in the latter opened $\dot{\alpha} \mu(\pi \varepsilon \lambda o) \varphi o ́(\rho o v)$. In literary sources, only $\dot{\alpha} \mu \pi \varepsilon \lambda о \varphi o ́ \rho o c ~ i s ~ f o u n d, ~ u s u a l l y ~ w i t h ~ \gamma \hat{\eta}, ~ " b e a r i n g ~ v i n e " ~ o r ~ " s u i t a b l e ~$ for viticulture."

 land mentioned in this former lease. A plausible supplement would be [ $\tau \grave{\jmath}] \chi \varepsilon \omega \in[\rho] \chi \varepsilon ฺ 10 v$, but the letter after the epsilon does not seem to be omega (or omikron).
 $\beta$ ov $] \lambda \eta \theta \varepsilon i ̂ c \alpha$, possibly preceded by к $\alpha i ́$. After that, $\dot{\eta}$ cń seems to be the only possible interpretation of the letters which are clear
 Petra papyri, but cf. $\alpha \dot{\delta} \delta \varepsilon c \neq o ́ \tau \eta c$ in $\mathbf{3} 7,10 ; 4811 ; \mathbf{5 3 ; 2 5}, 9$; and $\lambda \alpha \mu \pi \rho o ́ \tau \eta c \mathbf{4} 5$. Similarly, $\varepsilon v ̉ \lambda \alpha ́ \beta \varepsilon ı \alpha$ as an address is frequently found in the Greek papyri from Egypt. The traces of $\varepsilon[\hat{v}] \lambda[\alpha] \beta$ are on fr. $\mathrm{B}_{3} \mathrm{~B} 28$, while the uncertain traces of $\varepsilon_{\mathrm{i}}$ í $\alpha$ come from the upper edge of fr. d5.

Afterwards, one would expect an infinitive connected with [ $\beta$ ov] $\lambda \eta \theta \varepsilon i c \alpha$. There is a low curve of a letter in the upper-right corner of fr. d 5 which could be from a beta. The clearly visible traces on the lower edge of fr. $\mathrm{B}_{2} \mathrm{~L} 5$ are ambiguous and may not represent the same layer. After the gap, the ink has faded so that almost nothing can be discerned. The letters . c $\alpha$, , if correctly read, probably end the expected infinitive. After that, there may be faint traces of two high verticals. A possible but very speculative supplement is


 a period of joint possession) divided the vineyard. Subsequently, the widow had either wanted to confirm the validity of the former lease or had to accept the lessee's renunciation (see Introduction above).
 elsewhere. The sense would be "as much as belongs to you of it," sc. of the plot cultivated by the lessee. Cf., e.g., P. Cair. Goodspeed 13.5

 with tov̂ ह̇vıavtov̂, does not suit the context. The line consists of many small fragments, some of which could not be placed exactly. We


 expression may refer to the end of the period determined by the original lease, which might have elapsed and been continued with only a tacit agreement (relocatio tacita): this was not uncommon (Hickey, Wine, Wealth, and the State, 20, 78). The change of ownership may have made it desirable to confirm the agreement in writing.

 contract's history. In the next word, phi seems clear, and, as $v \omega$ most likely is the first person singular ending, $\varphi \theta[\alpha, \alpha] v \omega$ is an obvious choice for the verb. It appears in the papyri often with an aorist or perfect participle or infinitive, referring to a previous action ("I
 SB XVI 12331.9 ( $2 \mathrm{nd} / 3 \mathrm{rd} \mathrm{c}$.), $\varphi \theta \alpha \dot{v} \omega$ к $\alpha \tau \alpha ́ \gamma \rho \alpha \psi \alpha 1$. Here, the construction as well as sense remain unknown. The following $\tau \omega$ probably is a dative article $\tau \hat{\varrho}$, since the last visible trace does not look like a $n u$.

