

STUDIES IN THE EARLY MEDIAEVAL
ARCHITECTURE OF IRAN AND AFGHANISTAN

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Studies in the Early Mediaeval
Architecture of Iran and Afghanistan

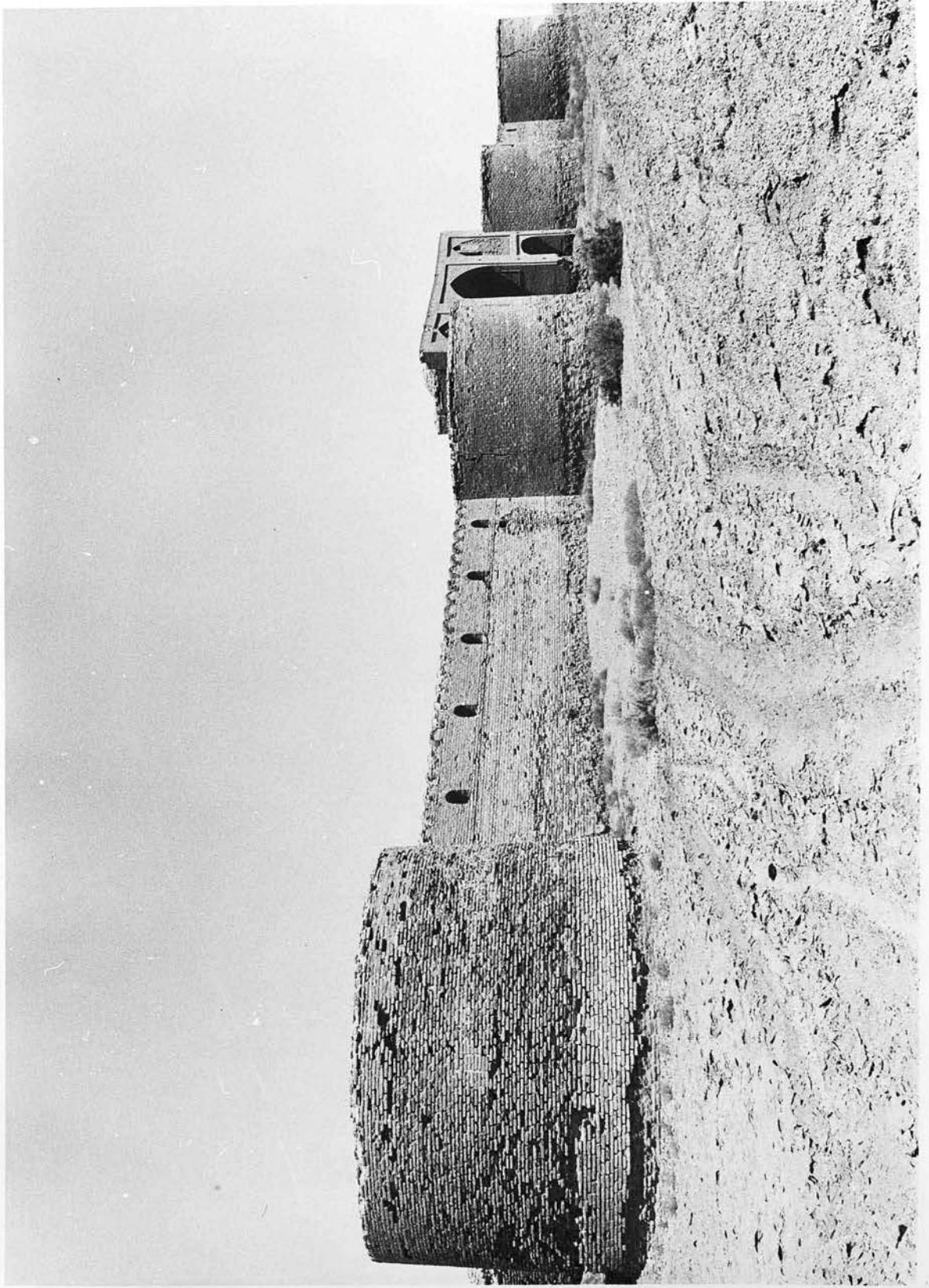
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A thesis submitted in fulfilment for the degree of
Ph.D. at the Heriot-Watt University and the Edinburgh
College of Art, Edinburgh.

September, 1978.

Department of Architecture,
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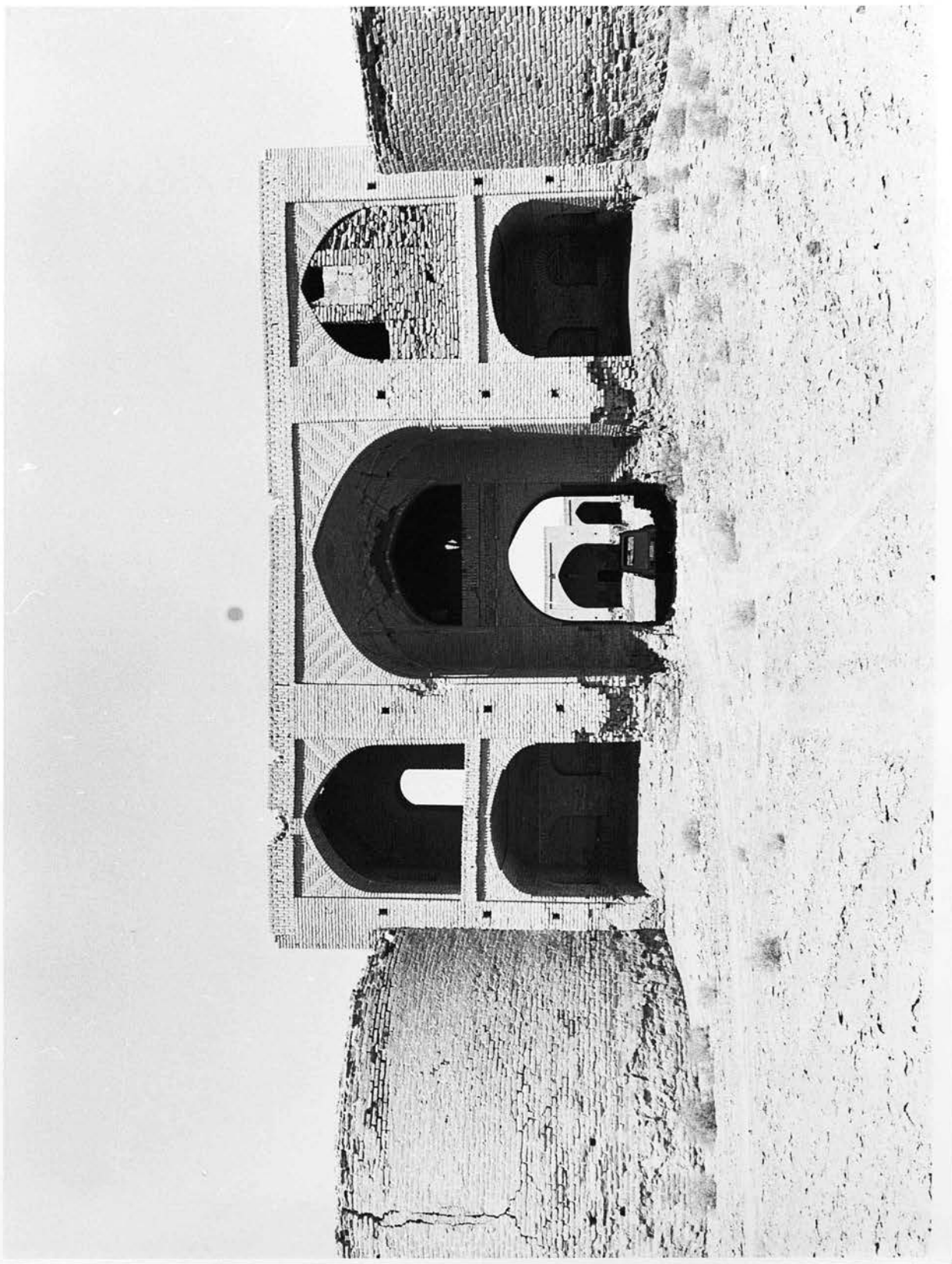
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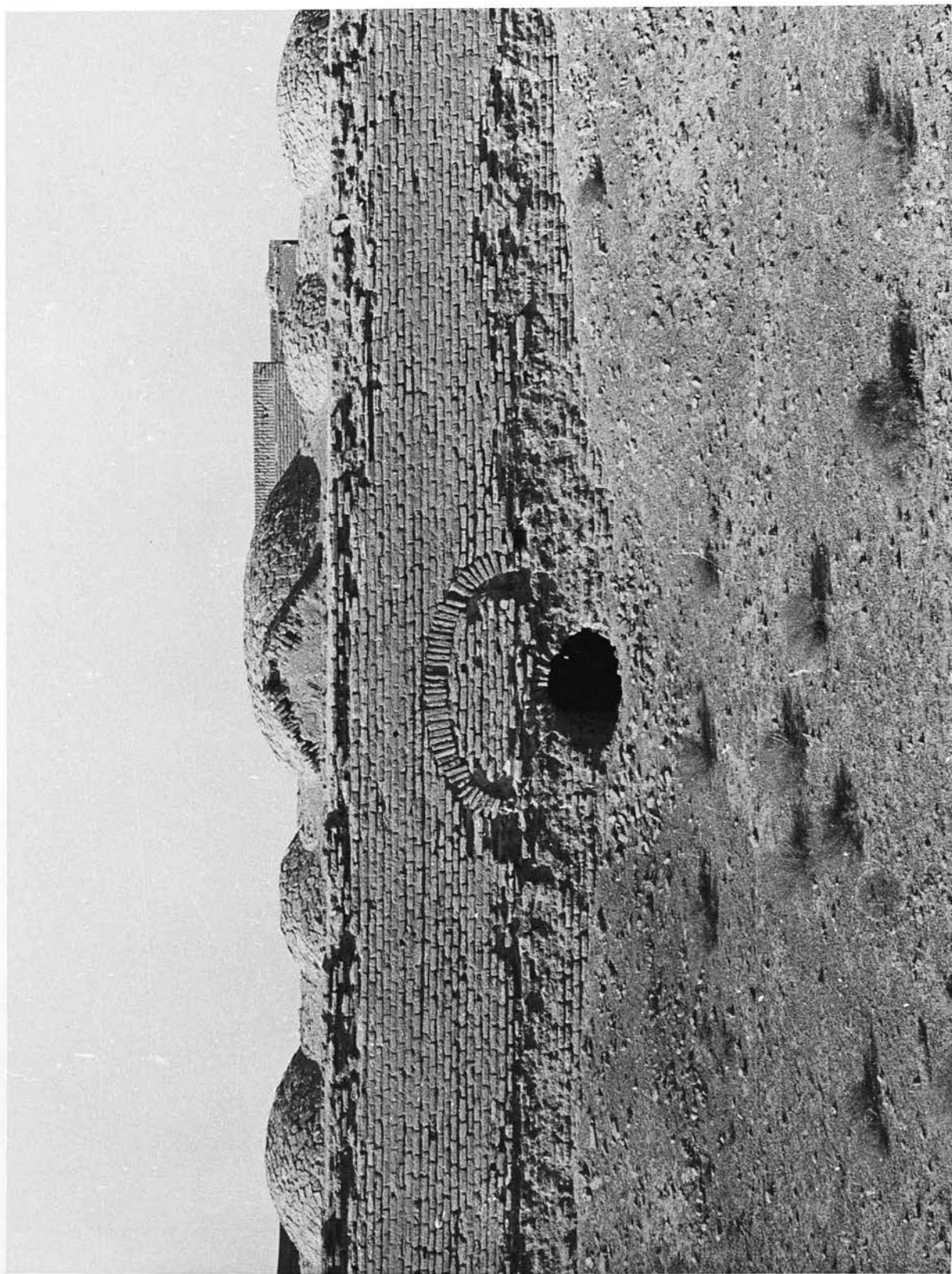
1- Dayr-e Gachin, Iran- General view .



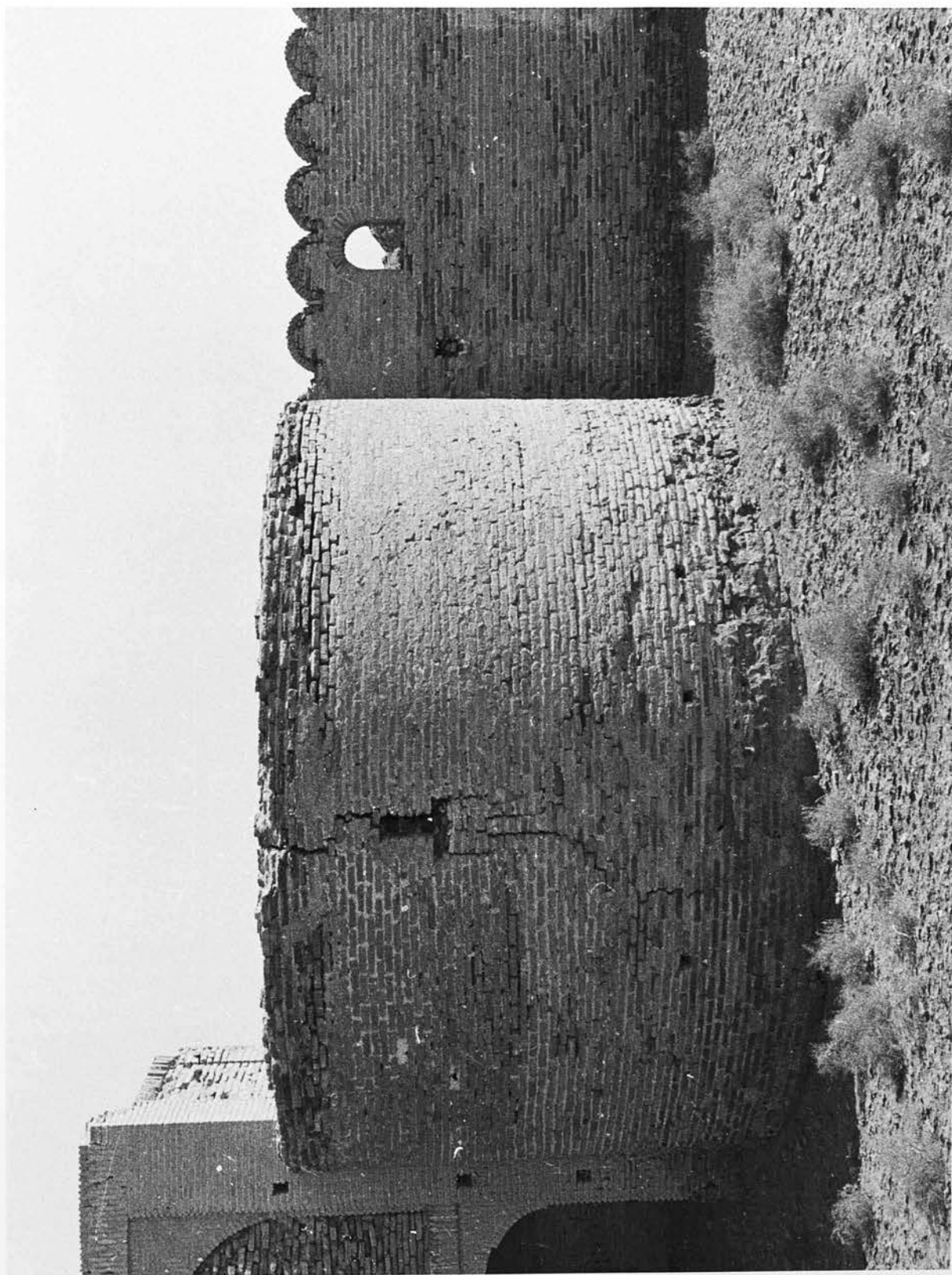
2- Deyr-e Gachin, Iran- Entrance gateway .



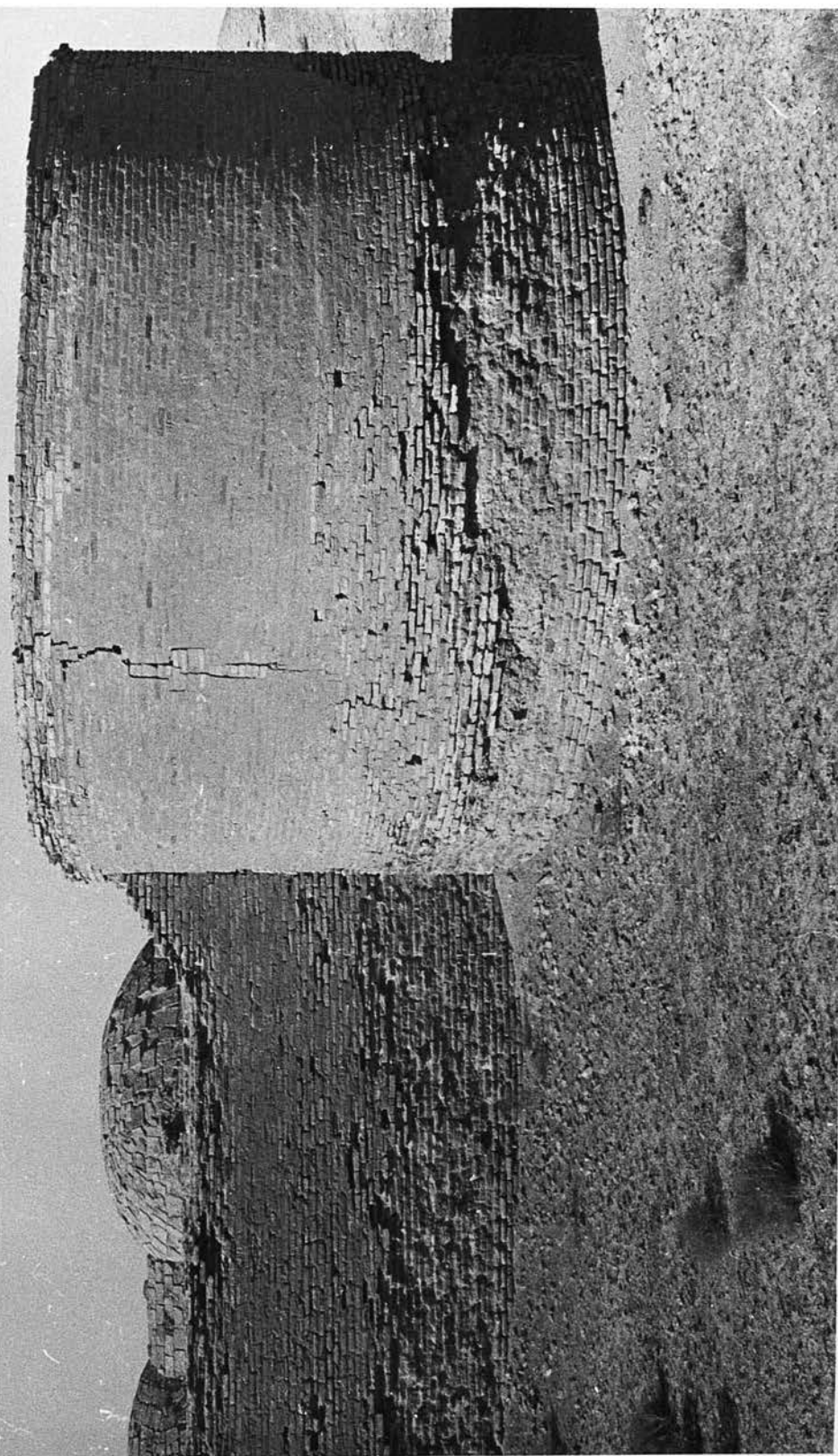
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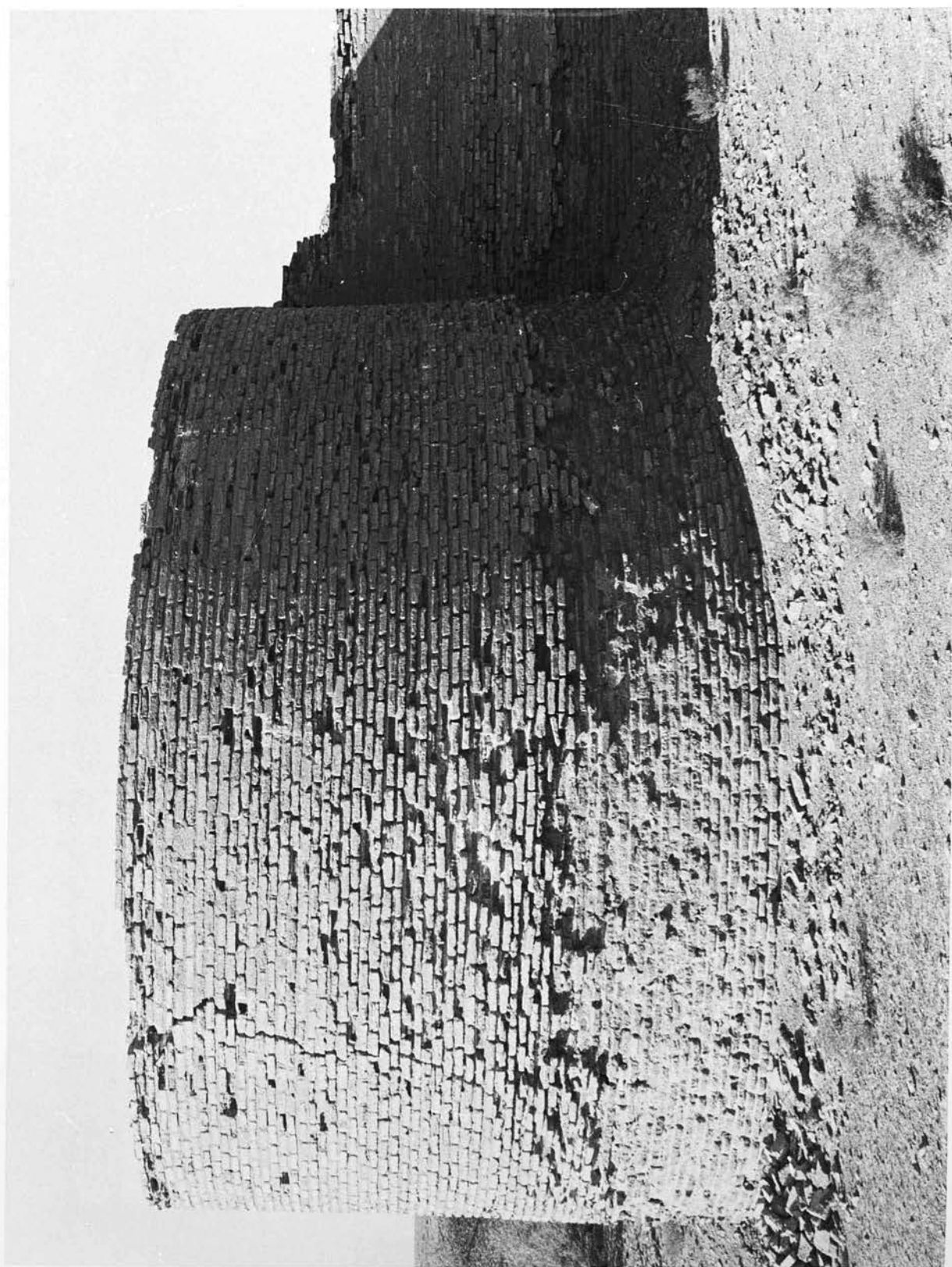
4- Deyr-e Gachin, Iran- Northern entrance .