 beforehand with, get ahead of," the participle could refer to the person whose actions were overtaken. It cannot refer to the lessee Monaxios, since it is in the accusative, and, at any rate, the genitive $\alpha$ oj $\tau$ ov ("his") most naturally refers to this same person. The
 verb is on small fragments. If the verb is a form of $\dot{\alpha} \kappa о \lambda o v \theta \dot{\varepsilon} \omega$, the prefix cannot have more than two letters, e.g. $\dot{\varepsilon} \xi$, or, more likely,
 would be a likely phrase, though the compound $\varepsilon$ iccaкодоv $\theta \dot{\varepsilon} \omega$ is not found in the extant Greek sources. The compounds of $\dot{\alpha} \kappa 0 \lambda$ оv $\theta \dot{\varepsilon} \omega$ are usually intransitive verbs, meaning "to follow" (in different senses); this means that the plural accusative tov̀c aviṭô $\chi$. . [ ]
 that someone would be willing to take on the lease after Monaxios, that is, substitute him as lessee. As the verb is not known from papyri, it is difficult to judge if it could possibly mean either "follow as a lessee" or "inherit the land." The new lessee would then probably be the Obodianos in 1. 23. See Introduction above for the two alternative scenarios behind the document.
 or sowing, which proved too costly for Monaxios (cf. 11. 18-19). The phrase $\varepsilon$ icc ( $\tau \grave{\eta} v$ ) $\gamma \hat{\eta} v$ appears in the Greek papyri from Egypt
 cannot read tov̂ גủtov̂. At the end of the line, the letter following chi could best be an upsilon, although the scribe almost always writes it with a sharply angular lower part; a rounded upsilon is visible only as the second letter of 1.7 avitov̂. Less likely possibilities are alpha or epsilon, while omega is quite unlikely. Of the following letter, only a smudge of ink is visible, unless we read upsilon and $m u$ written as a ligature. It is unlikely that a letter with a long downward vertical would follow, as nothing is visible on the fragment below. Palaeographically possible words connected with viticulture are those beginning with $\chi \alpha \mu \alpha 1$, cf. Geoponica $5.2 .14-15$, where

 and ground-trained vines," transl. Dalby). This kind of vine is also called $\chi \alpha \mu \mathrm{i}$ tıc (Geoponica 3.1.5). As the noun is here preceded by
 often found in the phrase $\dot{\varepsilon} v \chi \dot{\sim} \mu \alpha \tau \tau$, referring to the measure used by the cultivator, cf., e.g., CPR XIV 4.11 ( 6 th c.).

 $\dot{\alpha} \pi$ отócco $\alpha_{1}$ with the dative usually means "part from somebody" or "renounce, give up something" (see LSJ s.v. IV). Here, "I gave up that kind of lease" would make sense.
]. . . . . $\rceil \subset \varepsilon v$ [: possibly the end of the third person singular aorist, or to be divided as ]. . . . . $ๆ \mathrm{c} \varepsilon \mathrm{\varepsilon} v[$.



 top of the eta of $\gamma \vee \omega \dot{\mu} \geqslant \boldsymbol{\eta}$ in 1.21 ; it is too low for an epsilon and perhaps too narrow for a lambda, but could be a beta, perhaps $\tau[\dot{\eta} v]$ $\beta[\varepsilon \beta \alpha i ́ \omega c \imath v]$.

к $\alpha$ [ $\tau]$ ò $\delta \eta \lambda \omega \tau[1] \kappa o ̀ v$ čv $\gamma[\rho \alpha \varphi o v]: \delta \eta \lambda \omega \tau \iota \kappa o ́ c$ is likewise very rare in Greek papyri; the only other instance is P. Münch. I 2.14-15
 हैvy[papov was here used as a noun, not an adjective, since there is hardly space enough for a neuter noun at the end of the line. The sense "agreement, document" for $\varepsilon$ हैv $\gamma[\rho \alpha \varphi o v$ also makes the seeming tautology with $\mathcal{\varepsilon}[v \gamma] \rho \alpha ́ \varphi \omega c$ less apparent.
$21 \alpha v ̉ \theta \alpha \iota \varepsilon ́ \tau \omega:$ the beginning of this word was on the left side of fr. $\mathrm{B}_{2} \mathrm{~L} 9$, the right side belonging to $11.17-18$. It is only visible on the first photographs (from which it is reproduced in Pl. LXXVIII), as it was later removed in an attempt to read the layer underneath.
 denote the item which is renounced, the feminine noun $\bar{\epsilon} \kappa \lambda[\eta \mu \psi \varepsilon 1$ is an obvious choice (cf. 11. 10, 14, 19, 24). On fr. B B38, where the end of the word should be, it cannot be seen: the visible traces come from other layers. The subsequent participle, $\varepsilon^{\prime} \rho \eta \mu \varepsilon ́[v-$, most


 have contained Obodianos' honorific.

23 'Oßoסı $\alpha v o$ v̂ No.[. . .]. tíov к $\alpha \theta$ ocı $\omega \mu$ ќvov: if this Obodianos was a relative of Theodoros, son of Obodianos, it would explain the document's presence in the archive. The trace following No- looks like the beginning of $n u$, but it might be pi or perhaps eta or upsilon. However, we have found no name beginning with Nov- (or No $\pi-$, Non- or even חov- etc.) and ending with - $\tau$ íov or - $\gamma$ íov. Among names starting with Nov-, Noṿ[ $\mu \alpha]$ tíov could be possible. The name may recur in the poorly preserved signature in 1.37 . As Obodianos' title points to the army, he might have belonged to the garrison of Sadaqa, like the prior Monaxios.
 $] \lambda \alpha i$, there are two separate fragments labeled $\mathrm{B}_{2} \mathrm{~L} 7$, with the letters ] $\alpha \mathrm{c}$ [ and $] \delta \varepsilon$. [, where the last letter may be delta or omikron. The letters of the latter fragment do not quite correspond to the usual forms of delta and epsilon of $\mathbf{m} \mathbf{1}$, but might be possible. It is tempting to take the first fragment as the end of $[\pi \alpha] \lambda \alpha i ́ \alpha c$. However, the second fragment with $] \delta \varepsilon$. [ does not tally with the following $] \lambda$ ov́cnc, which appears to be the feminine singular participle linked with the genitive $\dot{\varepsilon} \kappa \lambda \eta \mu^{\mu} \mu \varepsilon \omega c$, with two to four letters between it and $[\pi \alpha] \lambda \alpha i ́ \alpha c$. Possible verbs are, e.g., ỏ $\varphi \varepsilon 1] \lambda$ ov́cŋc or $\mu \varepsilon \lambda] \lambda$ ov́cŋc, "the said old written lease which should be / shall be valid."
 belong here in Fold 17 at all, as the sequence of the fragment series $B_{2} L$ has obviously been confused both in Folds 11-17 and later (see 1.33 comm.). However, the way the lines run on this fragment does match with Fold 17.


 $\dot{\varepsilon} \mu$ о̂ каì [ 4-9 ]: cf. 11. 39-40. These words seem to summarize the many different terms of the earlier agreement as regards the various works required in the vineyard and the sharing of products between the landlord and lessee, cf. the details of viticulture in Rowlandson, Landowners and Tenants, 228-36, with Tables 15-16, pp. 324-26. These details were not dwelt upon again in the present document. The iota of $[\pi \hat{\alpha} c]$ is visible on the bottom layer of fr. $\mathrm{B}_{3} \mathrm{~B} 38$ (Fold 16). At the end of 1.26 , the other party is apparently either cov̂ or $\alpha \cup \mathfrak{\tau} \tau 0 \hat{v}$. The latter would perhaps not be clear enough as a reference to Valens (who has been last mentioned, as far as we can discern, in 1.10), especially since the name of Obodianos was mentioned in between. However, in 1.28 av̉zov̂ most probably does refer to Valens. Furthemorer, the clauses in 11. 24-26 seem to emphasize the continuity of the terms of the original agreement made with Valens. If the present contract was intended to confirm the lease between Monaxios and Hyperechia, 1. 26 could be restored $\mu \varepsilon \tau \alpha \xi]$ ì $\varepsilon \mu \circ \hat{v}$ кגì [cov̂]: all the former terms should now be valid between them, as far as her part of the plot was concerned.

 lambda are characteristic enough to make the reading plausible, and it is tempting to see here a form of $\pi \alpha \rho \alpha \lambda \alpha \mu \beta \alpha{ }^{\prime} \nu \omega$, perhaps

 $\pi \alpha \rho ’ \dot{v} \mu \hat{\varrho} \varphi \mu \varepsilon \tau \alpha \pi \alpha \rho \alpha \lambda \eta \mu \psi о \mu \varepsilon ́ v o v c$.