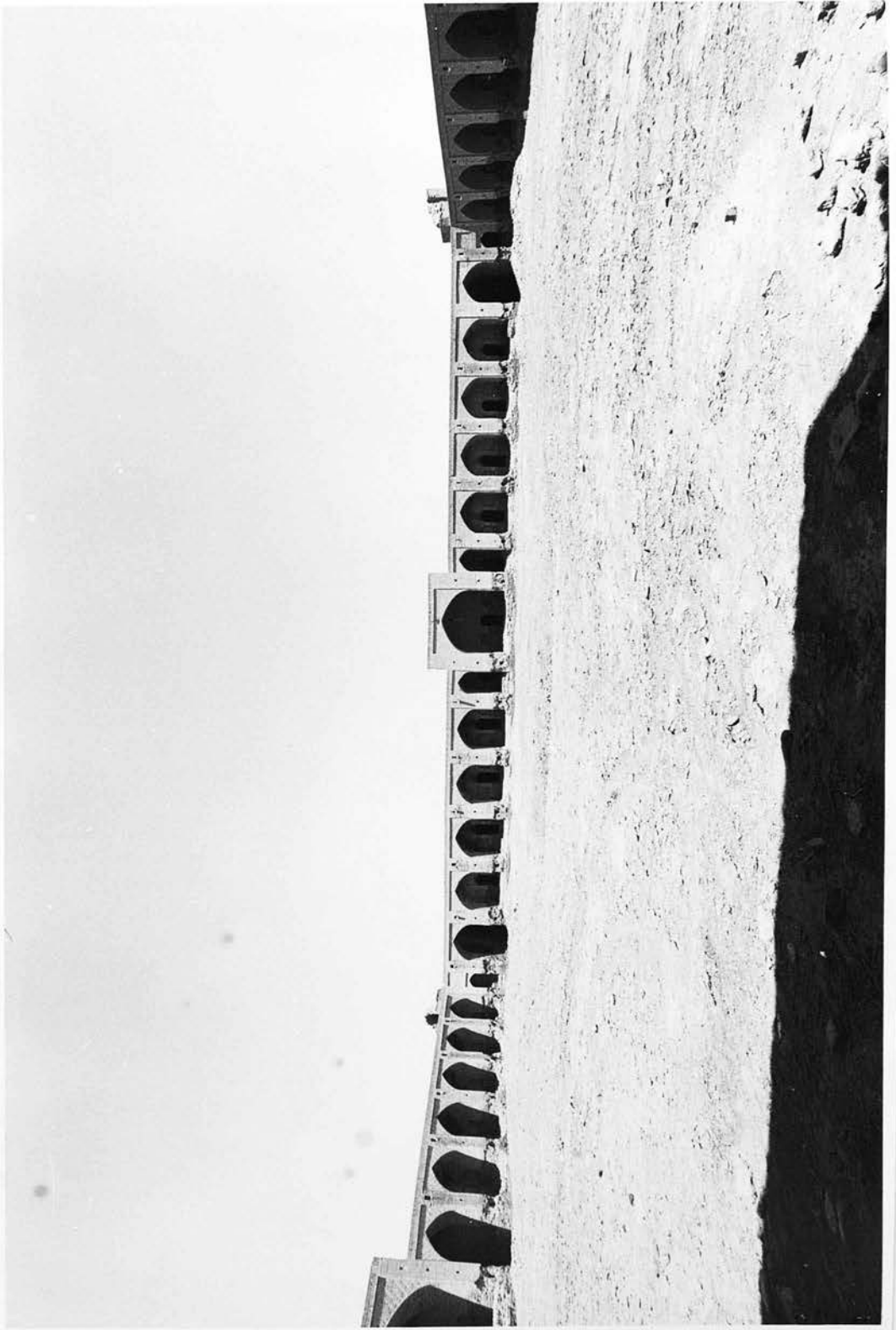
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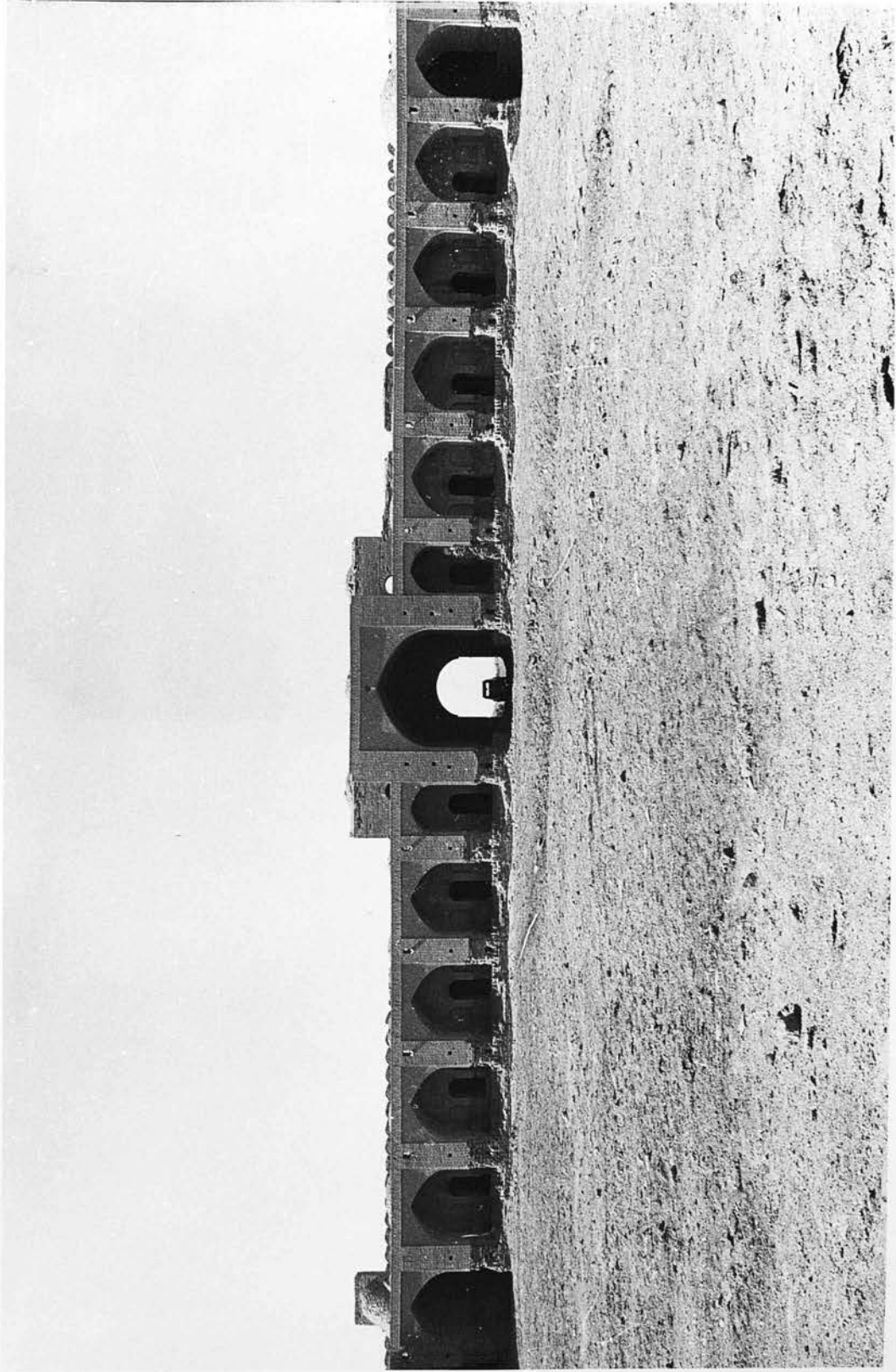
6- Deyr-e Gachin, Iran-Round tower of the north western corner .



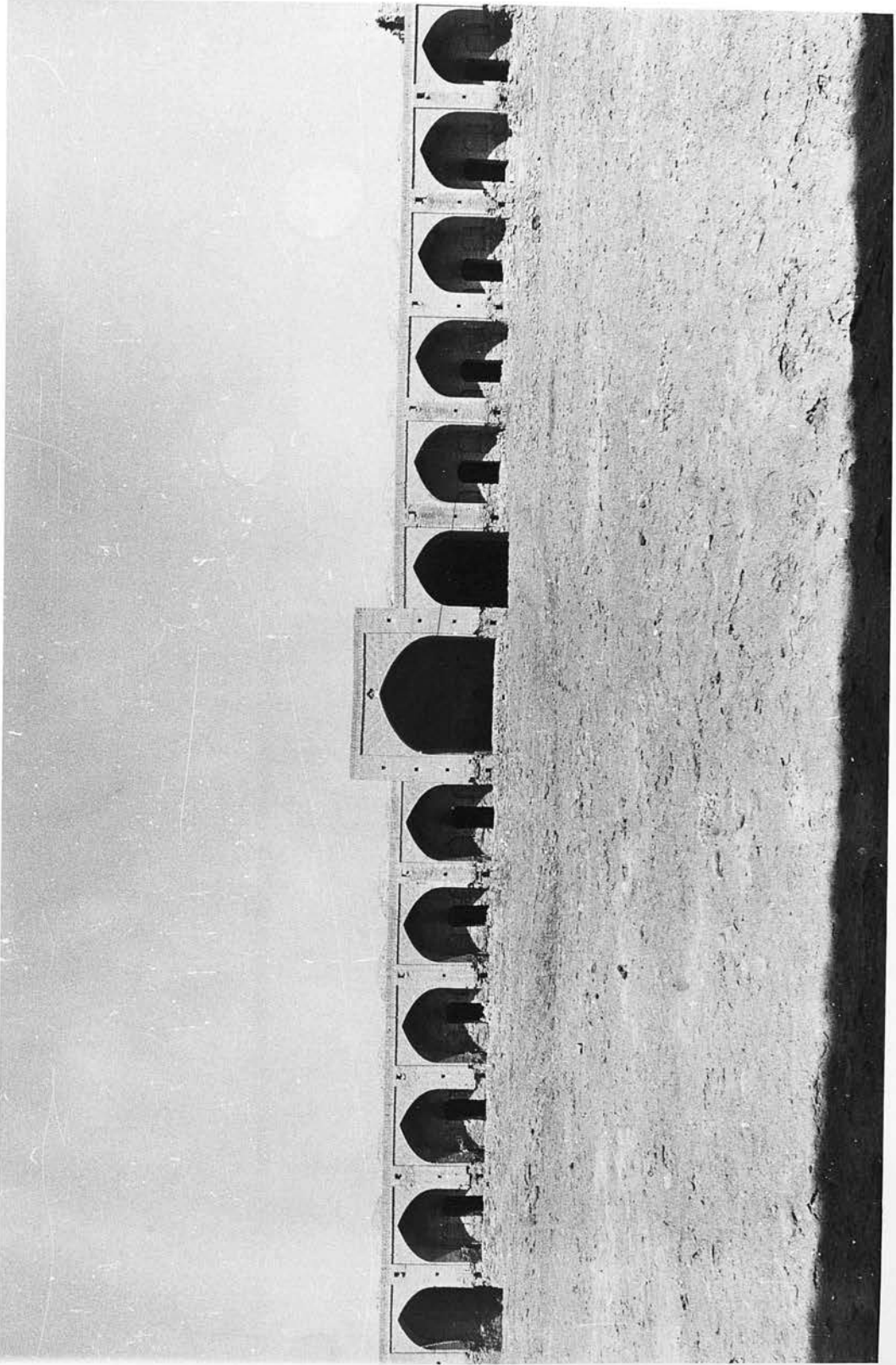
7- Deyr-e Gachin, Iran- Round tower of the north eastern corner .



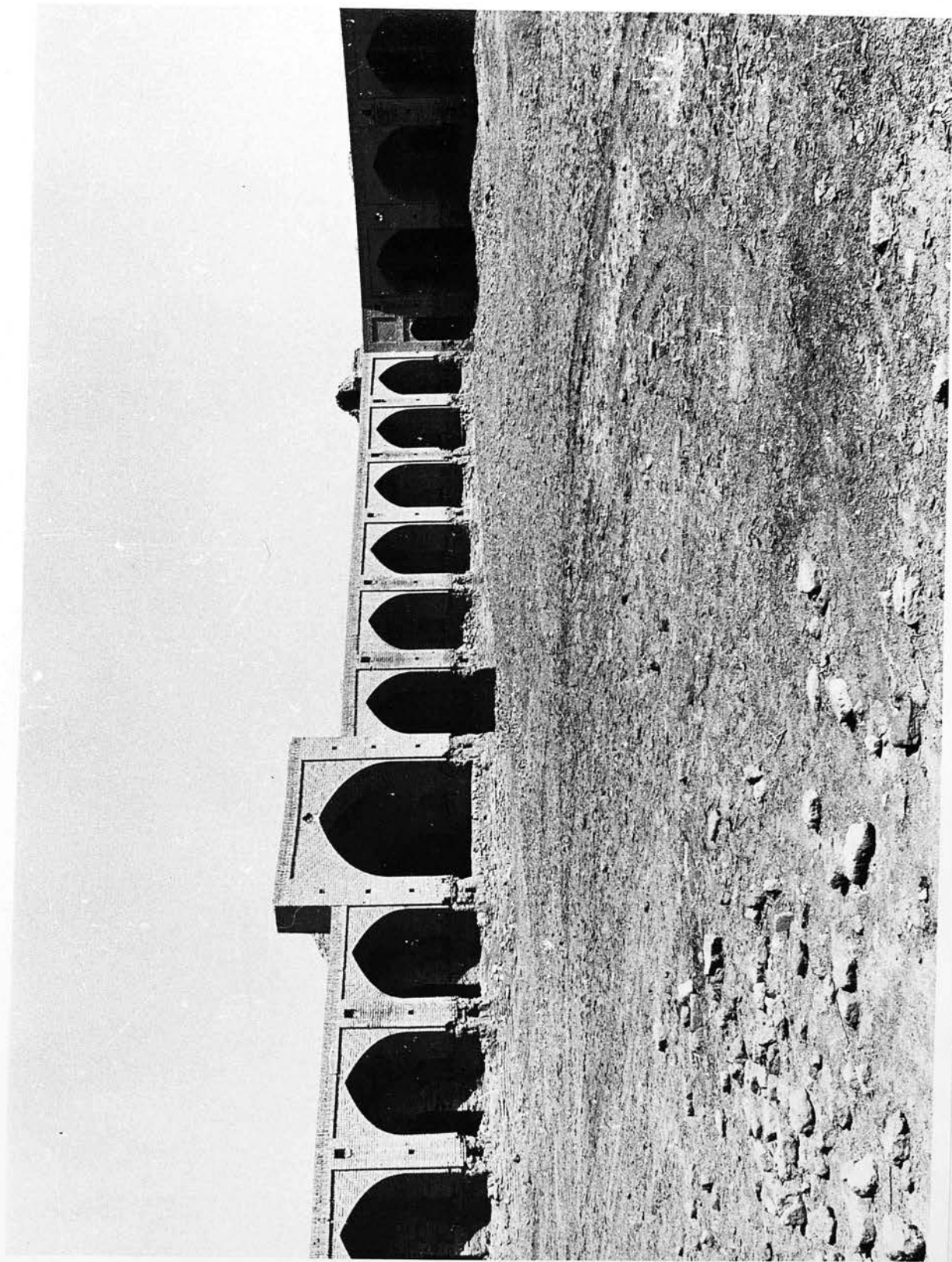
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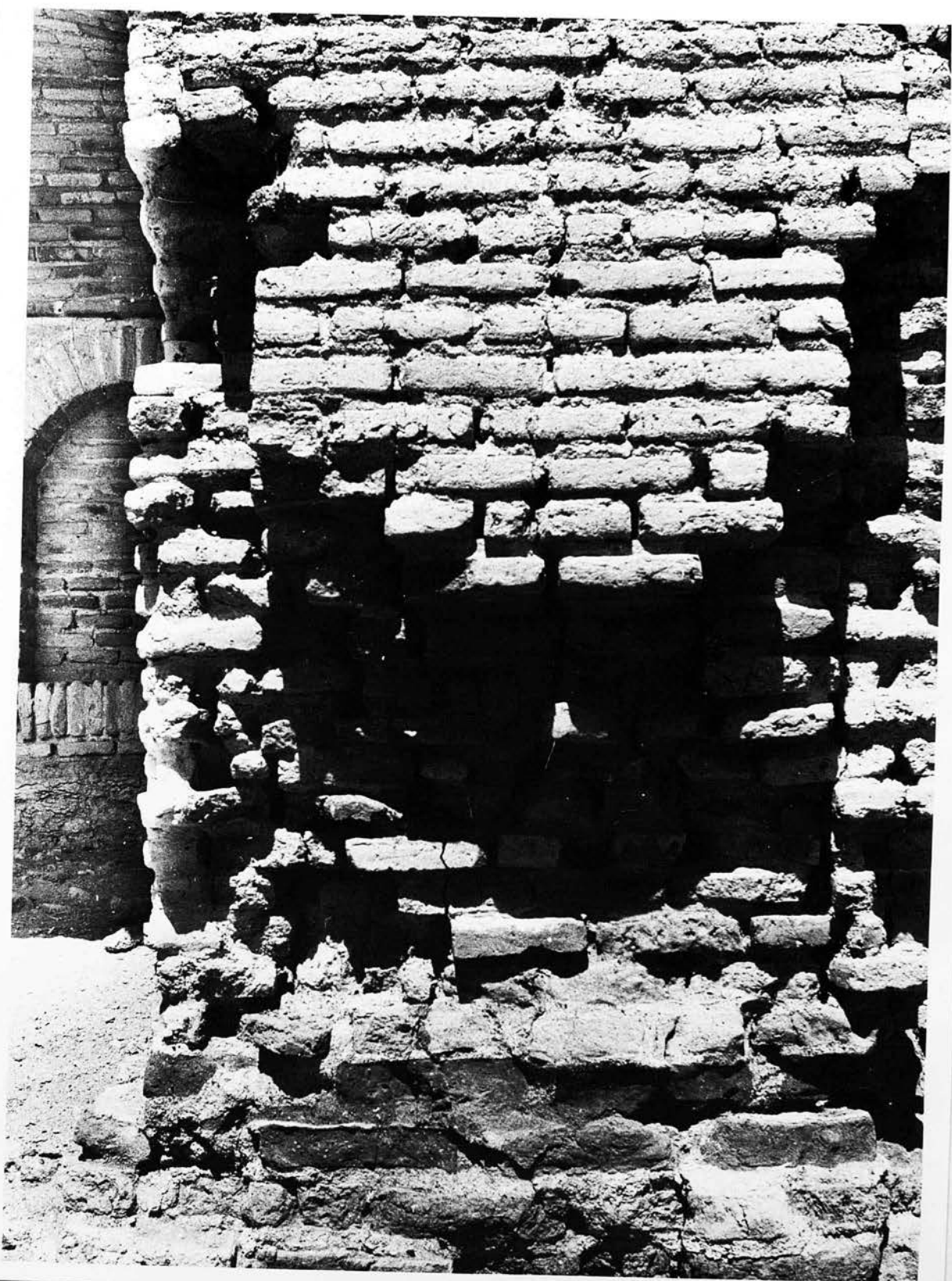
9- Deyr-e Gachin, Iran- Interior , southern section .



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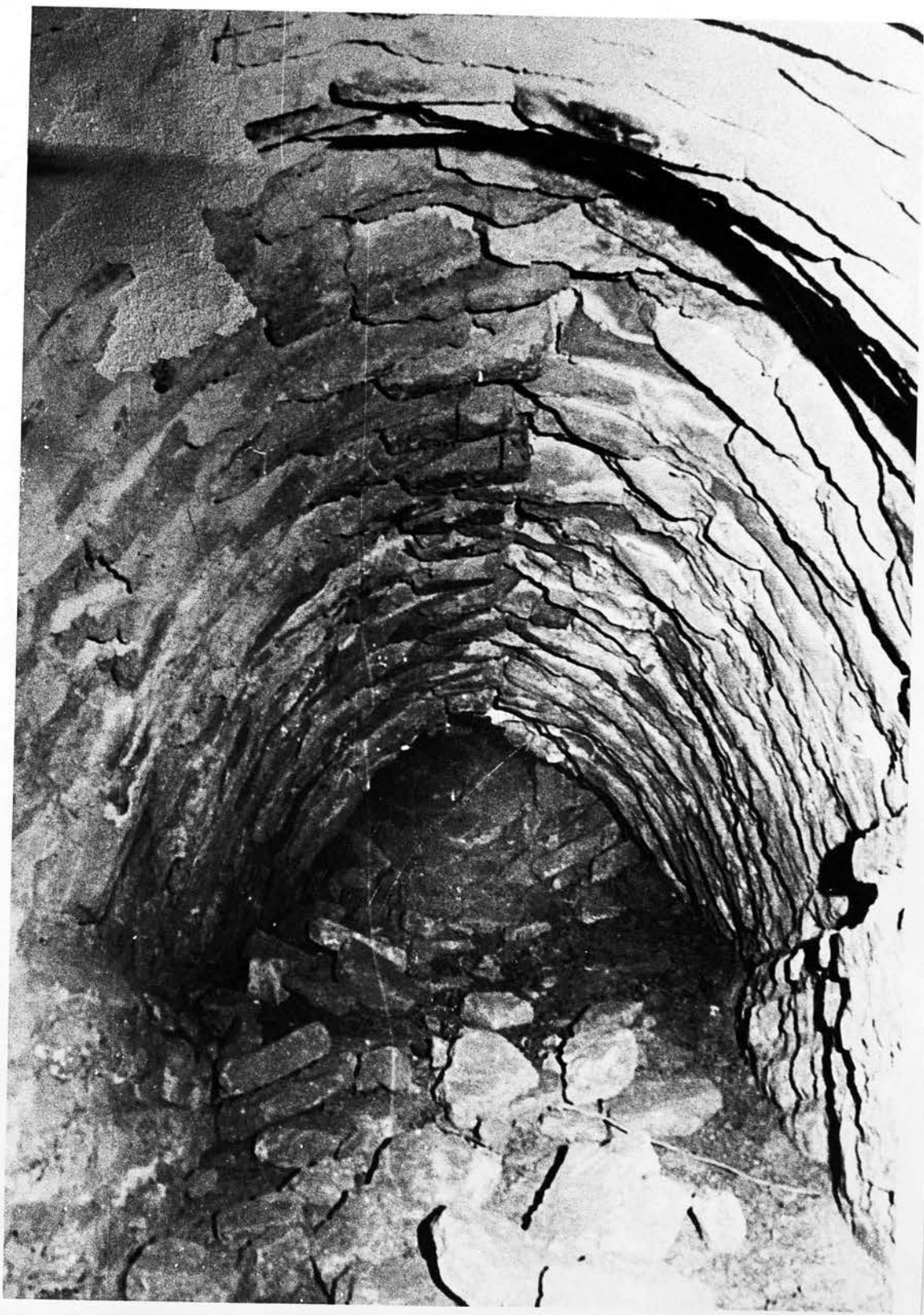
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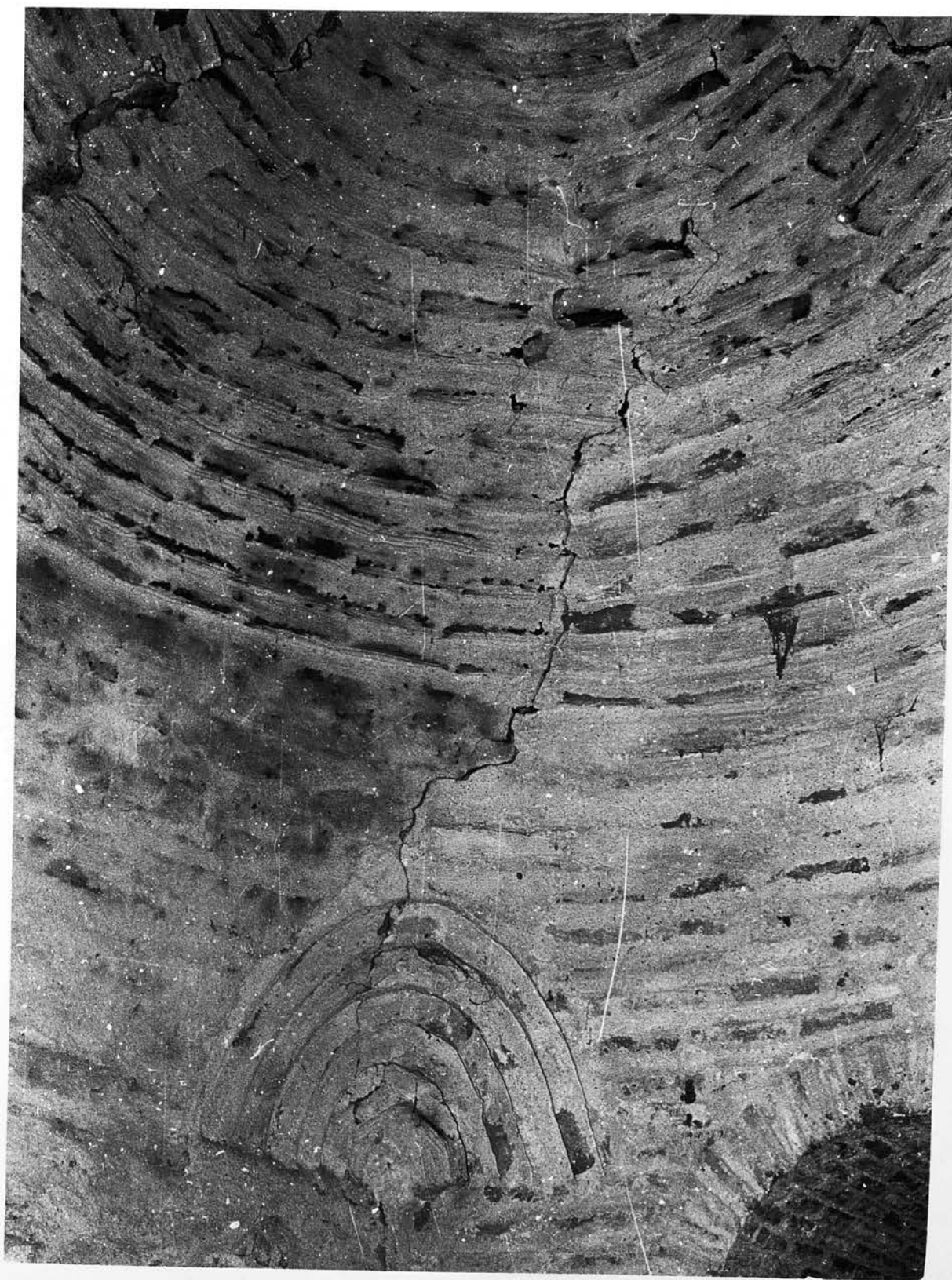
13- Deyr-e Gachin, Iran-Sasanian vault on the corridor leading to the north western tower .



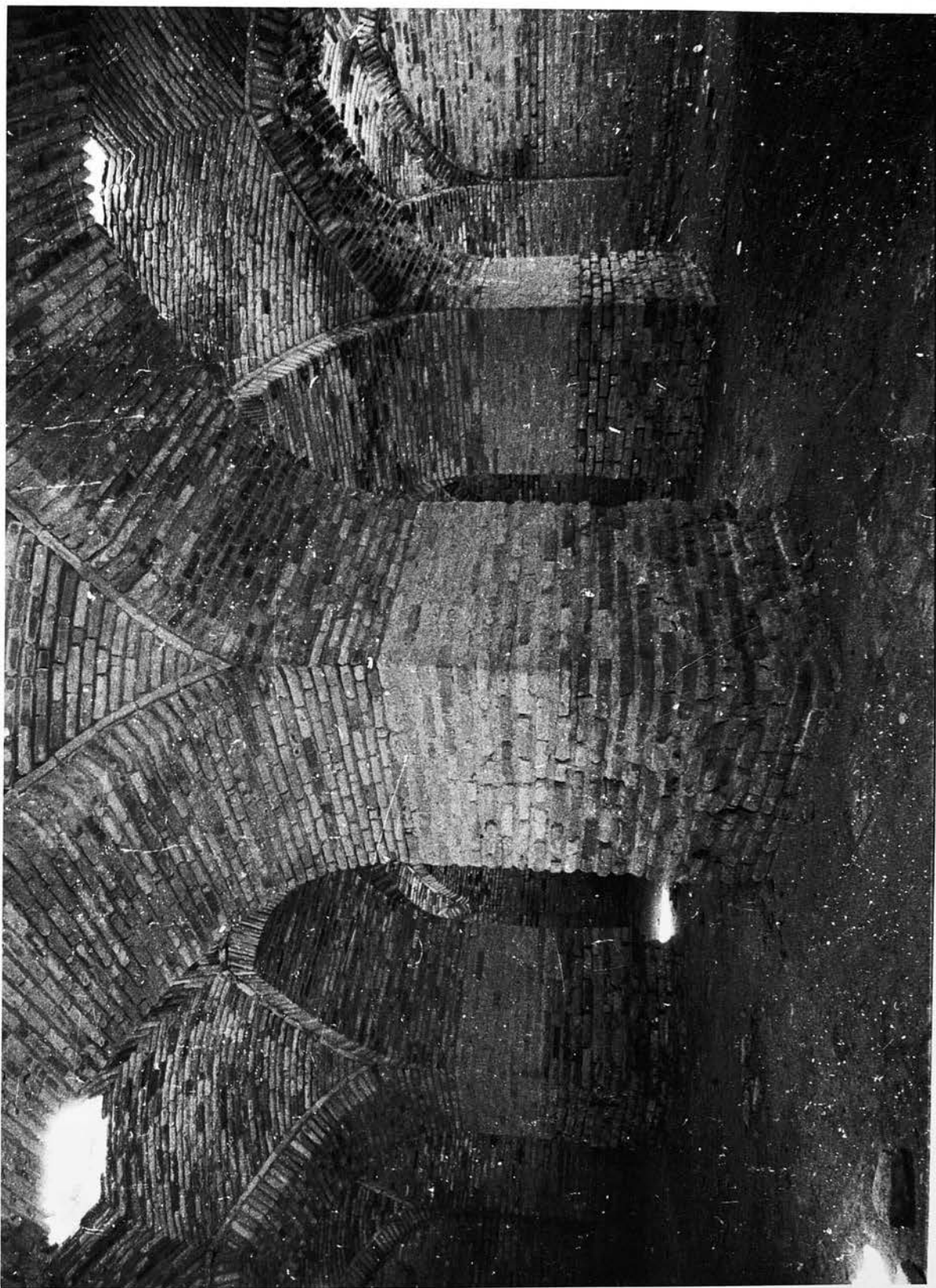
14- Deyr-e Gachin, Iran- Sasanian vault on the corridor leading to the north western tower .



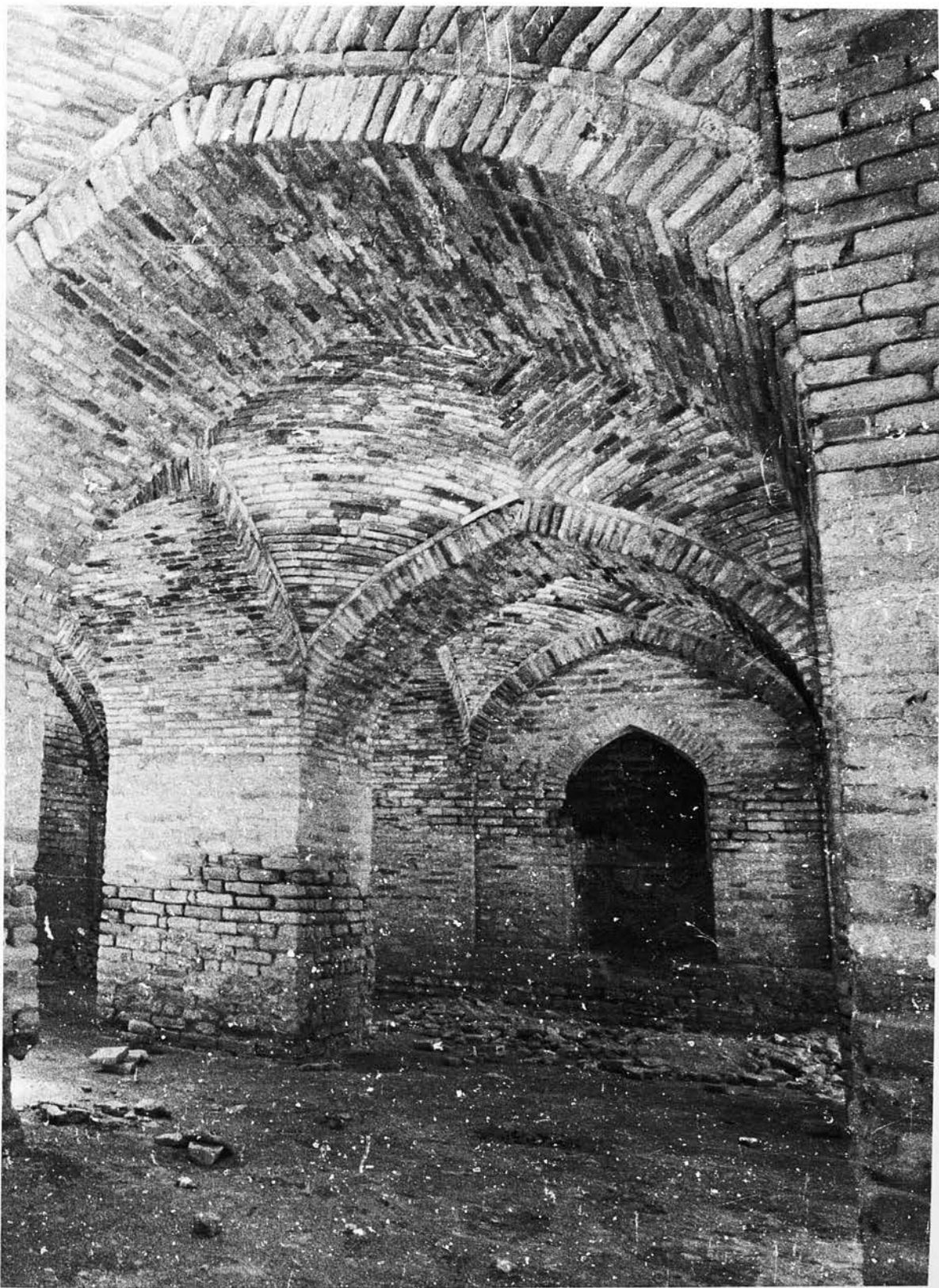
15- Deyr-e Gachin, Iran- Sasanian squinched dome in the chamber within the tower at the north side of the entrance .



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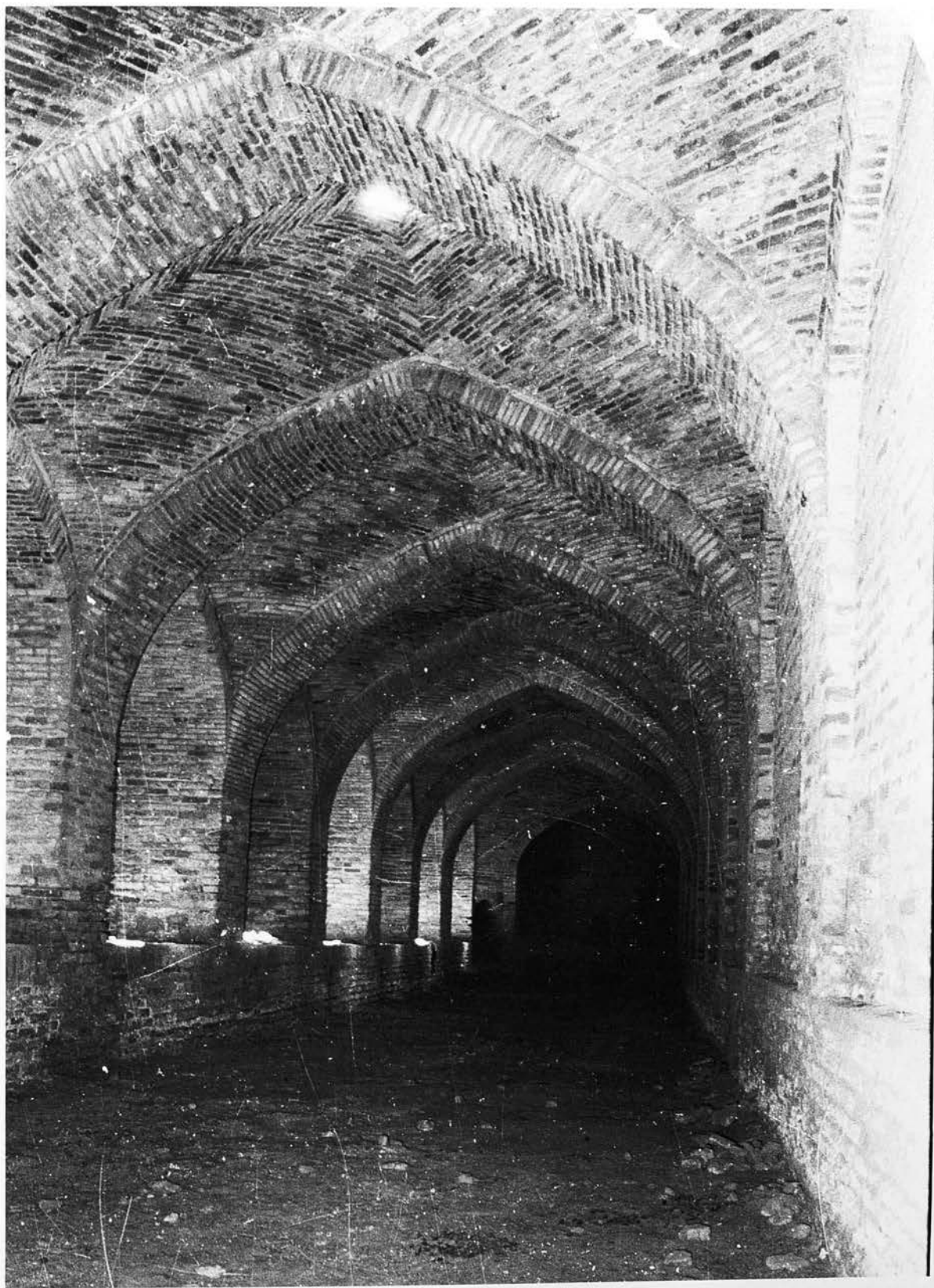
17- Deyr-e Gachin, Iran- The mosque: three phases of constructions are visible in the piers .



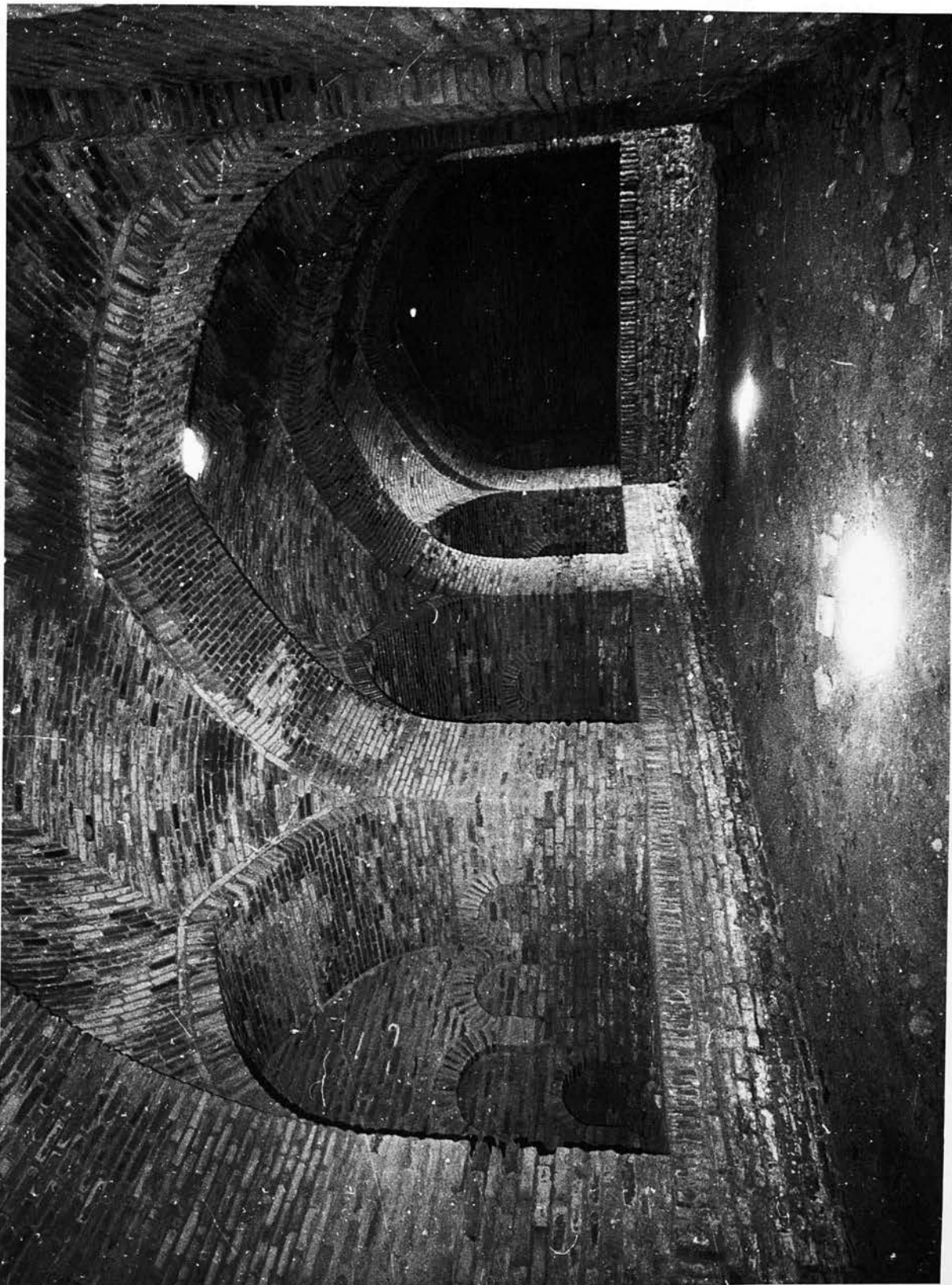
18- Deyr-e Gachin, Iran- The mosque; mihrab at the southern wall.



19- Deyr-e Gachin, Iran- Stable and niches at the northern gallery.



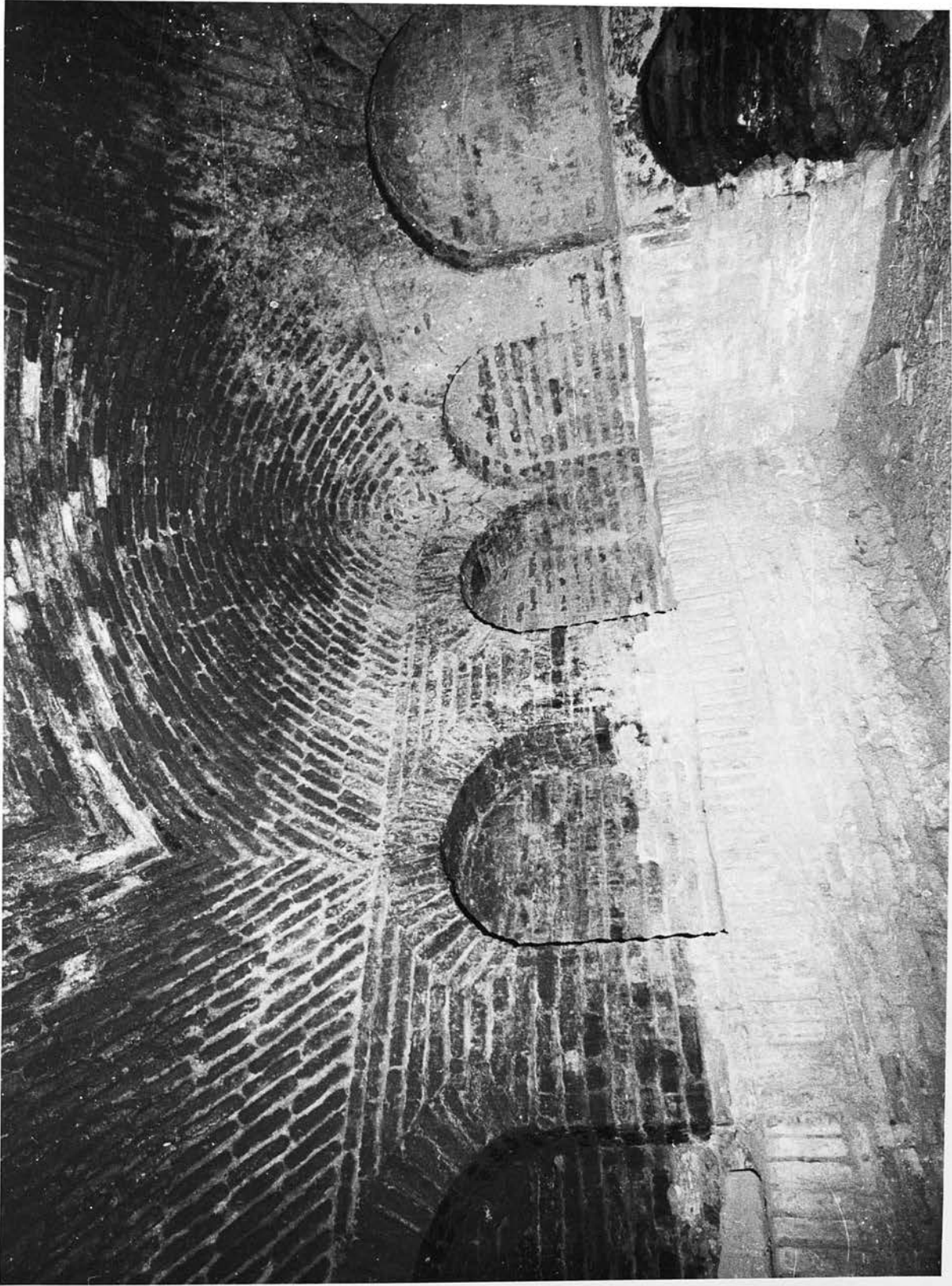
20- Deyr-e Gachin, Iran- Western stable looking to the north
(the mill) .



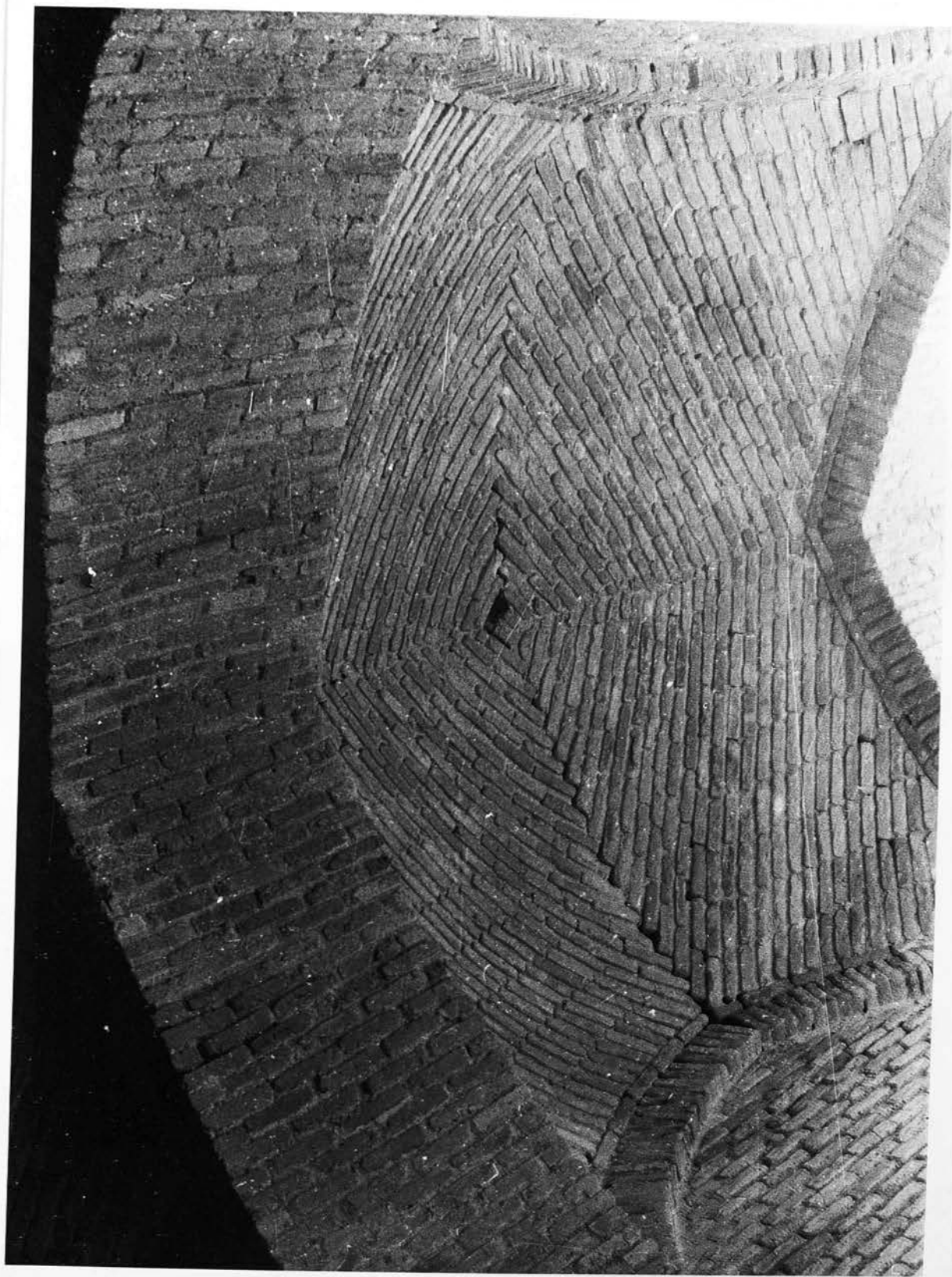
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22- Deyr-e Gachin, Iran- Northern gallery; the chaber complex next to the western entrance of the stable .



23- Deyr-e Gachin, Iran- Interior of the main rooms with the squinch-vault .



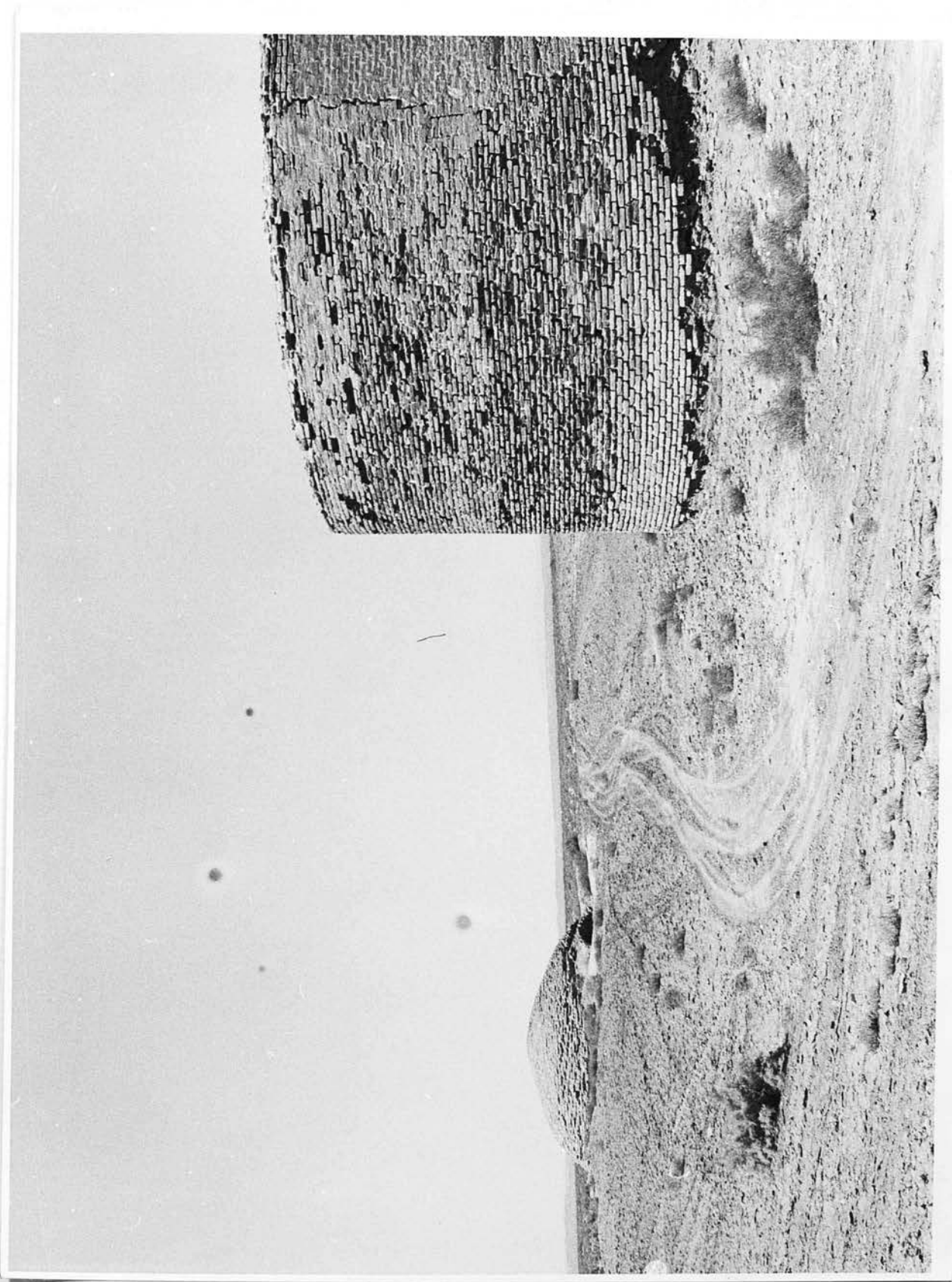
24- Deyr-e Gachin, Iran- Cross vault above the galleries .