$\alpha v ̉ \tau o \hat{v}$, evidently referring to the feminine lessor and her deceased husband. Cf. BGU I 98.6-7 (211), દ̇ $\pi \grave{\imath} \kappa \lambda \eta \rho o v o ́ \mu o ı c ~ \tau o i ̂ c ~ \gamma \varepsilon \gamma o v o ́ c ı ~$ દ̇彑 દ̇นov̂ каì ఎv̉тоv̂.
 gap before $\tau 0 \hat{\mathrm{v}}$ seems to require a preposition, which in corresponding phrases is usually $\pi \varepsilon \rho$ í and sometimes $v \pi \varepsilon ́ \rho$. For the phrase, cf.


 the secure nine letters at the end of 1.4 and the hypothetical supplements in the next lines 29-30 (13 and 4+8 letters respectively).

The first letter of the neuter word referring to the type of document has a curving lower part, ruling out such words as $\dot{v} \pi o ́ \mu \nu \eta \mu \alpha$,



 word referring to the agreement is not visible.



 meaning and use of $\alpha, \pi o \lambda v ́ \omega$, Latin absolvere and dimittere, see P. Petra III, p. 5. Fr. B2L8 apparently has two layers, with ope on a small piece of the top layer, while the subsequent vague traces are on the bottom layer and should come from 1. 33.
 rarely found in the Greek papyri of Egypt (see $1854-55$ comm. and add P. Prag. I 33.17, кал $18 \mathrm{c} \pi$ íc $\tau \varepsilon \omega c \pi \alpha \rho \grave{\alpha}$ [ ). It is certainly no coincidence that it is frequently attested both in Petra (177-79, 18 54-55, 29 201-4 [with a reference to "both parties"], 218-19,
 65.14 (131); SB XXIV 16171 = P. Euphr. 10.19-20 (250); 16170 = P. Euphr. 9.27-28 (252); P. Dura 32.19 (254); in the two latter ones, the restored $\dot{\varepsilon} \pi \varepsilon \rho \omega \tau \eta \theta \varepsilon$ íc $\eta c$ might be better read as $\dot{\varepsilon} \pi \varepsilon \rho \omega \tau \eta \mu \varepsilon ́ v \eta c$, as in the other examples. Note also SB XXIV $16169=\mathrm{P}$. Euphr.
 $\pi \alpha \rho \grave{\alpha}$ cov̂ and coî $\mathfrak{v} \pi$ ò $\begin{gathered}\mu\end{gathered}$ ov̂ are added to the participles. Cf. also 603.
 letters. The end of the line is problematic. The rank of prior would be expected here, and there is a pi followed by a faint vertical trace, but the next letters are on a combination of three fragments, the exact positions of which are not certain. The present positions are chosen on the basis of the fragments in the neighboring even folds. The letters on these fragments look like ] ! po. [, and the last one cannot be rho. A small omikron between the iota and rho is unlikely. It thus seems that Monaxios has written his rank erroneously. In fact, the letters resemble more $\mathbf{m 1}$ than $\mathbf{m 2}$, but there is no place where such a sequence could be found in the nearby folds, and the fragments do resemble the corresponding ones found in the neighboring Folds 18 and 22.
 After that, the article $\delta$, usual with $\pi \rho o \gamma \varepsilon \gamma \rho \alpha \mu \mu \varepsilon ́ v o c$, would be expected, though the letter looks rather odd for an omikron. After $\pi \varepsilon \pi \circ[i ́ \eta \mu \alpha 1$, there should follow the type of the document made, as was usual in the Petra papyri, e.g., тŋ́v $\delta \varepsilon$ тǹv हैк $\lambda \eta \mu \psi i v / \tau o ́ \delta \varepsilon$ đò ó $\mu \mathrm{o} \lambda$ ó $\gamma \eta \mu \alpha$. There is, however, not enough space for such an expression, since it should be followed by $\varepsilon$ ic $/ \pi \rho$ òc cè $\tau$ ìv, before $[\varepsilon \cup \cup] \lambda \alpha \beta \varepsilon c \tau \alpha ́ \tau \eta ̣$, at the beginning of the next line. It is thus more likely that the other contracting party was here mentioned straight