25- Deyr-e Gachin, Iran- Frigidarium of the bath at the south west section .



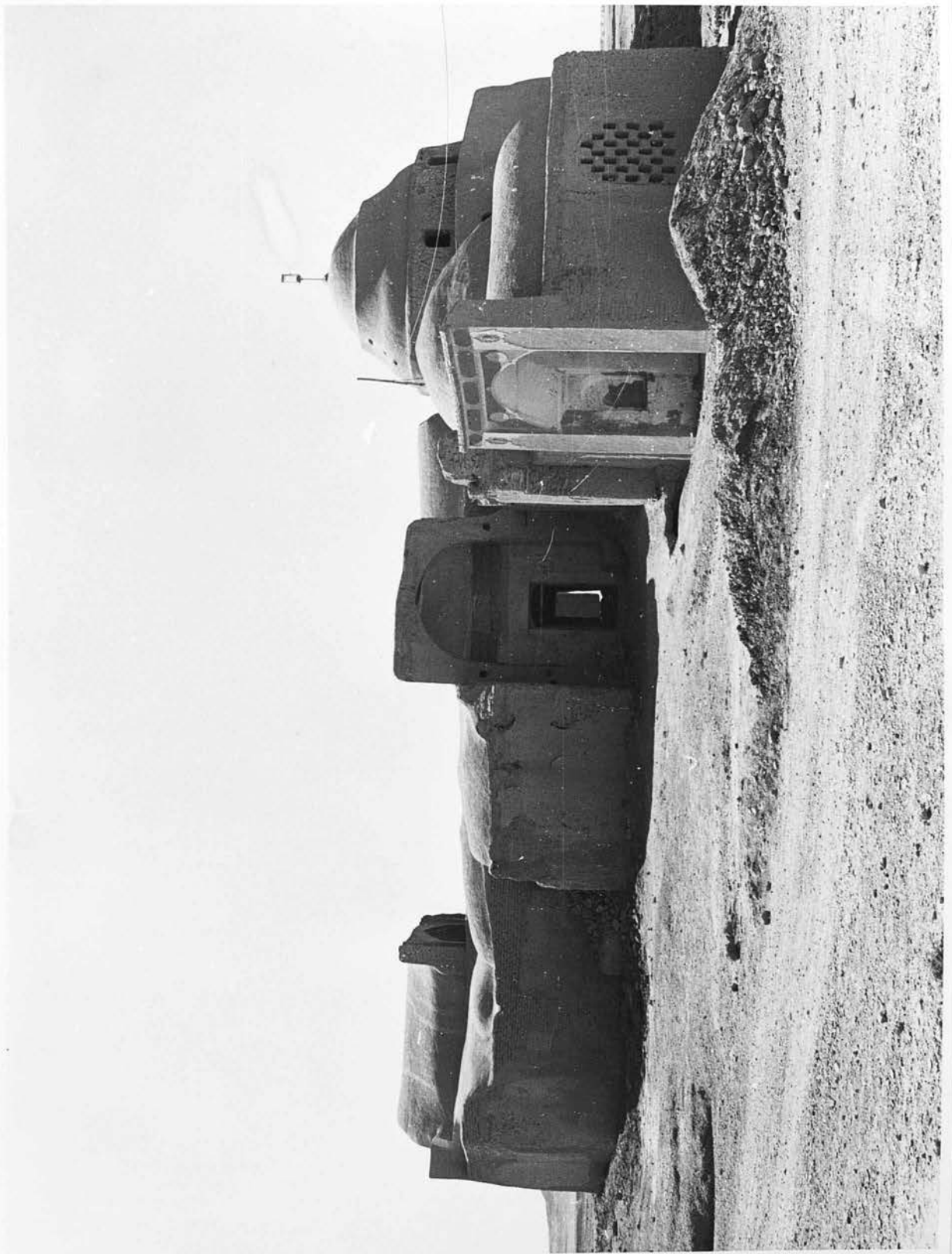
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27- Deyr-e Gachin, Iran- South western tower and the reservior .



28- Deyr-e Gachin, Iran- Ruins of another reservoir to the west side of the enclosure .



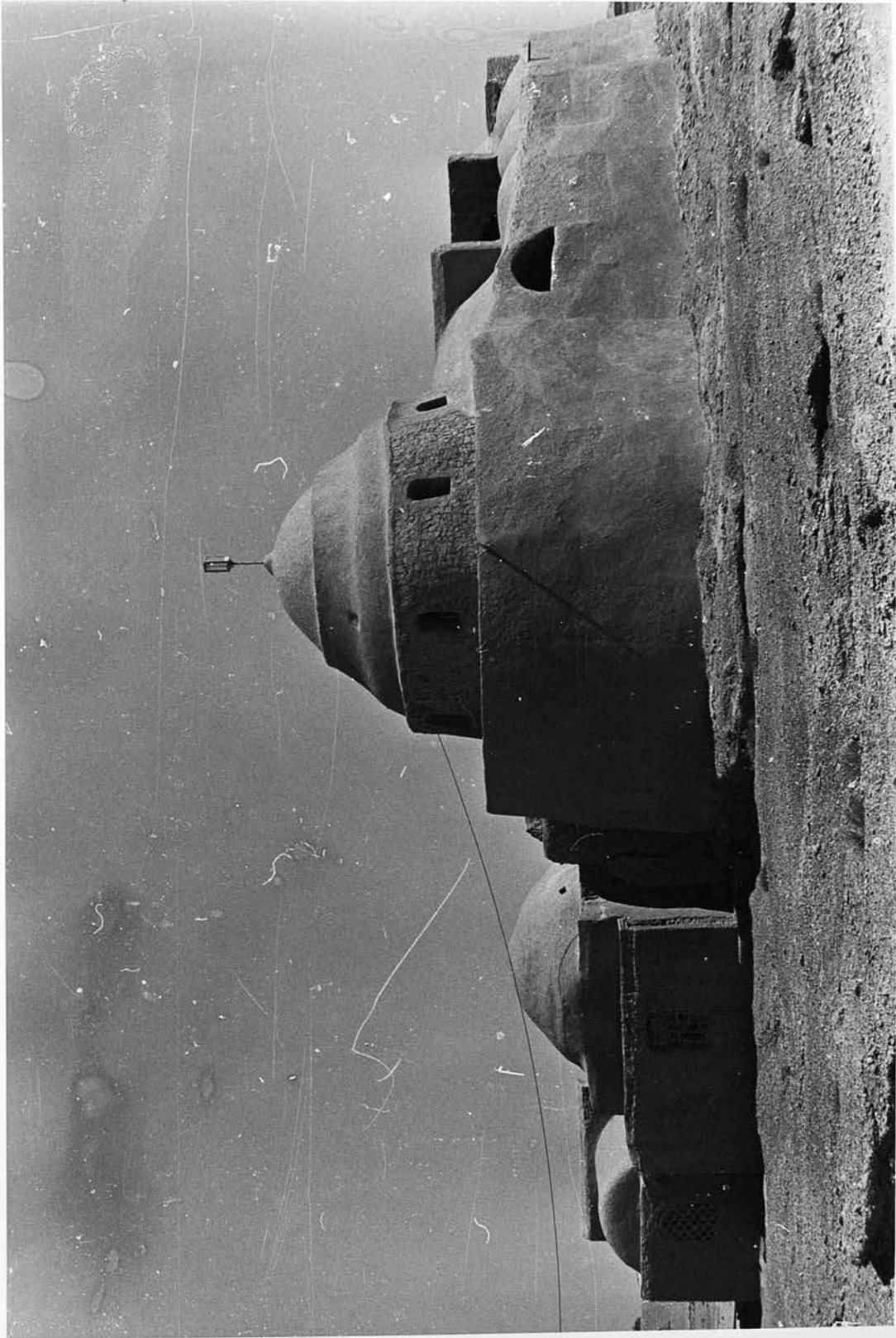
29-Abarquh, Iran; Masjed-e Birun- General view of the northern facade .



30- Abarquh, Iran- Entrance of Masjed-e Birun .



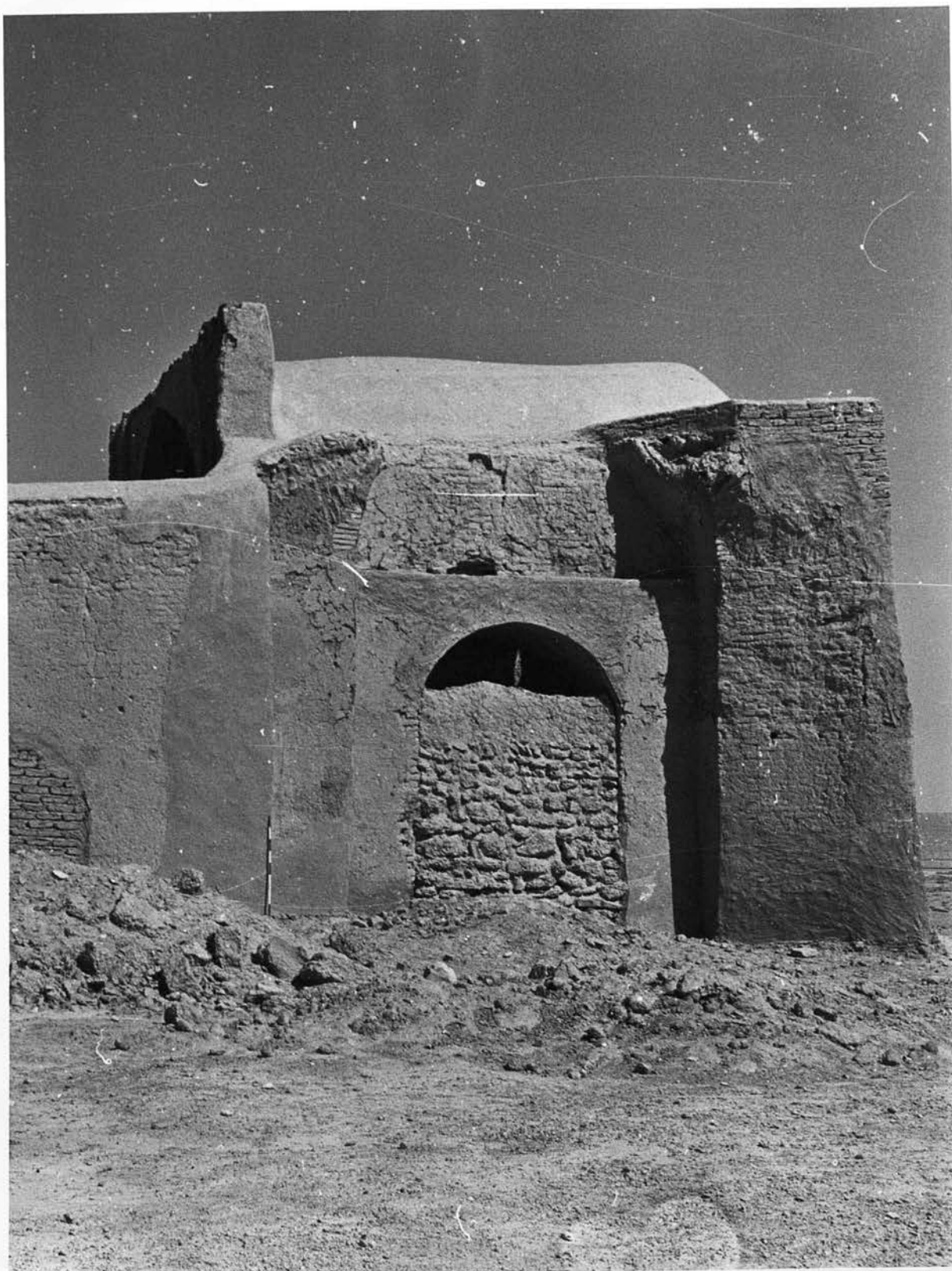
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32-Abarquh, Iran; Masjed-e Birun-General view of the western facade .



33- Abarquh, Iran- Exterior view of the sanqtuary of Masjed-e Birun.



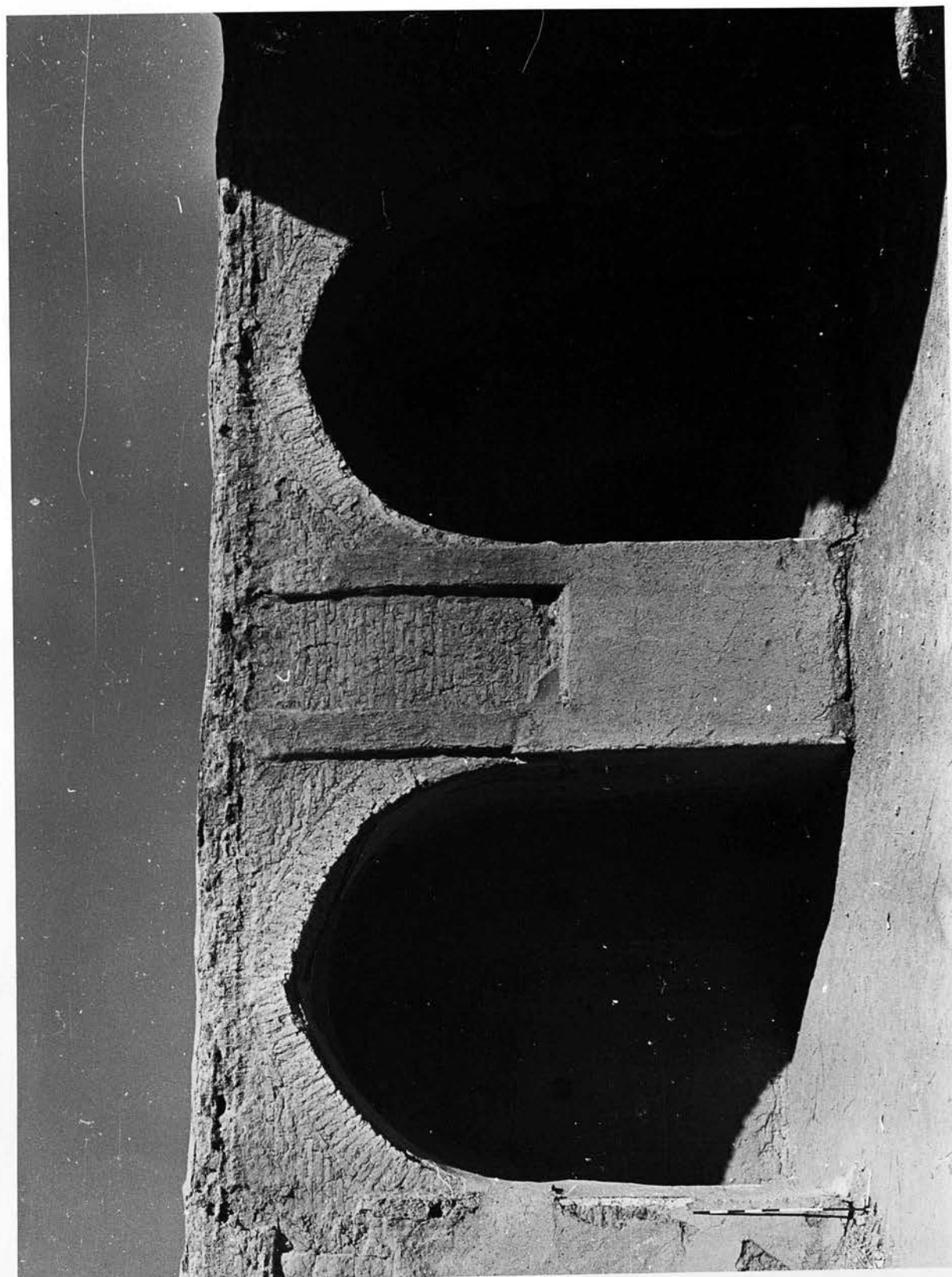
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36-Abarquh, Iran; Masjed-e Birun-Eastern ivan and part of the northern arcade .



37-Abarquh, Iran- Northern arcade of Masjed-e Birun.



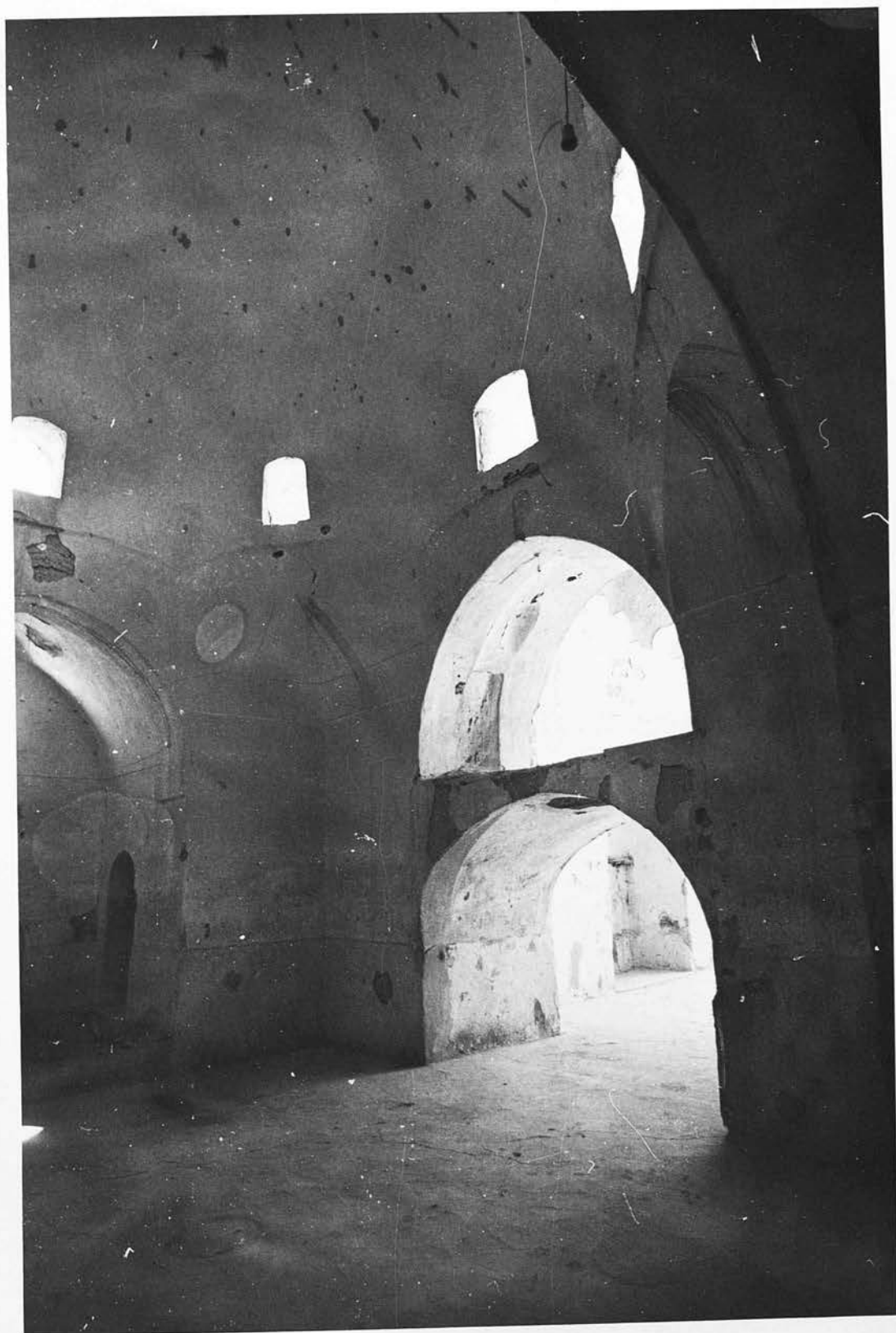
38-Abarquh, Iran; Masjed-e Birun-Southern arcade; the south eastern niche is reconstructed .



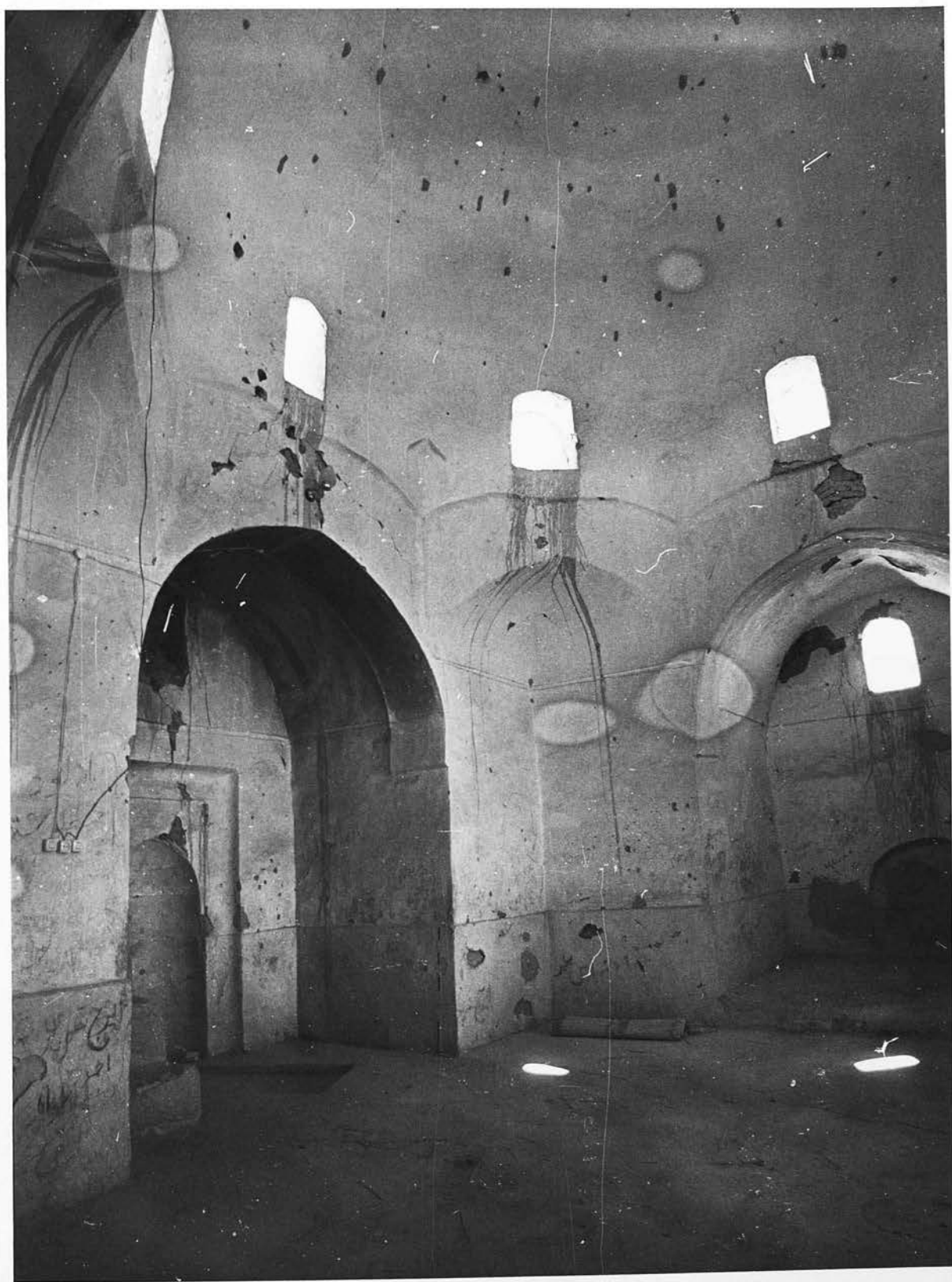
39- Abarquh, Iran- Western ivan of Masjed-e Birun.



40-Abarquh-Iran; Masjed-e Birun- Northern side of the west ivan.



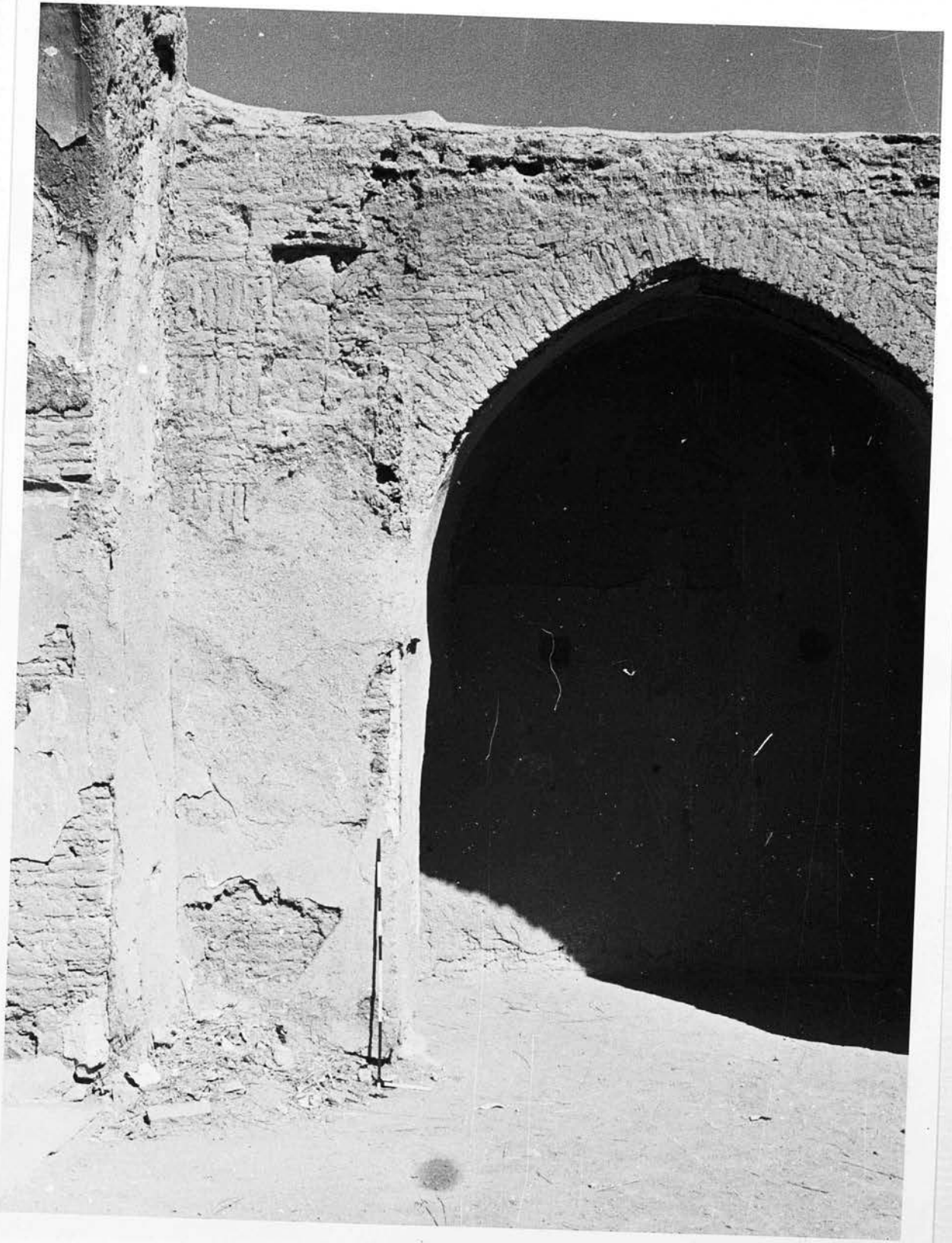
41-Abarquh, Iran; Masjed-e Birun - North-east view of the sanctuary.



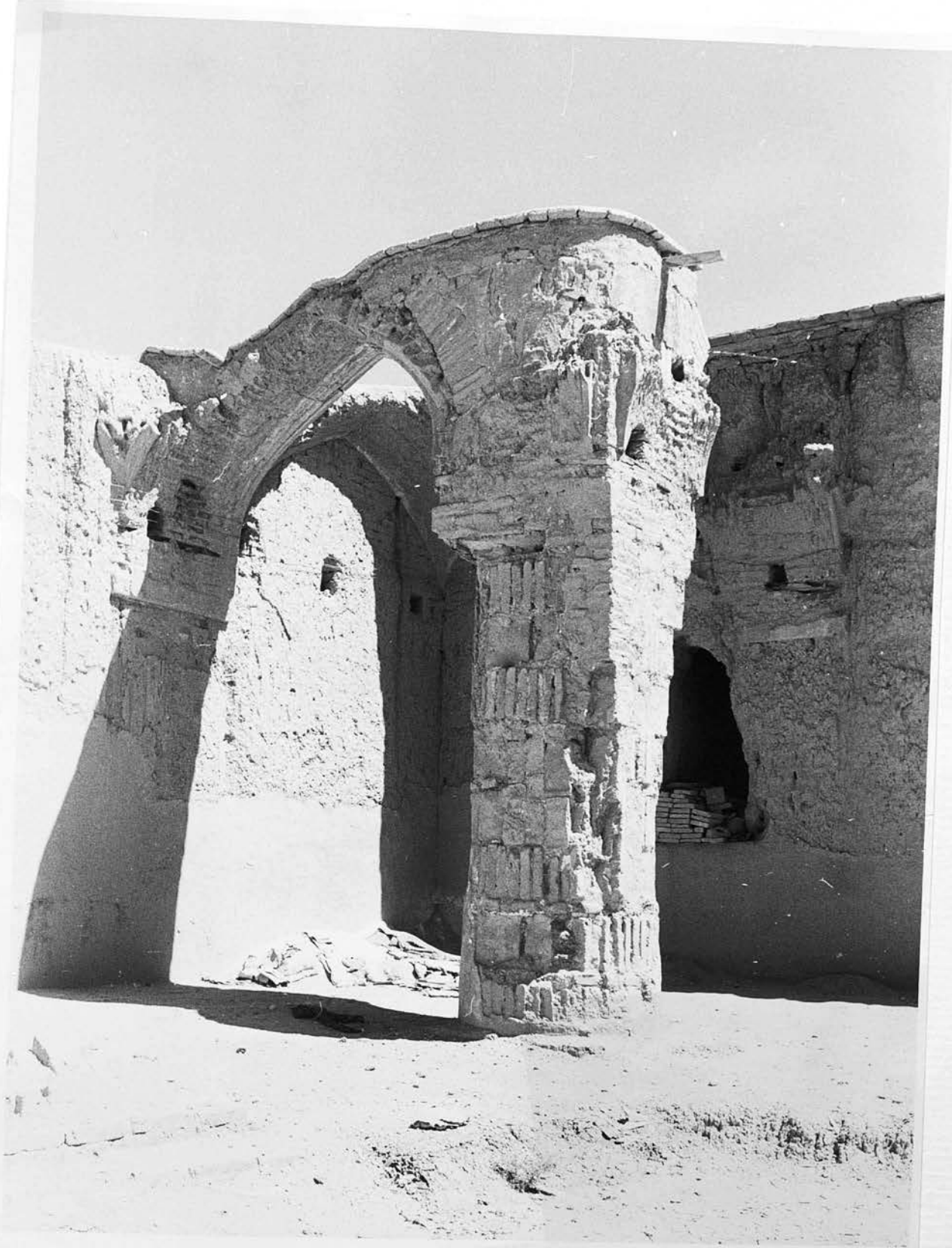
42-Abarquh, Iran; Masjed-e Birun- North western view of the sanctuary showing the mihrab .



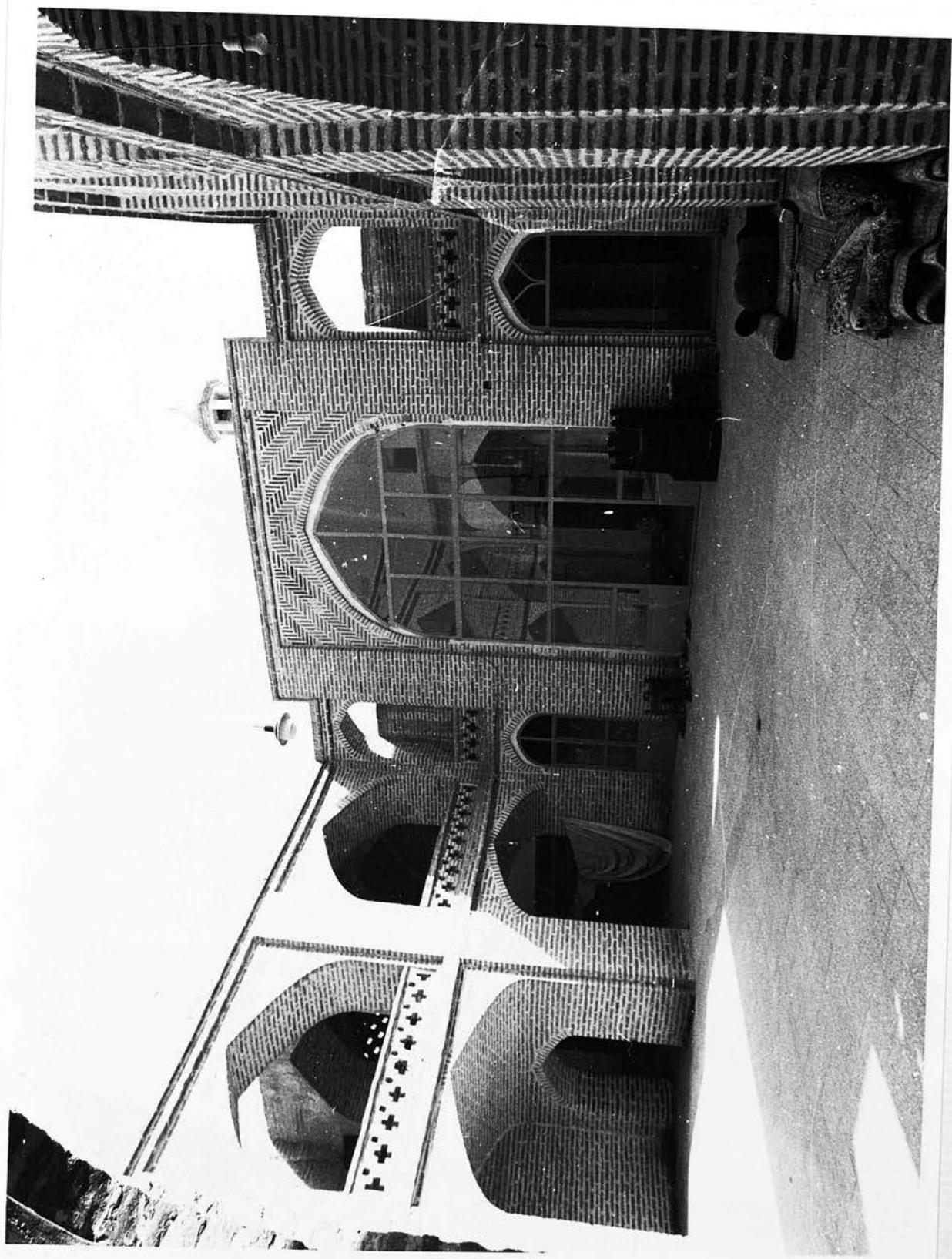
43-Abarquh, Iran; Masjed-e Birun - Remains of the minaret.



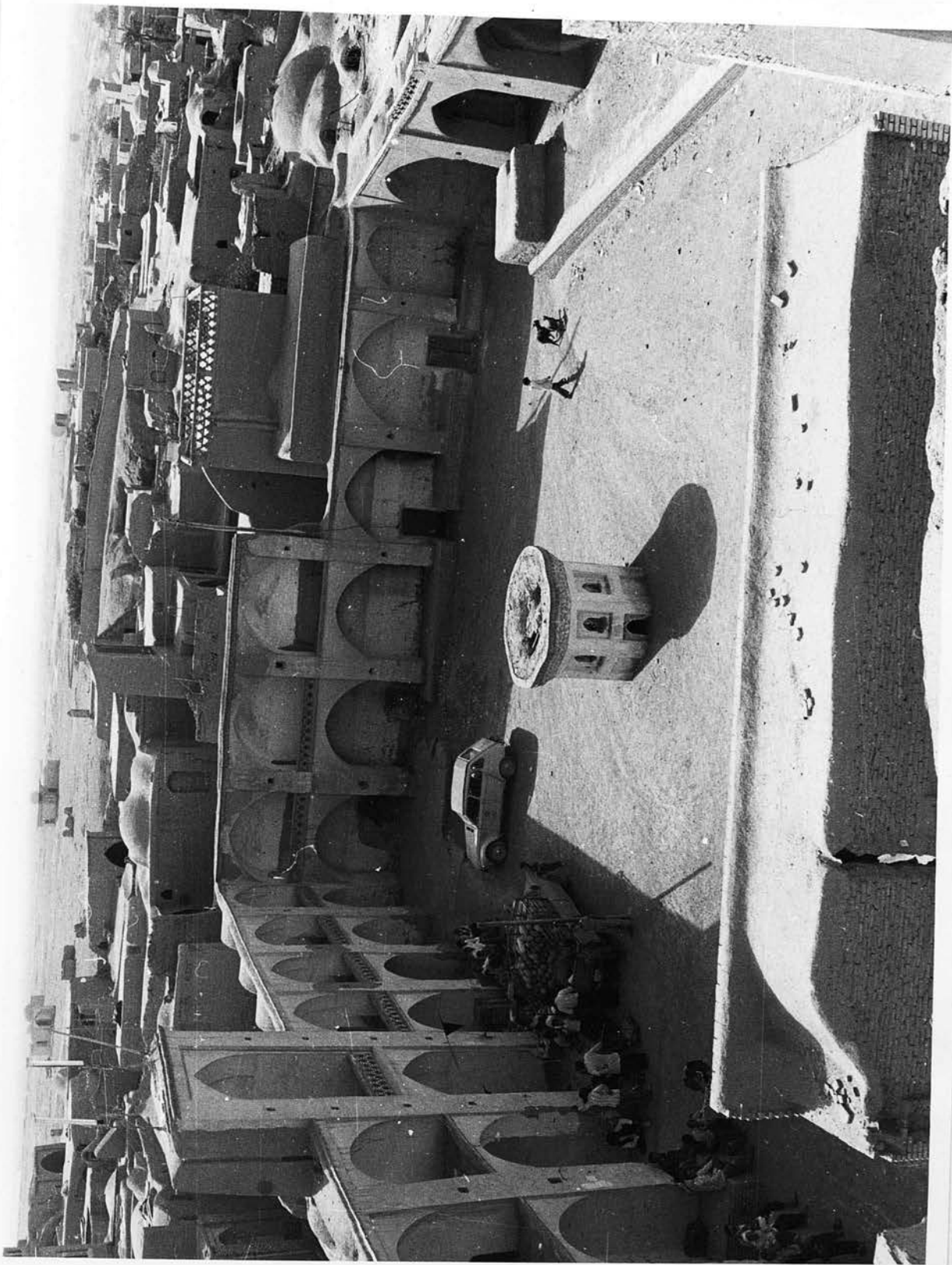
44-Abarquh, Iran; Masjed-e Birun - Brick works of the pier at the north-west corner of the court-yard.



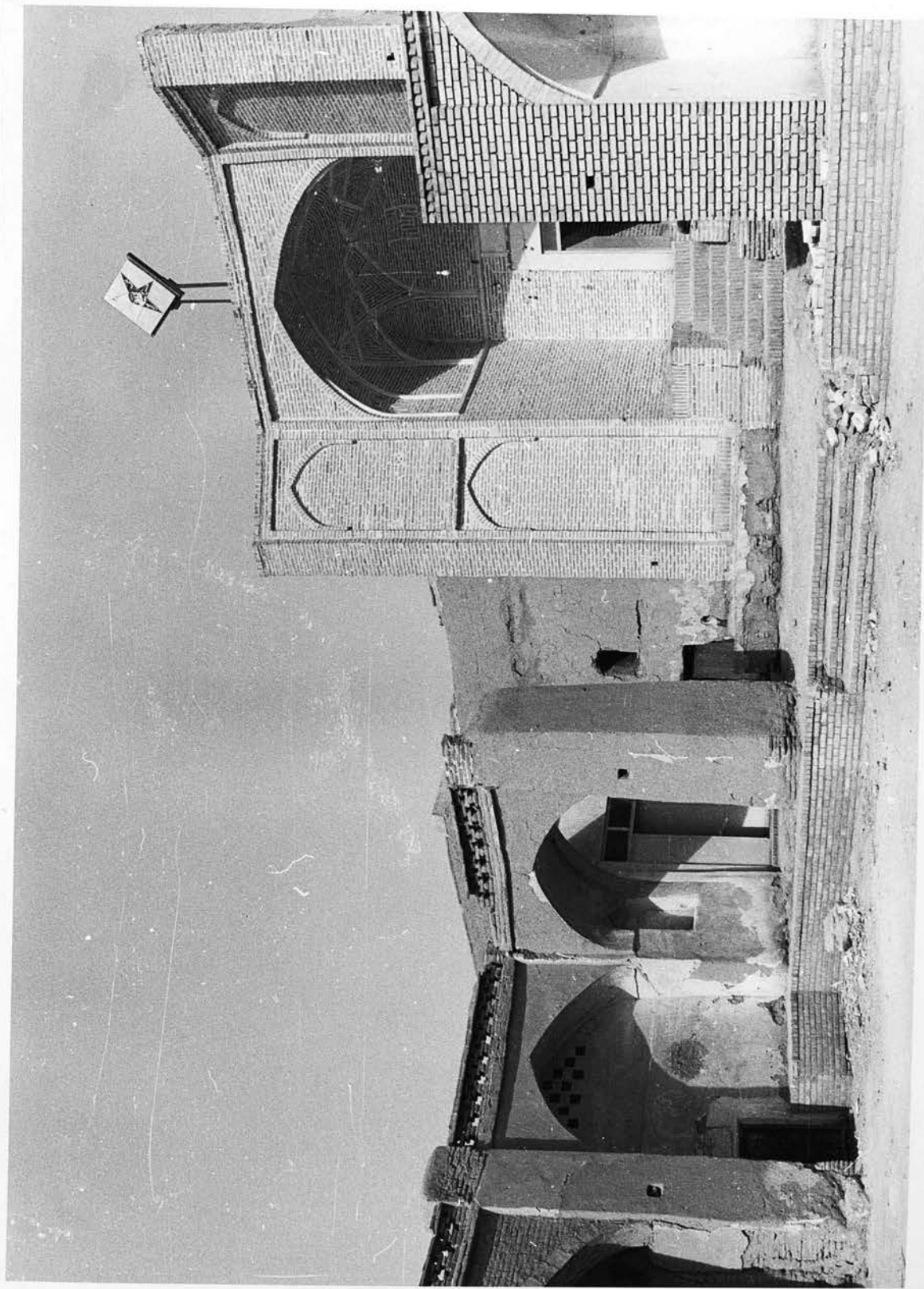
45-Damghan, Iran; Tarikhane - Brick works of the columns.



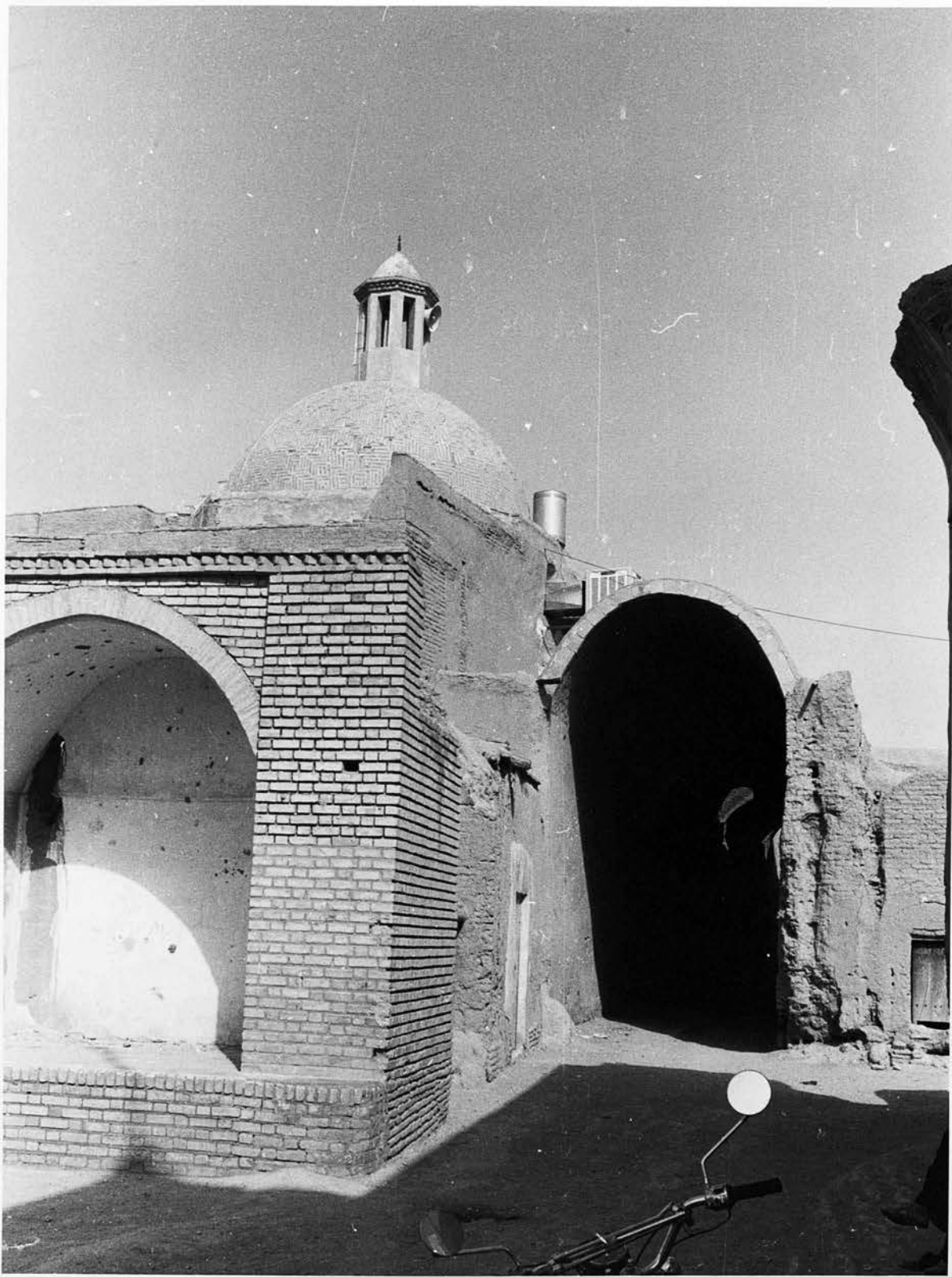
46- 'Aqdā, Iran; the jāme' mosque - General view of the court-yard.



47- 'Aqdā, Iran; the Hosayniye and general view of the town.



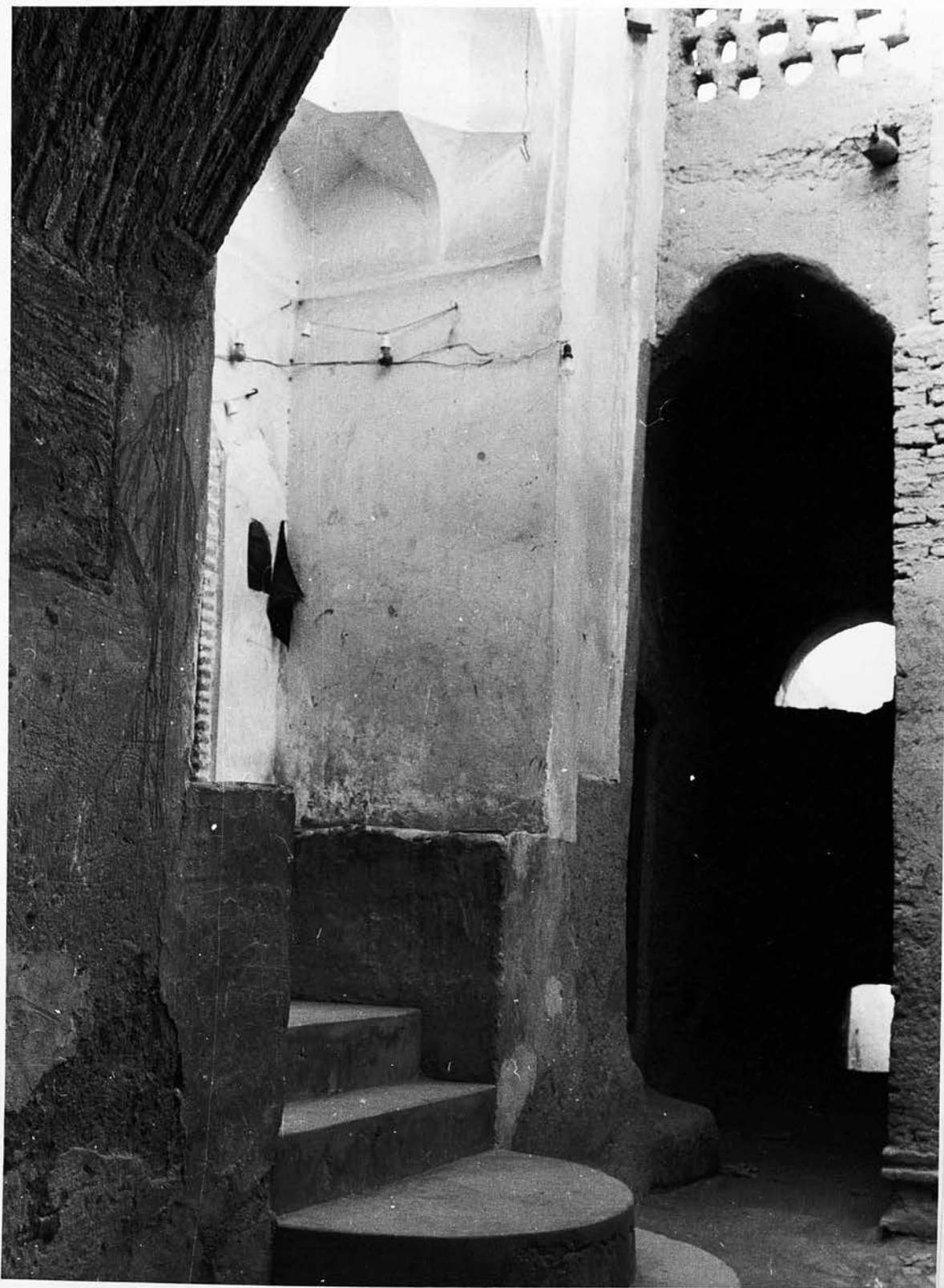
48- 'Aqdā, Iran; eastern arcade of the Hoseyniye and the western entrance of the jāmé mosque.