 corrected into eta. After that, there should follow the name of the lessor. As the letters $\varepsilon \rho \varepsilon \chi 1$ are rather clear, ${ }^{\circ} \mathrm{Y} \pi \varepsilon \rho \varepsilon \chi i ́ \alpha v$ is a likely candidate. This name, the female counterpart for the masculine ${ }^{〔} Y \pi \varepsilon \rho \varepsilon ́ \chi$ юc, is found in P. Lond. V 1761.9 (6th c.), P. Lond. III 1028.15 (7th c.), and P. Sorb. II 6 (618-34).
 the article is not clear, though the neuter used for the agreement in 1.29 would suggest a neuter here, too. There could be a word-end in -vov, which does not solve the question of gender. After this, there is on the lower piece of fr. $\mathrm{B}_{1} 10$ a rounded trace, too flat to be an omikron, and on the lower end of the upper piece a diagonal curving to the left, which together could form a delta. It should be noted that placing the fragments from the series $B_{2} L$ and $B_{2} R$ in the signatures is very uncertain, especially in the uneven folds. Thus,
frs. $\mathrm{B}_{2} \mathrm{~L} 2$ and $\mathrm{B}_{2} \mathrm{R} 2$ (the latter with ]. $\varepsilon v$. . [ ) may not belong here, and we have found no place for fr. $\mathrm{B}_{2} \mathrm{~L} 1$ (the two $\mathrm{B}_{2} \mathrm{~L}$ fragments do not offer legible letters). From this line onwards, we cannot give any continuous text for the signatures. The fragments are marked as separate with a vertical stroke ( $\mid$ ) where a lacuna does not make it self-evident. The fragments in the different stacks are given mostly in the order in which they were marked by the conservator, but some of them may very well belong somewhere else. The letters are often illegible, and it is mostly impossible to identify the phrases which, though partly formulaic, are used in slightly different ways in Petra. There are several different hands, probably of the witnesses, but it is difficult to establish the places where the hands change, as it seems to happen in the middle of the lines, as in 11.31 and 47.
 difficult to know, but the form of the fragments in the neighboring even folds suggests this location. The first visible trace could
 "different plots of the landlord and vacant lots." The term is often used of the part of the profit belonging to the landlord, e.g.,
 accusative, it may refer to the half of the plot belonging to the landowner (cf. 1.15), and thus may be the object of a preceding verb mentioning the agreement's purpose. The traces before $\gamma \varepsilon \sigma \chi \chi \kappa 0 \hat{\imath}$ do not suggest $\chi \omega$ píov, but $\tau \underset{̣}{〔}[\pi \mathrm{o}]$ p̣ might be possible. However, the position of fr. Cg 10 with ] $\mathbf{\varphi}$ [ (with next line ] $\pi$. [ ) is uncertain. In the numerical order, the fragments Cg 11 and 10 should be in the Folds 22 and 24, respectively. We have changed the order, since the position of the lines in fr. Cg 10 does not match the lines in Fold 24, and the reading of fr. Cg11] $\operatorname{cv}[$ might make sense in Fold 24.
 there may be a participle connected with the accusative $\mu \varepsilon ́ \rho o c$, followed perhaps by cọ i . The most common word ending in ] $\rho 0$ in the Petra papyri is ${ }^{\prime} \gamma / \bar{\prime} v \gamma \rho \alpha \varphi \rho v$, but it would be surprising here, as the type of the document had probably already been mentioned


 not clear. It should be followed by the father's name, as in 1.23 , where we read No. [. . .]. tíov. Here, it might be possible to discern Nọ-, but the rest of the letters are almost invisible. At the end of the line, ]. plov may represent the end of a word, but such words as, e.g., к]ụ́pıov or $\chi]$ @píov do not offer any suitable formula, nor do the preceding very uncertain fragments provide any help. We have placed fr. $B_{1} 8$ with ]. prov. [ in this fold, since $B_{1} 7$ clearly belongs in the next uneven Fold 25, where the upper parts of the letters match the letters of $B_{1} 33$. The upper and lower traces of $B_{1} 8$ may also possibly match with the neighboring folds. This arrangement is supported by the fact that $\mathrm{B}_{1} 7$ should be the last fragment written by Monaxios, since the next uneven Fold 27 has been written by another hand. However, the arrangement is still problematic, leaving fr. $B_{1} 9$ without a place, as $B_{1} 10$ certainly belongs in Fold 21, which is the first uneven fold written by Monaxios. Fr. $\mathrm{B}_{1} 9$ is awkward also because its parts do not correspond to the form of the neighboring $\mathrm{B}_{1}$ fragments. It may have been numbered erroneously and actually belong somewhere else. Almost nothing is visible on the two parts of $\mathrm{B}_{1}$ 9. They are left out of the reconstruction and now placed at the right edge of Pl. LXXIX.