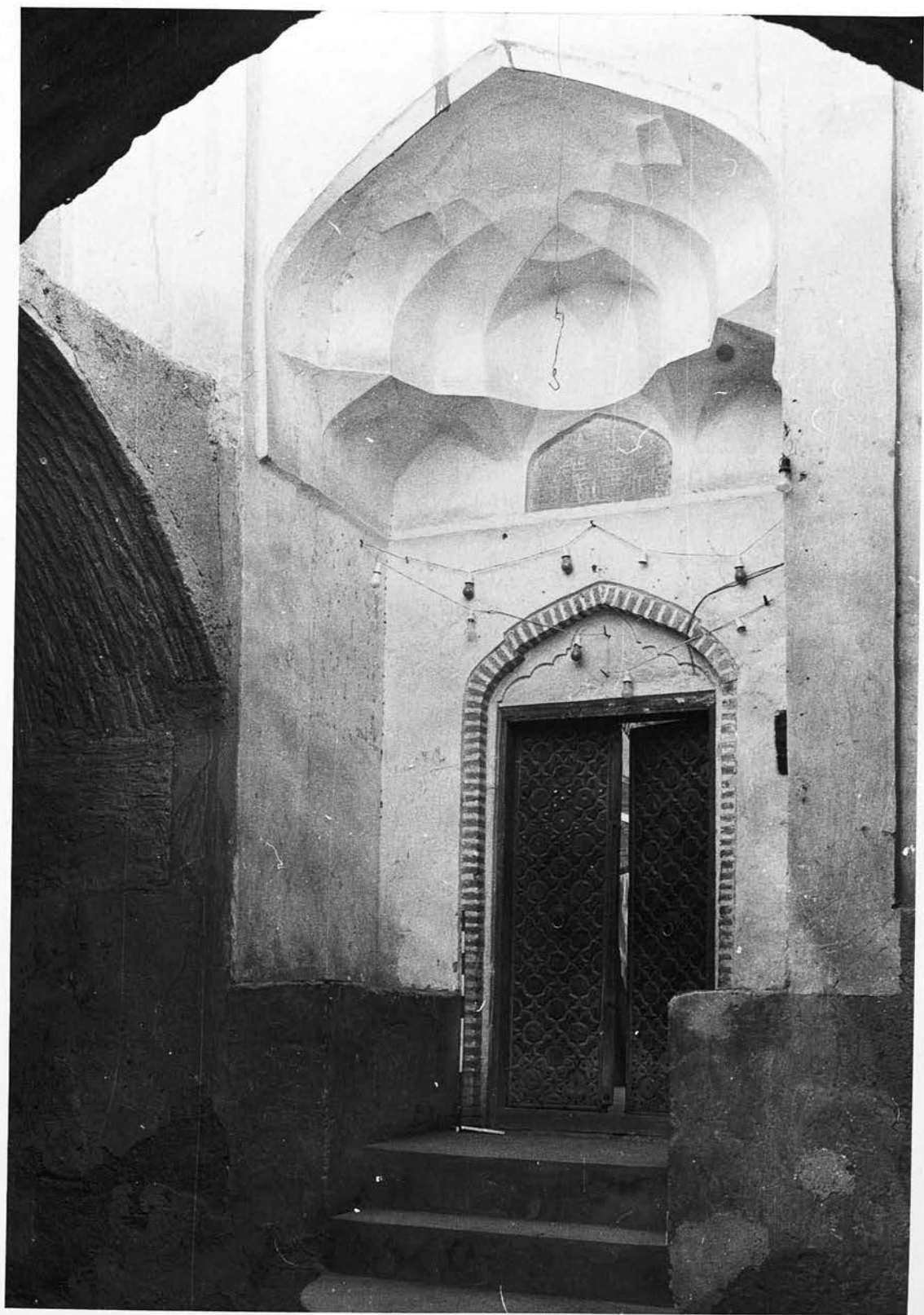
49- 'Aqdā, Iran; vaulted street to the south of the jāme' mosque.



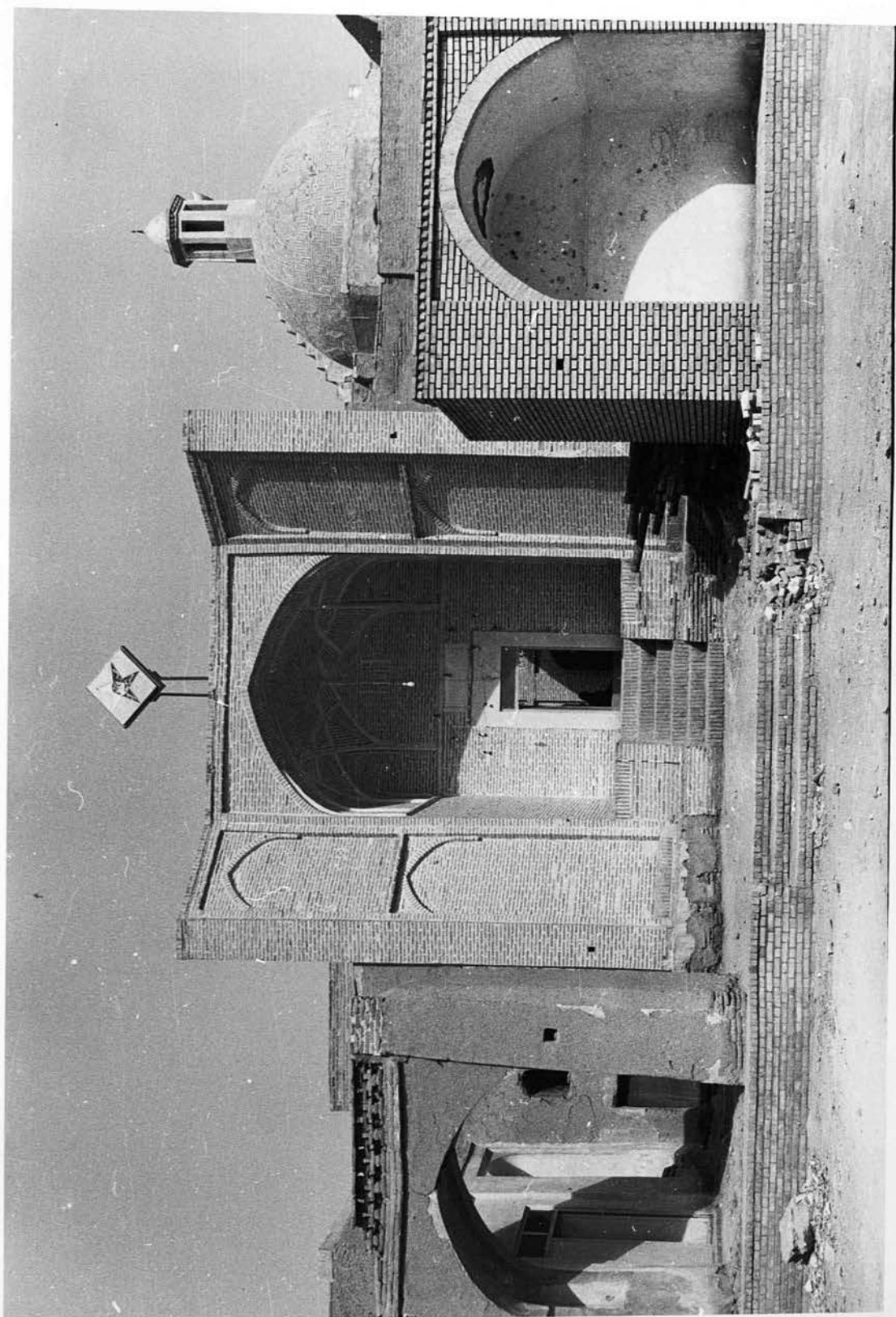
50—"Aqta", Iran; vaulted street at the south-east of the jānē' mosque.



51- 'Aqdā, Iran; the jāmē mosque - Eastern entrance opens to the vaulted streets.



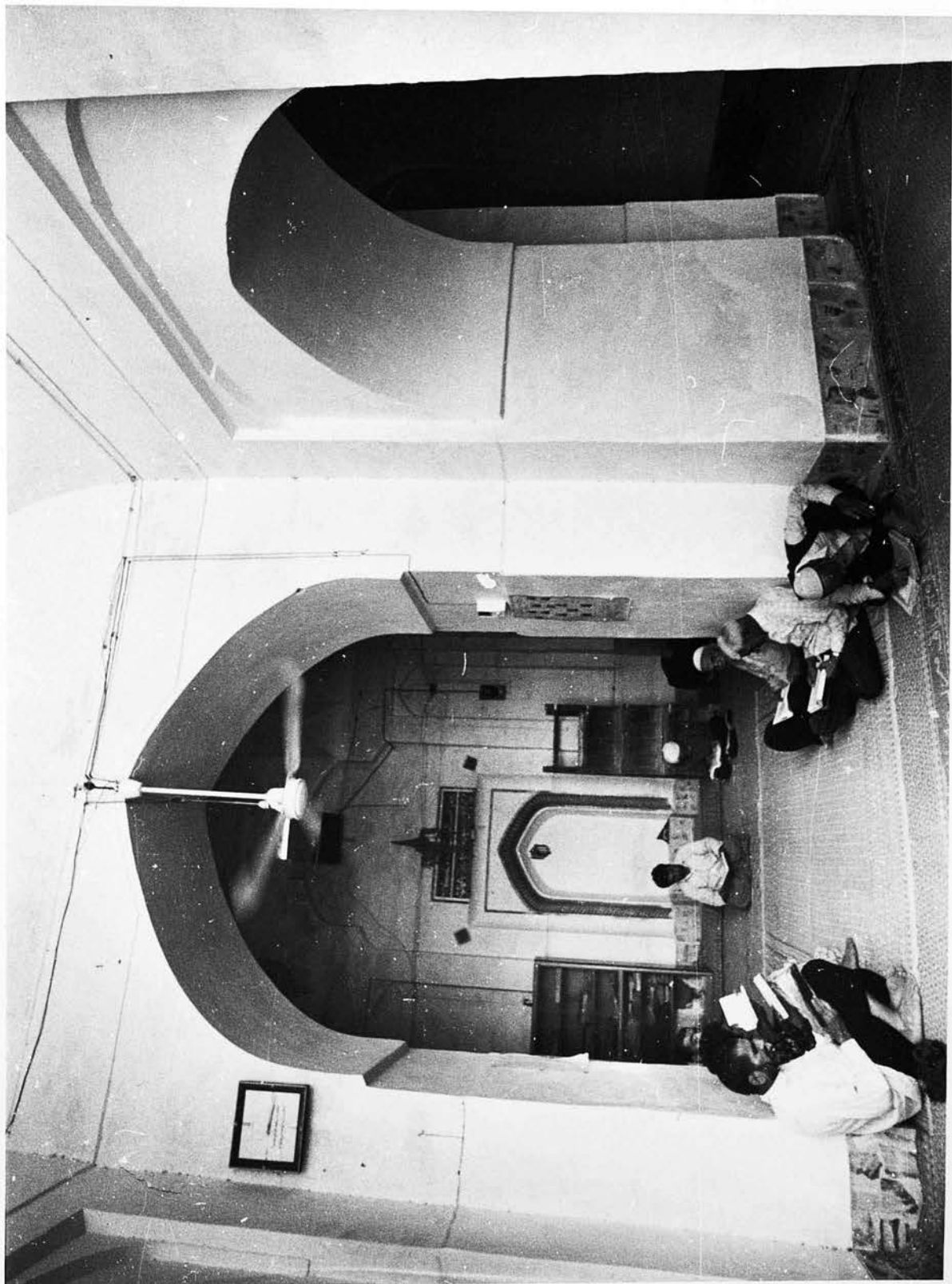
52- 'Aqdâ, Iran; the jâme' mosque - Eastern entrance.



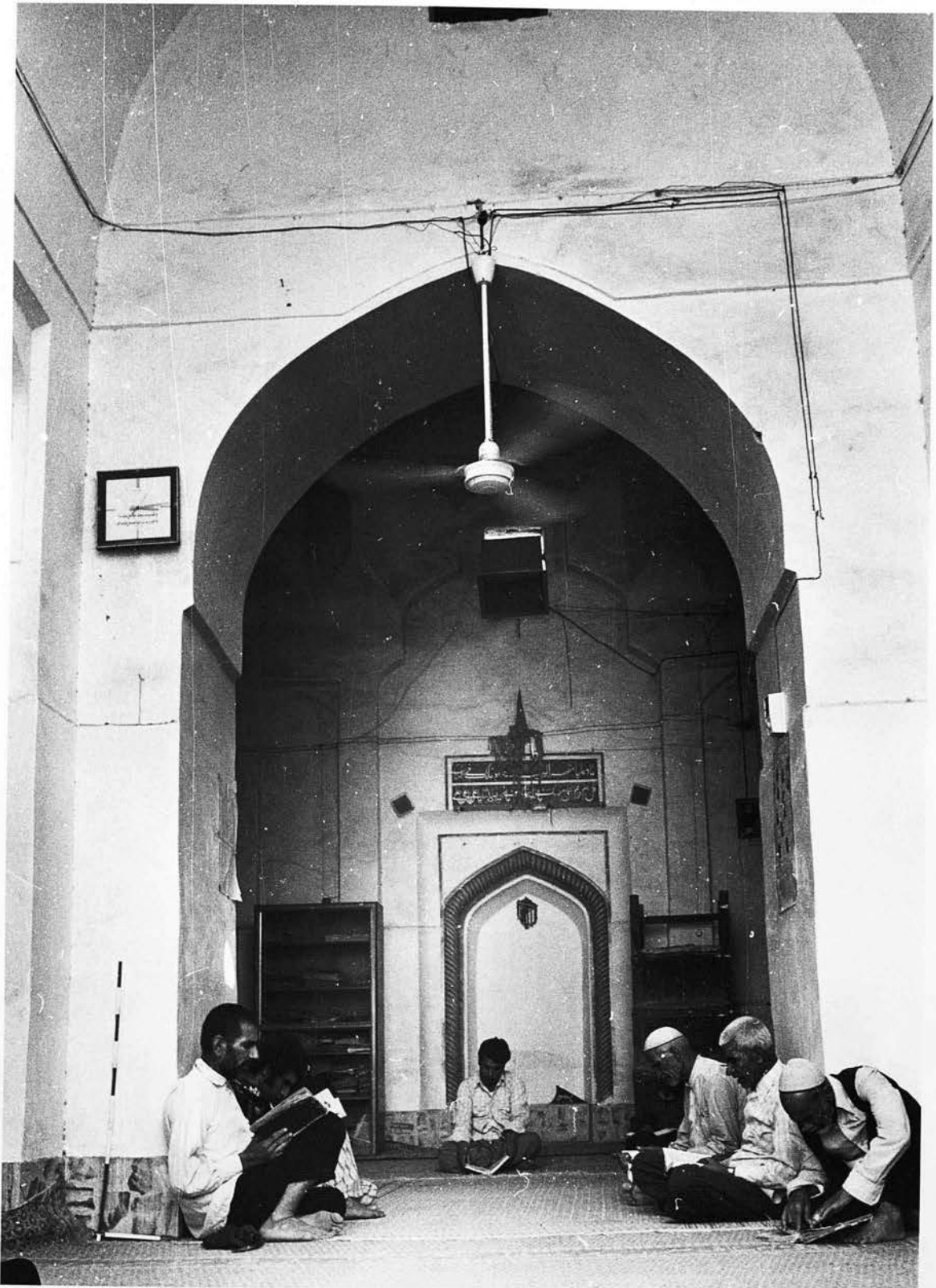
53- 'Aqdā, Iran; the jāmē mosque - Western entrance.



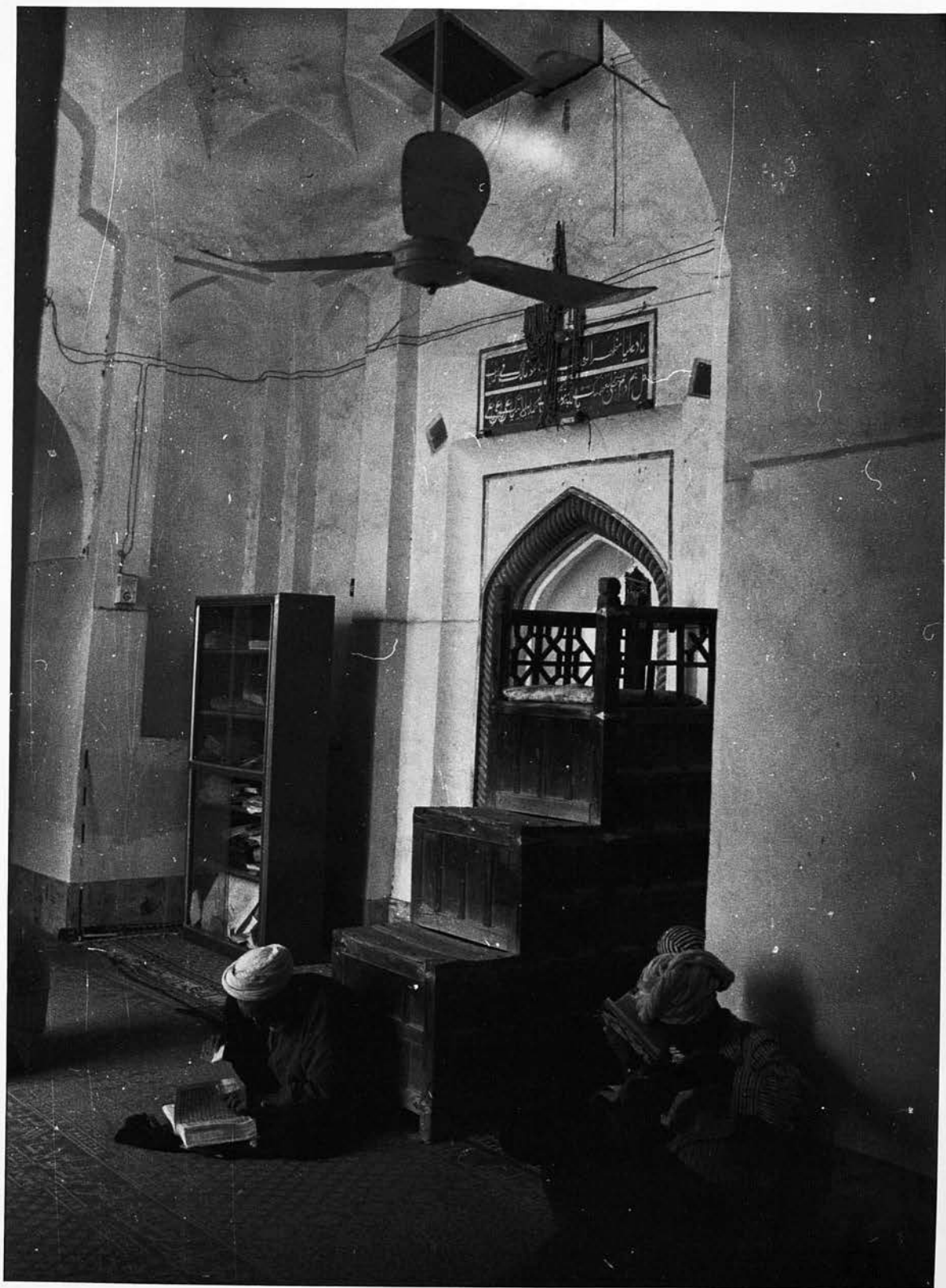
54- 'Aqdā, Iran; the jāme' mosque - Southern ivan.



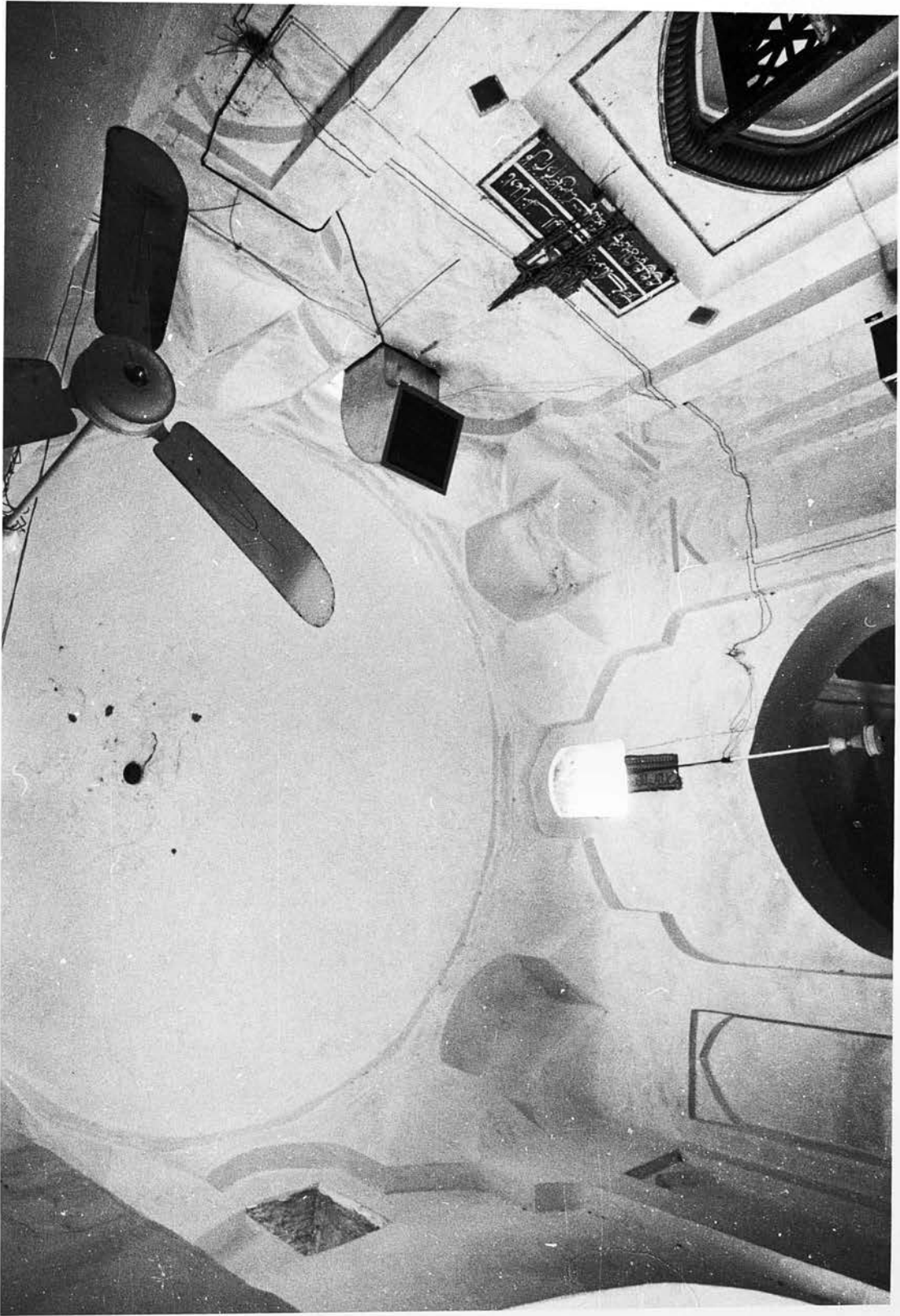
55- 'Aqdā, Iran; the jame' mosque- Southern ivan looking to the sanctuary .



56- 'Aqdā, Iran; the jāmē' mosque-The mihrab at the sanctuary .



7- 'Aqdā, Iran; the jāmē' mosque- The sanctuary; south east corner .



58- 'Aqdā, Iran; the jāme' mosque- Interior view of the dome showing the bowl .



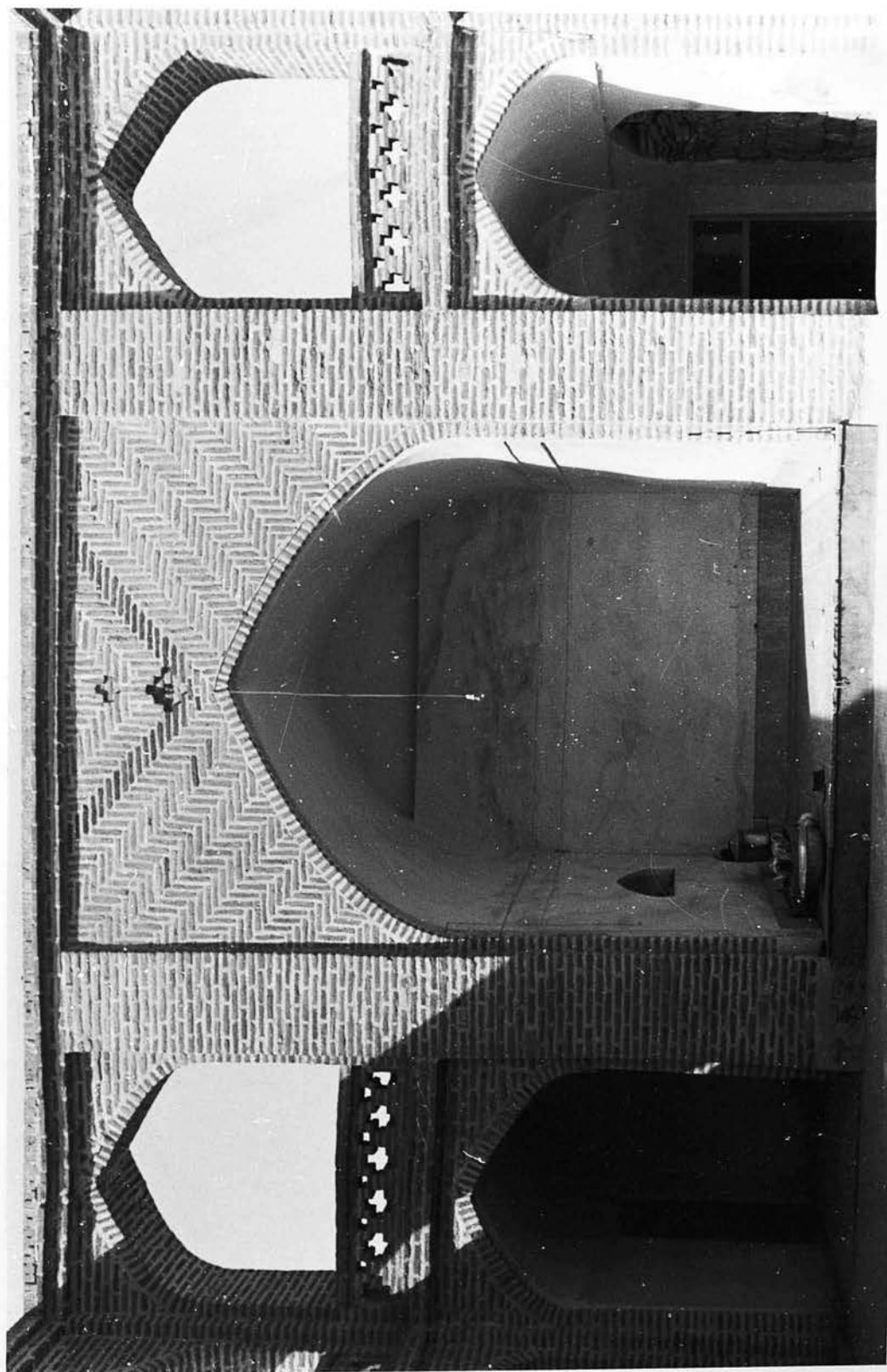
- 'Aqdā, Iran; the jāme' mosque-Correction of the qeble at the gallery I .