 lines 24-26 of the agreement proper, where its validity as to the cultivation, care, and profit of the vineyard is stressed in the same way.
 The accusative $\delta v ́ v \alpha \mu i v$ appears in the Petra signatures in different formulas confirming the force of the agreement, e.g., 184 (cf. 92 )



 and $\eta$, cf. 1.33 with comm. Fr. $B_{3} B 36$, containing the letters ] $\alpha c ̣$ caì, should according to its number belong in Fold 28, since fr. $\mathrm{B}_{3}$ B35 belongs in Fold 26, but this location does not appear likely, as the letters certainly were written by $\mathbf{m} \mathbf{2}$, which should not be found in Fold 28. We have tentatively put it in 1.40 , where it is in an anomalous sequence, but cf. Fold 20, where $\mathrm{B}_{3} \mathrm{~B} 37$ certainly connects with $\mathrm{B}_{3} \mathrm{~B} 32$, and Fold 16 with $\mathrm{B}_{3} \mathrm{~B} 38+30$ (and in Fold 18 probably $\mathrm{B}_{3} \mathrm{~B} 38$ part +31 ); cf. also the firm position of fr. $\mathrm{B}_{3} 35$ in Fold 26.
 Here, we could think, e.g., of $\gamma \varepsilon \sigma v \chi 1] \kappa \eta \hat{\eta}$, or $\left.\dot{\alpha} \mu \pi \varepsilon \lambda_{1}\right] \kappa \hat{\eta}$. Both supplements neatly fit with the space of the lacuna.

 or perhaps the end of a personal name if the subsequent word would be supplemented as $\dot{\alpha} \gamma o \rho \alpha \dot{c}[\alpha \mathrm{\alpha}$. However, the placement of the
fragment numbered $B_{2} L 4$, which consists of two fragments, ]. үo $\alpha$, . (less likely ] ]opa.[) and ]. $\alpha \kappa$.[, is problematic. The second fragment is placed by the conservator to the right of the first, thus actually appearing to represent the series $\mathrm{B}_{2} \mathrm{R}$. Moreover, fr. $\mathrm{B}_{2} \mathrm{~L} 4$ clearly has two layers, and it is impossible to say which is the topmost (i.e., from the fold nearer to the roll's core). The upper part shows traces of letters in two lines. The traces in the lower line could be, e.g., from an epsilon and delta. As the form of the left part of $B_{2} L 4$ is exactly same as of $B_{2} L 3$, it must come either from the preceding or the following uneven fold, as also the number indicates. We have now placed the lower part (supposing it to be the topmost layer) in Fold 25 and the upper part (the bottom layer) in Fold 27. This arrangement is seen on Pl. LXXIX, and the whole fr. $\mathrm{B}_{2} \mathrm{~L} 4$ is shown at the plate's right edge. The location of the right part of fr. $\mathrm{B}_{2} \mathrm{~L} 4$ with ]. $\alpha \kappa$. [ is quite uncertain. In this position, it really would represent the stack $\mathrm{B}_{2} \mathrm{R}$, nor does it yield any sense in this place. We cannot be sure if it really came from the right side of the first fragment or if it rather represents a layer on top of the upper part of the first fragment, in which case it would derive from 1. 41.
 phrase is plausible, since $\stackrel{\alpha}{\alpha} \kappa \boldsymbol{\lambda} \boldsymbol{\lambda}$ ov́ $\theta$ ọc (l. $-\theta \omega \mathrm{c}$ ) is clear enough, cf., e.g., $29249,275,288$. The text of this signature may have ended
 in 1.29 , a similar formula, with minor variation, would seem likely. The meagre traces in 1.45 could belong to the same hand.

46 ]cıv . . . . [: this seems to have been written in a different, more cursive hand. However, the fragments at the beginning of the line show a different kind of handwriting, so the fragments in this and the following lines may not all be in their appropriate folds. From here onwards, the line numbers do not purport to reflect the original text, but are given solely for the purposes of the index. Only words or letters discussed in the commentary are given in the transcript.
$47] \dagger \Phi \lambda\left[\left(\alpha \alpha_{0} \mathbf{o v i o c}\right):\right.$ a new signature (perhaps of the second witness) begins. The number of witnesses in Petra was usually three or five (as is likely here); for this and the use of witnesses generally, see P. Petra III, p. 4.