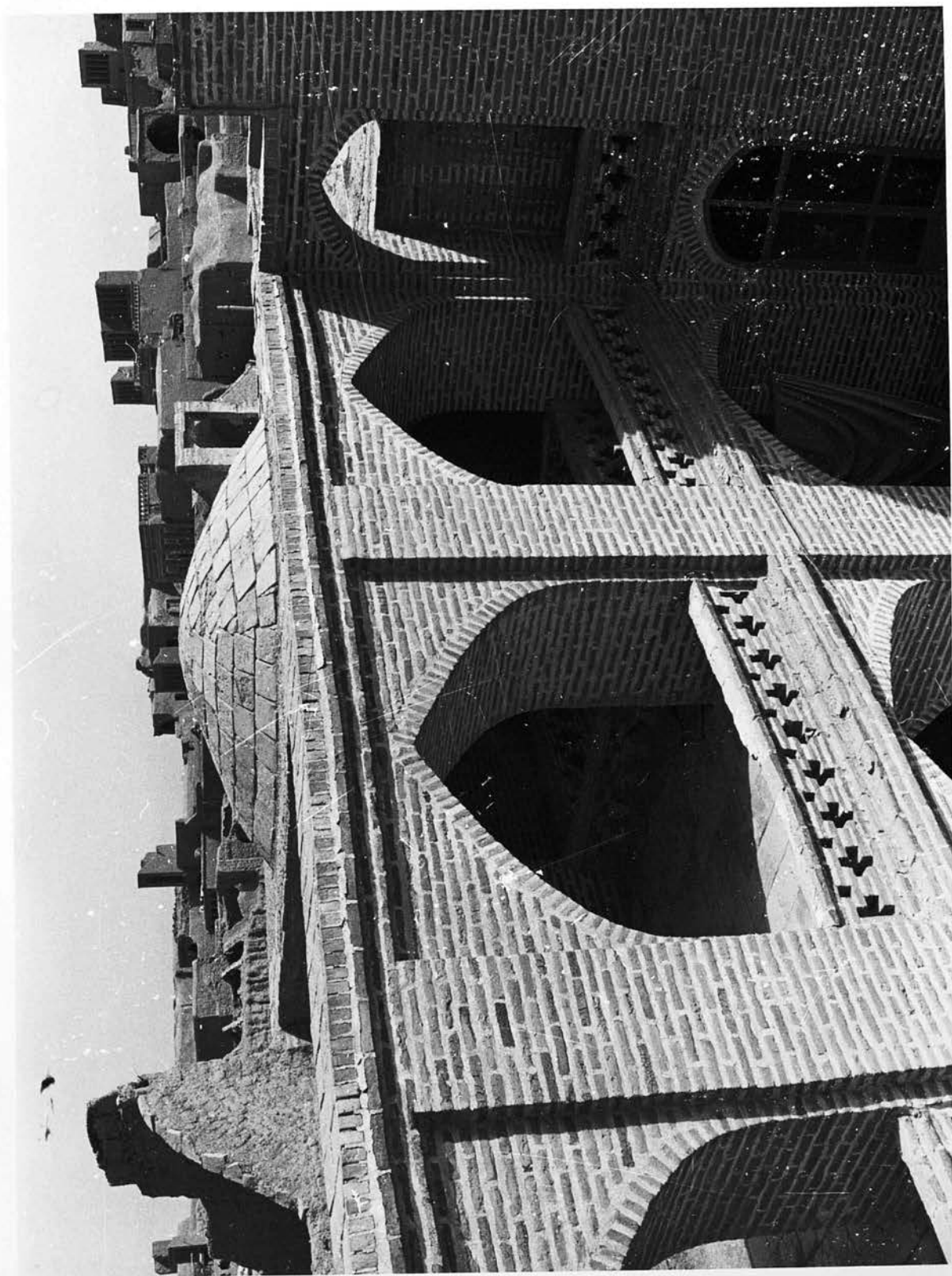
60- 'Aqdā, Iran; the jāmē' mosque- The shabestān, view to the north .



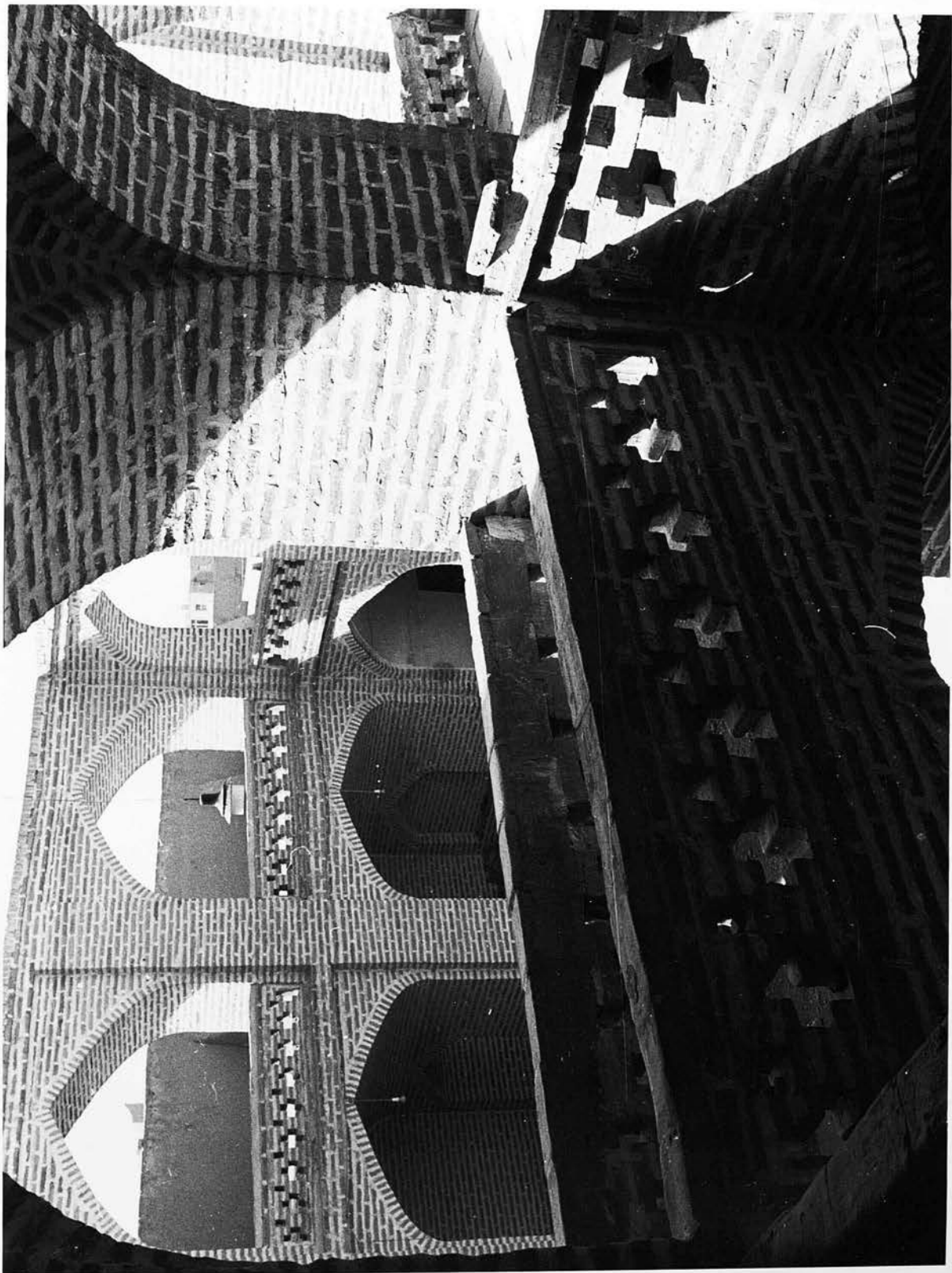
61- 'Aqdā, Iran; the jāme' mosque- Chamber "K" of the shabestān .



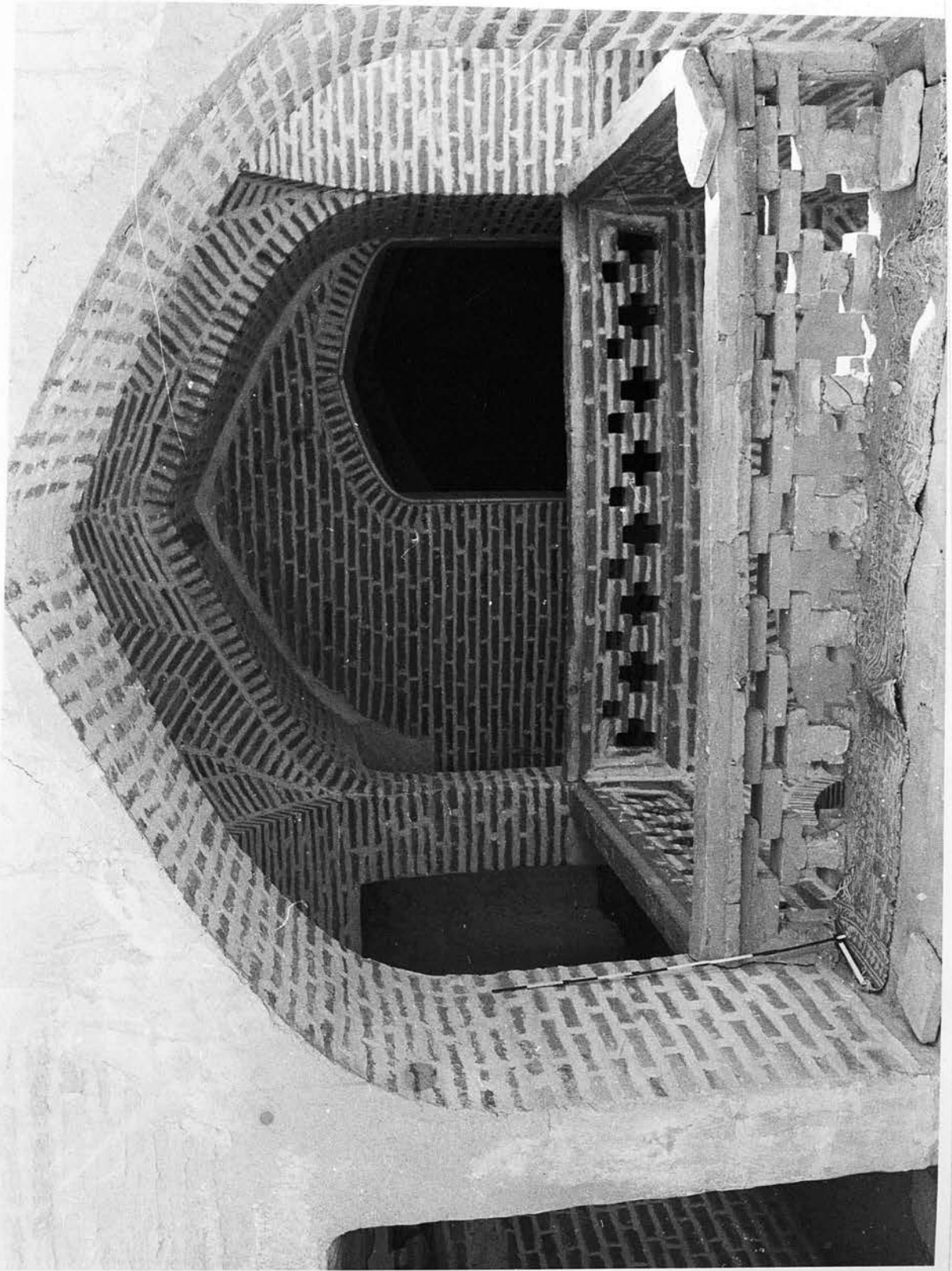
62- 'Aqdā, Iran; the jāme' mosque- Northern ivan .



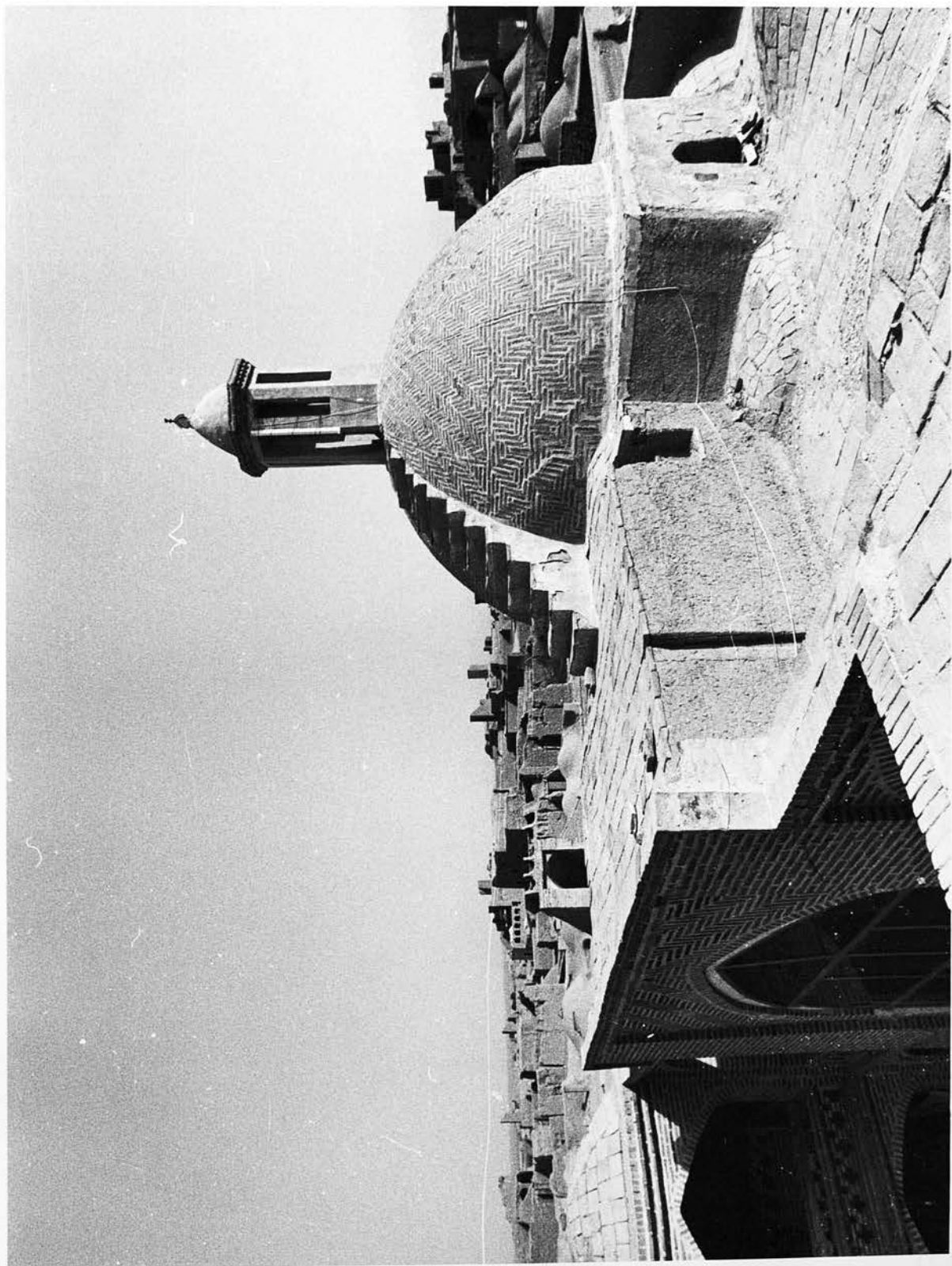
63- 'Aqdā, Iran; the jāme' mosque- Eastern arcade .



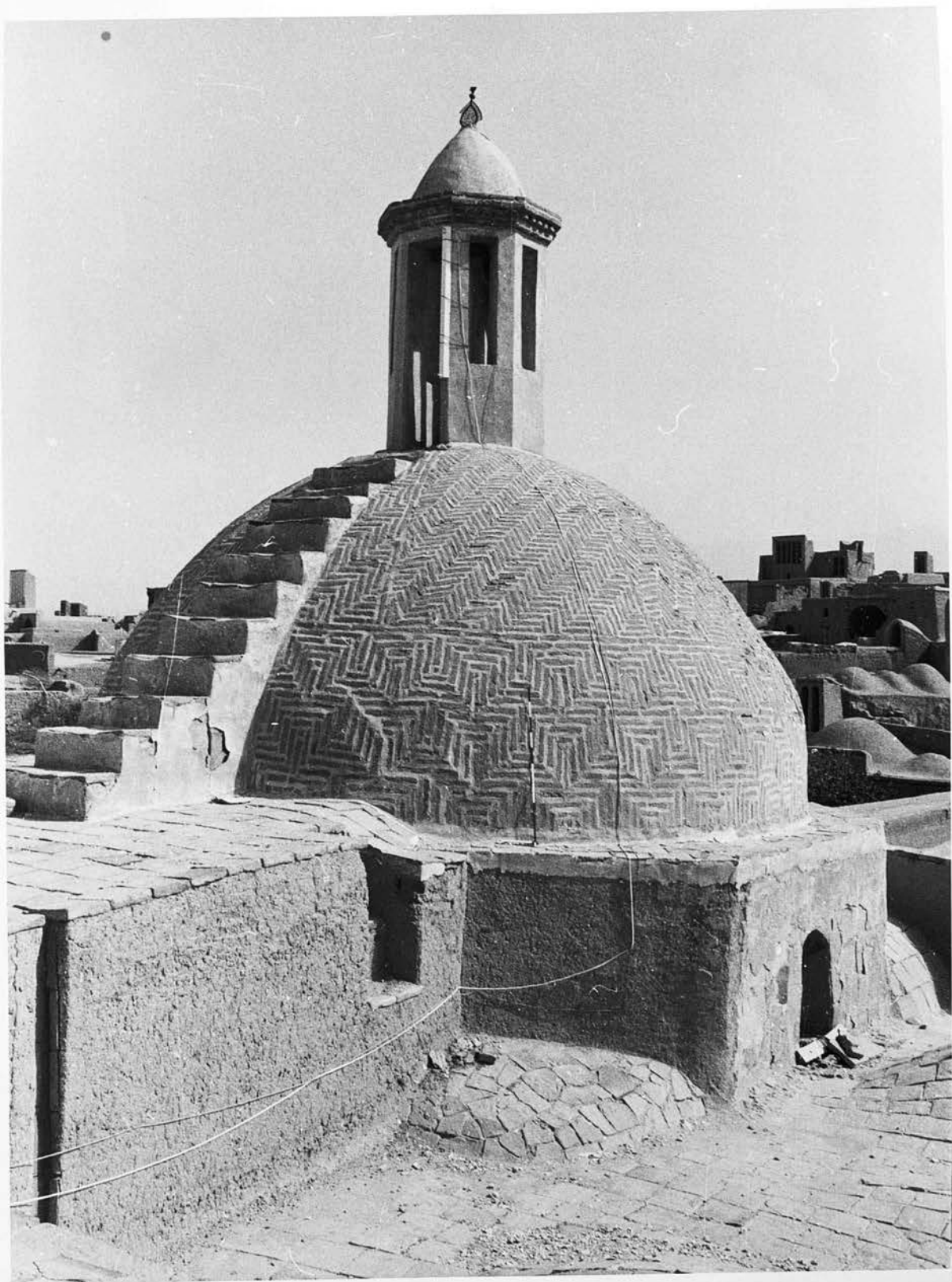
64- 'Aqdā, Iran; the jāme' mosque- Upper arcades .



65- 'Aqdā, Iran; the jame' mosque- Upper storey of the eastern arcade .



66- 'Aqdā, Iran; the jāmē' mosque- General view of the roof .



67- 'Aqdā, Iran; the jāme' mosque- The dome .



68- 'Aqdā, Iran; the jāme' mosque- The roof as an active section of the structure for the use of women .



69- 'Aqdā, Iran; the jāme' mosque- The foundation inscription on the blue glazed tile .



70- Herat, Afghanistan- The shrine of Shāhzāde Abolqāsem, view from the north west .



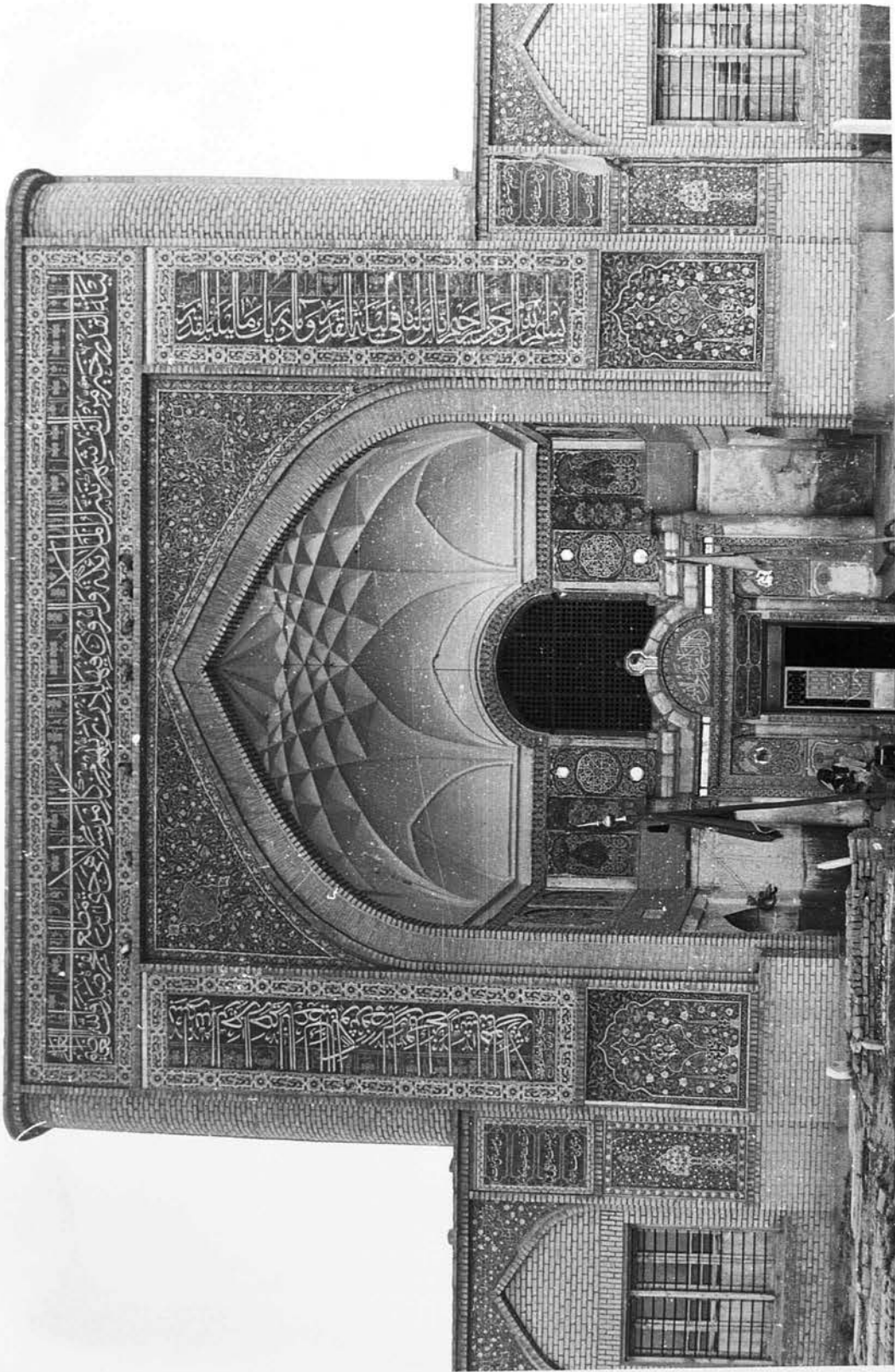
1- Herat, Afghanistan-The shrine of Shāhzāde Abolqasem, northern facade .