48 ]. $\tau . \ldots$. . $\rho$.[: it might be possible to read here ]. $\tau . \pi \alpha \rho \underline{̣}[\mu \eta \nu \kappa \alpha i ̀ \mu \alpha \rho \tau v \rho \hat{\omega}$, ending the signature.
]. $\varphi$. [: there is a conspicuous phi, which might be the beginning of another signature by a $\Phi \lambda\left[\left(\alpha \alpha^{\prime}\right.\right.$ ovioc), ending perhaps in the next line with $] \chi!\rho i \in \varepsilon \in[\hat{\imath}$, if fr. c7 is in the right fold; the space seems, however, rather short. This might be the third witness.
$50[\pi \alpha \rho] \underline{̣} \mu \varepsilon v$ к $\alpha i ̀ \mu[$ : this must be the signature of another witness, probably of the short type seen, e.g., three times in $2876-78 \mathrm{NN}$
 show traces of a largish hand written with a thin kalamos. There are, however, fragments with several different hands, which are now presented in the numerical order of their series, but, as they occur scattered among the fragments of the largish hand, they must have been somehow confused.

51 (F40) $\mu \varepsilon \tau \alpha \xi v \begin{gathered}\mathrm{q} \eta[\text { : this was written by a large and practised cursive hand which we find already at least in Fold 32. It seems to be }\end{gathered}$ a signature of a longer type, like those in, e.g., 29 289f., where the signatures of five witnesses of the type NN $\pi \alpha \rho \eta \mu^{\prime} \mu \nu \tau \eta ̂ \pi o u ́ c \varepsilon \imath$
 final signature.

M. Kaimio, M. Lehtinen

## P. Petra V 59: The Reconstructed Order of the Fragments

The roll was found next to 39. It was broken up into three sections, of which the ones labeled B1 and B2 were to the north of part A of $\mathbf{3 9}$, while the section labeled B3 was to the north of part C of $\mathbf{3 9}$ (see P. Petra IV, p. 43, Fig. 1). The fragment series labeled Cg , situated to the north of the western side of part Ca of $\mathbf{3 9}$, belongs together with section B. It fits between the fragments labeled $B_{3} B$ and $B_{2} L$. The lines begin with fragments labeled $L$ (eft), which preserve the left margin. The right margin is nowhere preserved, as the roll was broken after section B1. The numbering of the series $B_{3} B$ and $B 1$ shows that there were four empty folds (i.e., two whole revolutions of the roll) before the text began. The stack with the highest amount of numbered fragments is $B_{3} A / B$, where the $A-$ fragments continue up to Fold 42. The numbering of the series $B_{2}$ L is very problematic. It shows that the opening of this stack has not been done continuously from the top layers of the roll to the core and back as, e.g., with the stack $B_{1}$, but the conservator had to open the stack in several different batches of layers, the numbering of which follows the order in which she worked with them. Thus, there are several (possibly) blank layers numbered 26-33,
some of which probably came from the four blank folds in the roll's core and formed the top margin. However, the fragments numbered 23-26 and 34-43 contain traces of strokes and big letters written with a thin kalamos, resembling a hand found in the signatures and thus coming from the topmost part of the roll and from both even and uneven folds. These fragments are not included in the plates, as their position is quite uncertain.
The symbol < before a number means that the fragment erroneously bears the number of a certain stack and belongs actually to the series of the preceding stack (i.e., fr. $<9 \mathrm{~L}$, in the column of the stack $\mathrm{B}_{2} \mathrm{~L}$, belongs not to the stack $\mathrm{B}_{2} \mathrm{~L}$ but to the stack Cg ).

| Fold | Lines | L | $\mathbf{B}_{3} \mathbf{A} / \mathrm{B}$ L/M/R, e, c, h | $\mathrm{B}_{3} \mathrm{~B}$ | Cg d | $\mathrm{B}_{2} \mathrm{~L}$ | $\mathrm{B}_{2} \mathrm{R}$ | B1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  |  |  | 22 |  |  |  | 20 |
| 2 |  |  |  | 23 |  |  | 13 | 21 |
| 3 |  |  |  | 21 | 9 ? |  | 12 | 19 |
| 4 |  |  | M | 24 |  |  | 14 | 22 |
| 5 | 1 | -1 | B3BRM18 | 20 | 8 |  | 11 | 18 |
| 6 | 2-3 | 3 | M R1 | 25 | $17 ?$ | 13 | 15 | 23 |
| 7 | 4 | -2 | BRM17 | 19 |  |  | 10+9b | 17 |
| 8 | 5-6 | 4 | M R2 | 26 | 16 | 12 | 16 | 24 |
| 9 | 7-8 | -3 | BLR16 | 18 | 7 |  | $9 \mathrm{a}+8 \mathrm{c}$ | 16 |
| 10 | 9-10 | 5 | M R3 | 27 | 15 ? | 11 | 17 | 25 |
| 11 | 11-12 | -4 | BLR15 | 17L,16R | 6 ? | 8 ? | 8 ab | 15 |
| 12 | 13-14 | 6 | M R4 | 28 |  | 10 ? | 18 | 26 |
| 13 | 15-16 | -5 | BLR14 | 16L,17R | 5? d5? | 5 ? | 7 | 14 |
| 14 | 17-18 | 7 | M? R5? e2 | 29 | 14 ? | 9R, 22 | 19 | 27 |
| 15 | 19-20 | -6 | BLR13 | 15L, d3 | d1 | 6 ? | 6 | 13 |
| 16 | 21-22 | 8 | M el? | <38, 30 |  | <9L, 21 | 20 | 28 |
| 17 | 23-24 | -7 | BLR12 | 14L,15R | 3part?, 4 | 7 ? | 4 | 12 |
| 18 | 25-26 |  | $\mathrm{B}_{3} \mathrm{~A} 13, \mathrm{cl}$ | 31 | 13 | 20 | 21 | 29 |
| 19 | 27-28 | 8 | BLR11 | 13(R) | 3 |  | 3+5 | 11 |
| 20 | 29-31 |  | A12, M, c2, h2 | <37, 32 | 12 | 19 | 24 | 30 |
| 21 | 32-33 |  | BLR10 | 12 | 2 | 2 ? | 2 ? | 10 |
| 22 | 34-35 |  | A11, c3+4? | 33 | 10 ? | 18 | 22 | 31 |
| 23 | 36-38 |  | BLR9 | 11 |  | 3 ? | 1 ? | 8 ? |
| 24 | 39-40 |  | A10, c5 | $<36,34$ | 11? | 17 | 23 | 32 |
| 25 | 41-42 |  | BR8 | 10 | $1 ?$ | 4part? | L4part? | 7 ? |
| 26 | 43-45 |  | A9, c6 | 35 |  | 16 | 25 | 33 |
| 27 | 46-47 |  | BLR7 | 9 |  | 4part? |  | 6 |
| 28 | 48-49 |  | A8, c7 |  |  | 15 |  | 34 |
| 29 | 50 |  | BLR6 | 8 |  |  |  | 5 |
| 30 |  |  | A7, c8 |  |  |  |  |  |
| 31 |  |  | BLR5 | 6+7 |  |  |  | 4 |
| 32 |  |  | A6 |  |  |  |  |  |
| 33 |  |  | BLR4 | 5 |  |  |  | 3 |
| 34 |  |  | A5 |  |  |  |  |  |
| 35 |  |  | BLR3 | 4 |  |  |  | 2 |
| 36 |  |  | A4 |  |  |  |  |  |
| 37 |  |  | BLR2 | 3 |  |  |  | 1 |
| 38 |  |  | A3 |  |  |  |  |  |
| 39 |  |  | BLR1 | 2 |  |  |  |  |
| 40 | 51 |  | A2 |  |  |  |  |  |
| 41 |  |  |  | 1 |  |  |  |  |
| 42 |  |  | A1 |  |  |  |  |  |









[^0]:    1. For practical reasons, the code $\mathrm{C} \gamma$ is in this edition replaced by Cg , cf. P. Petra IV, p. 41, n. 5.
    2. See the lists in the introduction to P. Col. X 280; P. Soter., pp. 36-38; and the discussion by A. Jördens, P. Heid. V, pp. 233-59; Rathbone, Economic Rationalism, 188-95; Rowlandson, Landowners and Tenants, 228-36, 324-26; Dry, Lease of a Vineyard, 99-100; Hickey, Wine, Wealth and the State, 39-89 (on the Apion estate).