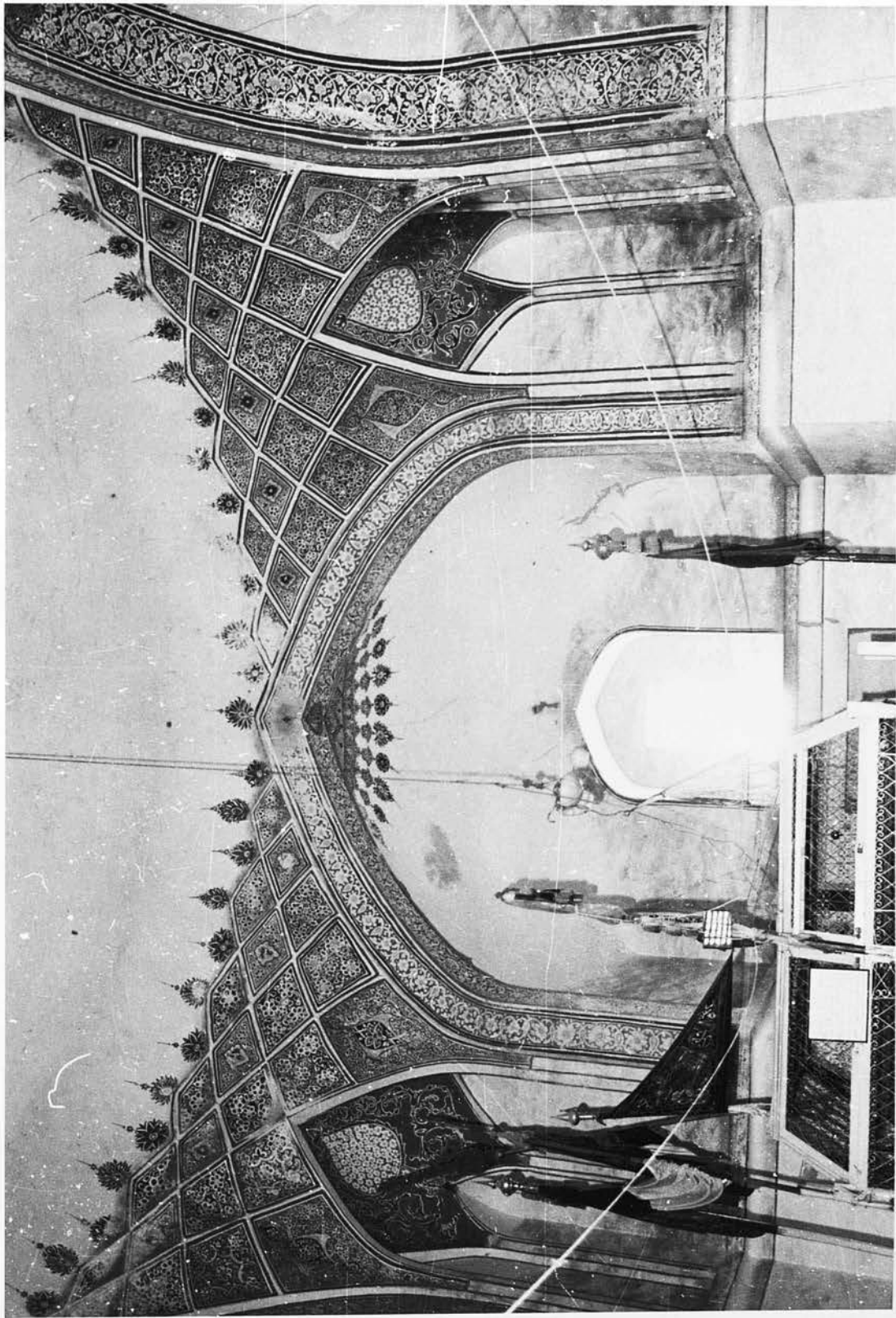
72- Herat, Afghanistan-The shrine of Shāhzāde Abolqāsem, view from the south west .



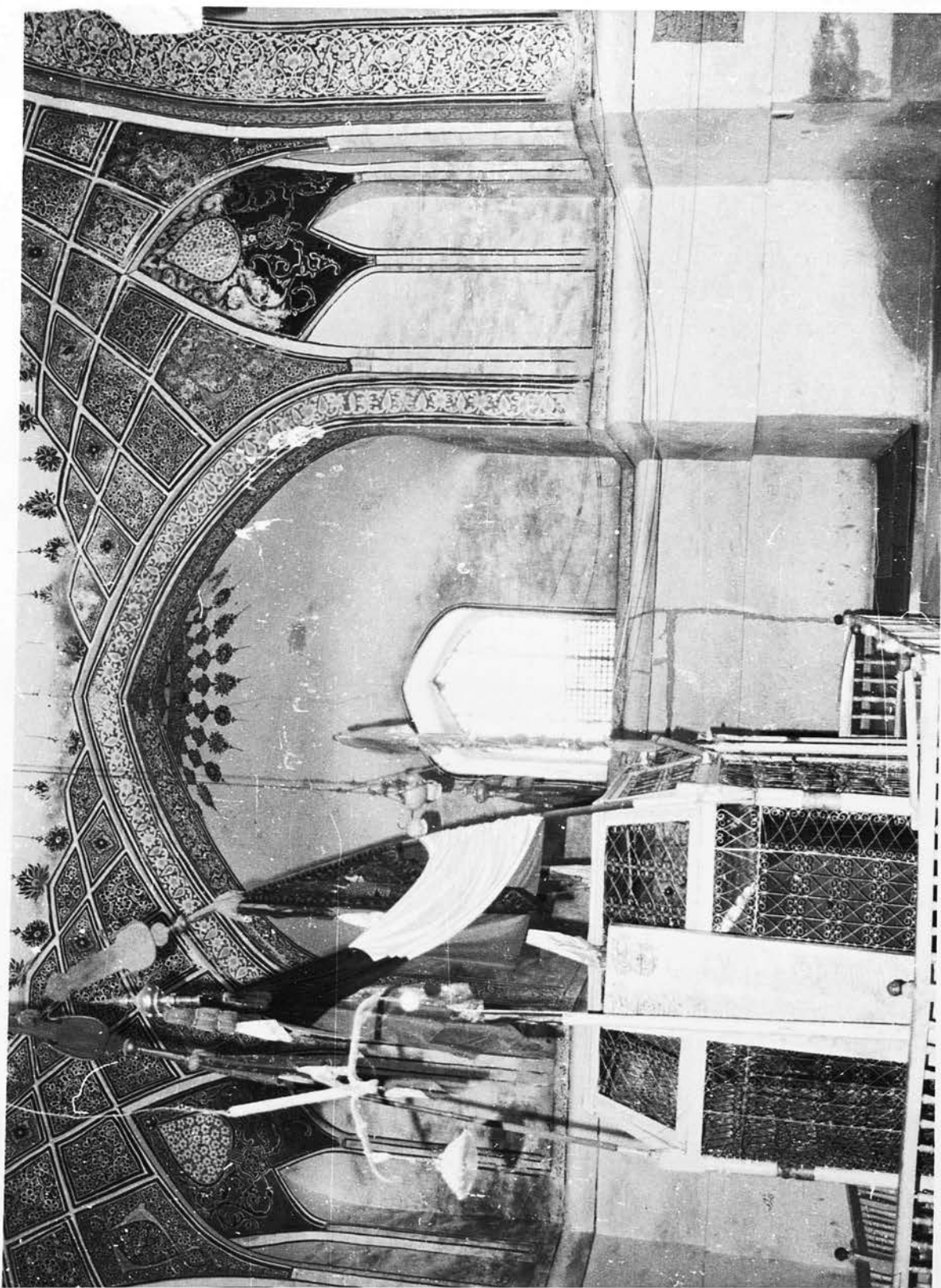
73-Herat, Afghanistan-The shrine of Shāhzāde Abolqāsem, southern view .



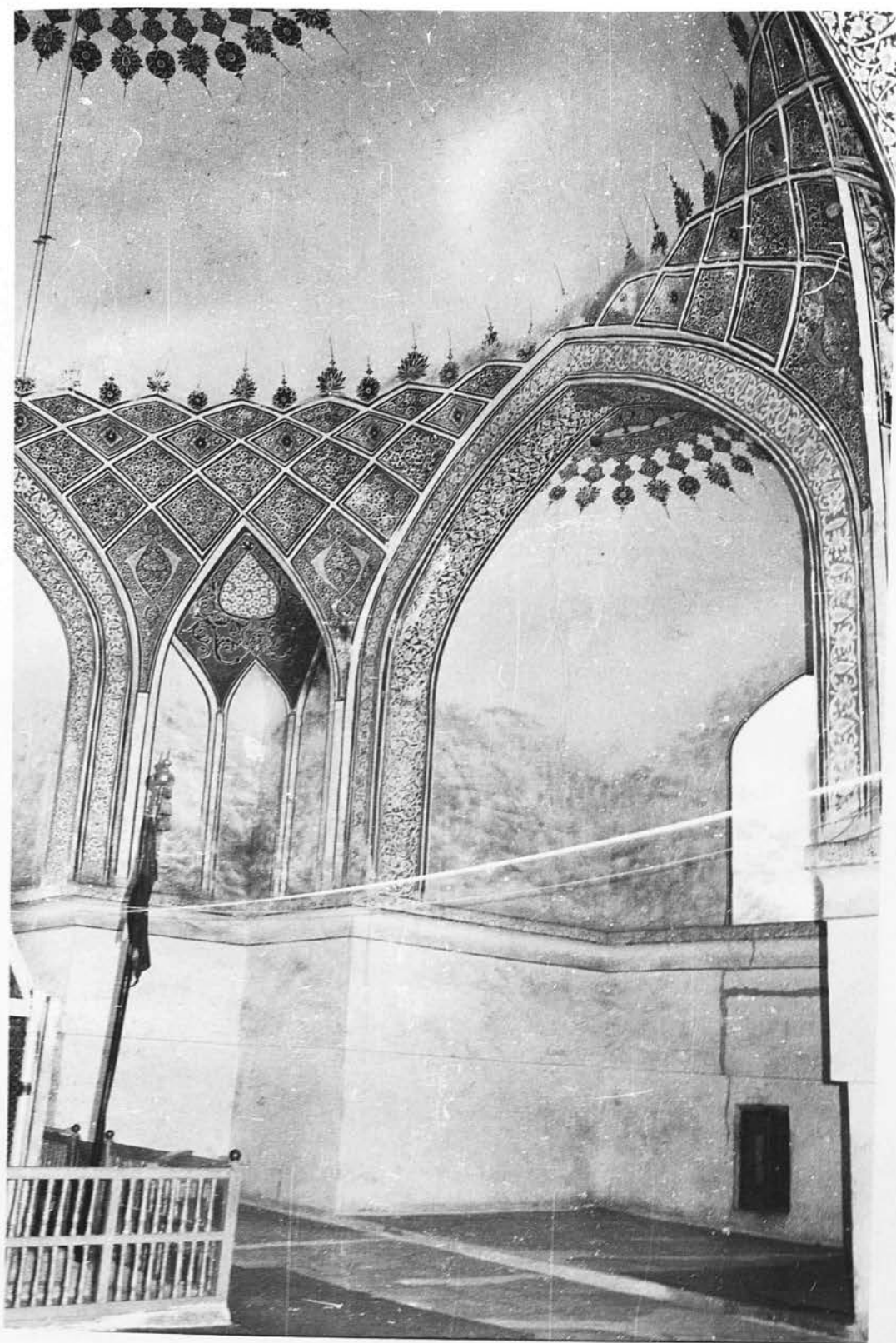
-Herat, Afghanistan-The shrine of Shāhzāde Abolqāsem, entrance portal .



Herat, Afghanistan-The shrine of Shāhzāde Abolqāsem, interior view of upper part of the eastern nich .



76-Herat, Afghanistan-The shrine of Shāhzāde Abolqāsem, interior view of the eastern nich .



77-Herat, Afghanistan-The shrine of Shāhzāde Abolqāsem, interior view of the southern nich .



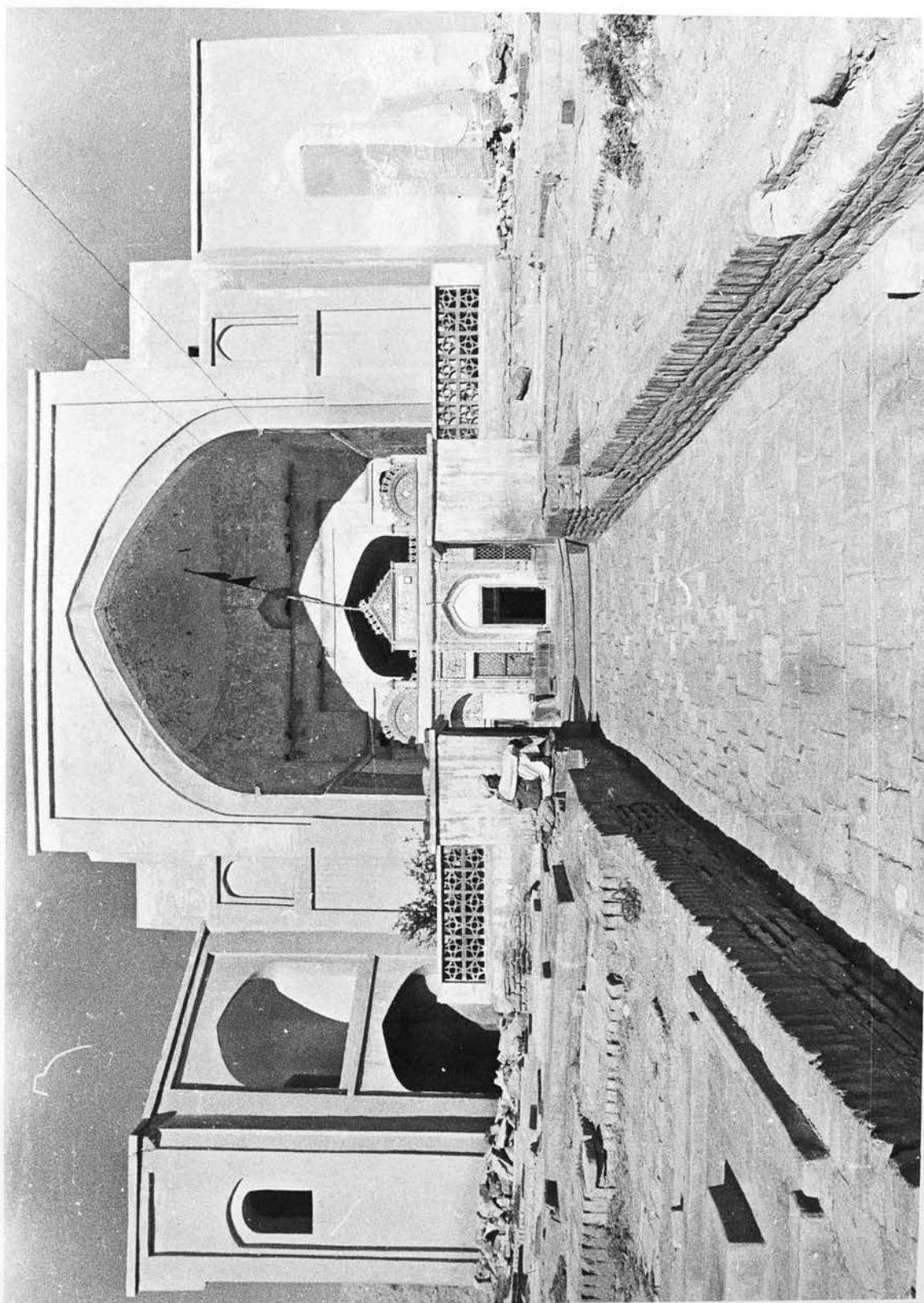
78-Herat, Afghanistan-The shrine of Shāhzāde 'Abdollāh, view from the south west .



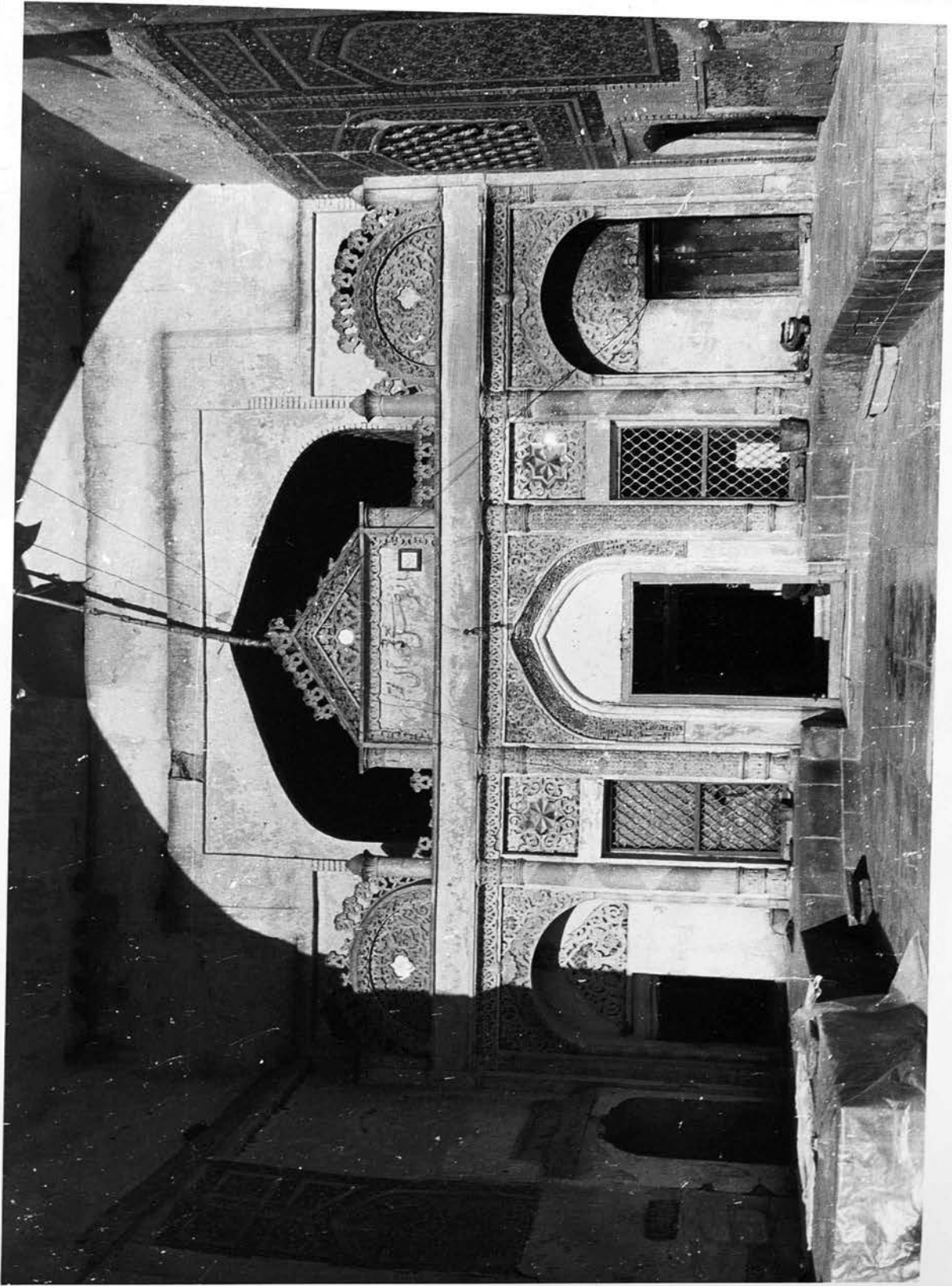
79-Herat, Afghanistan-The shrine of Shāhzāde 'Abdollāh, view from the south east .



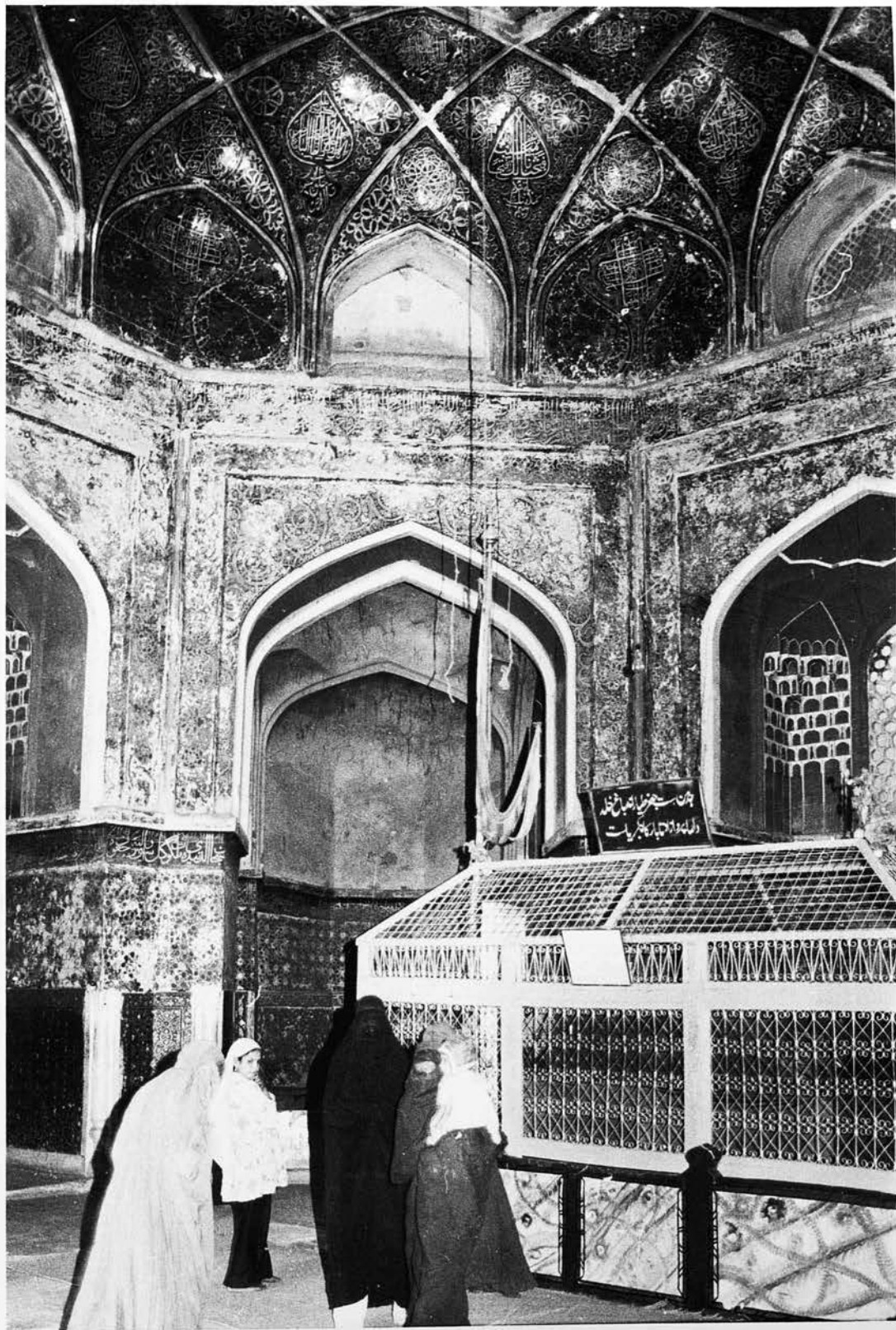
80-Herat, Afghanistan-The shrine of Shāhzāde 'Abdollāh, northern view .



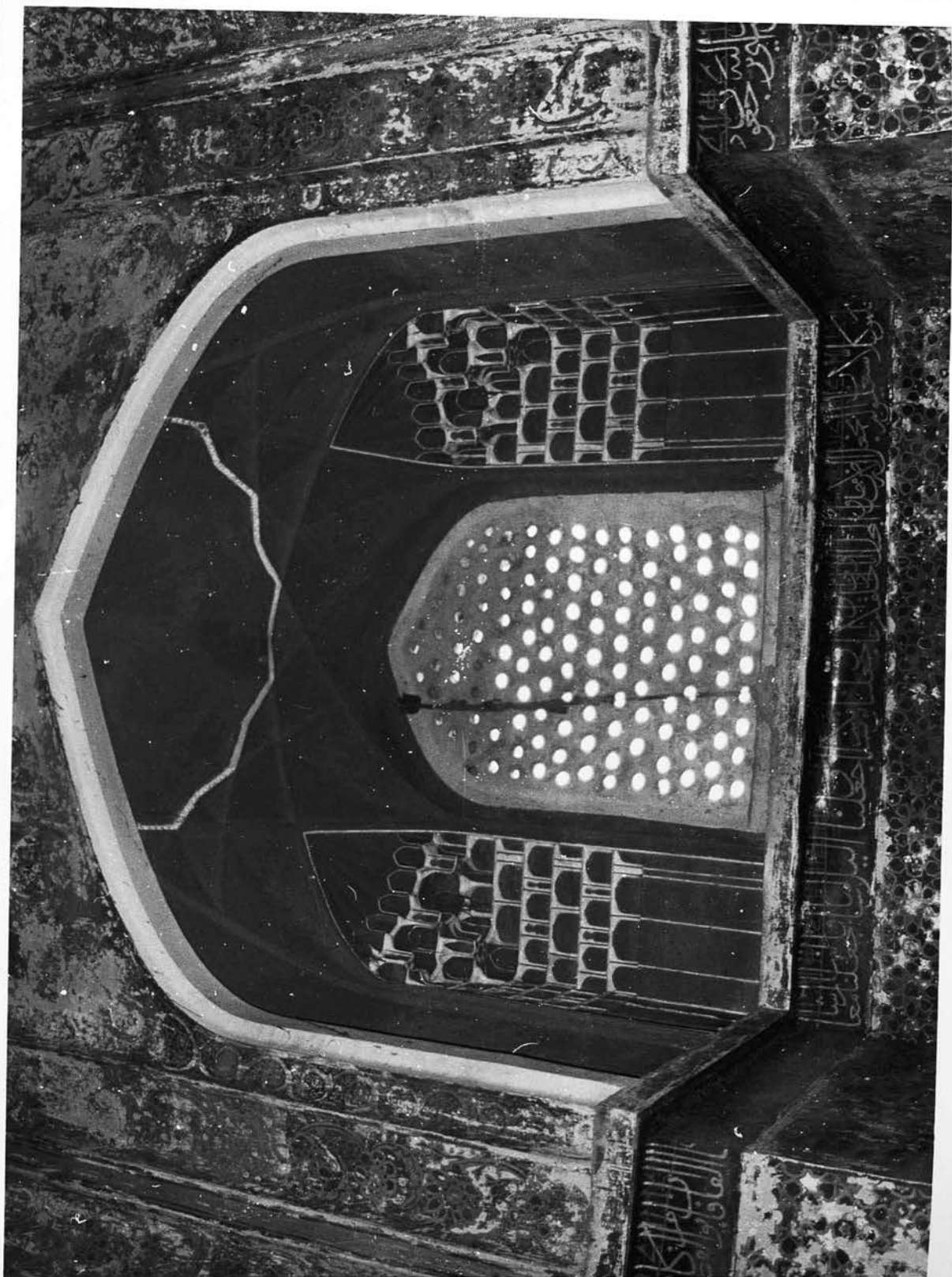
81-Herat, Afghanistan; The shrine of Shāhzāde Abdollāh, western facade .



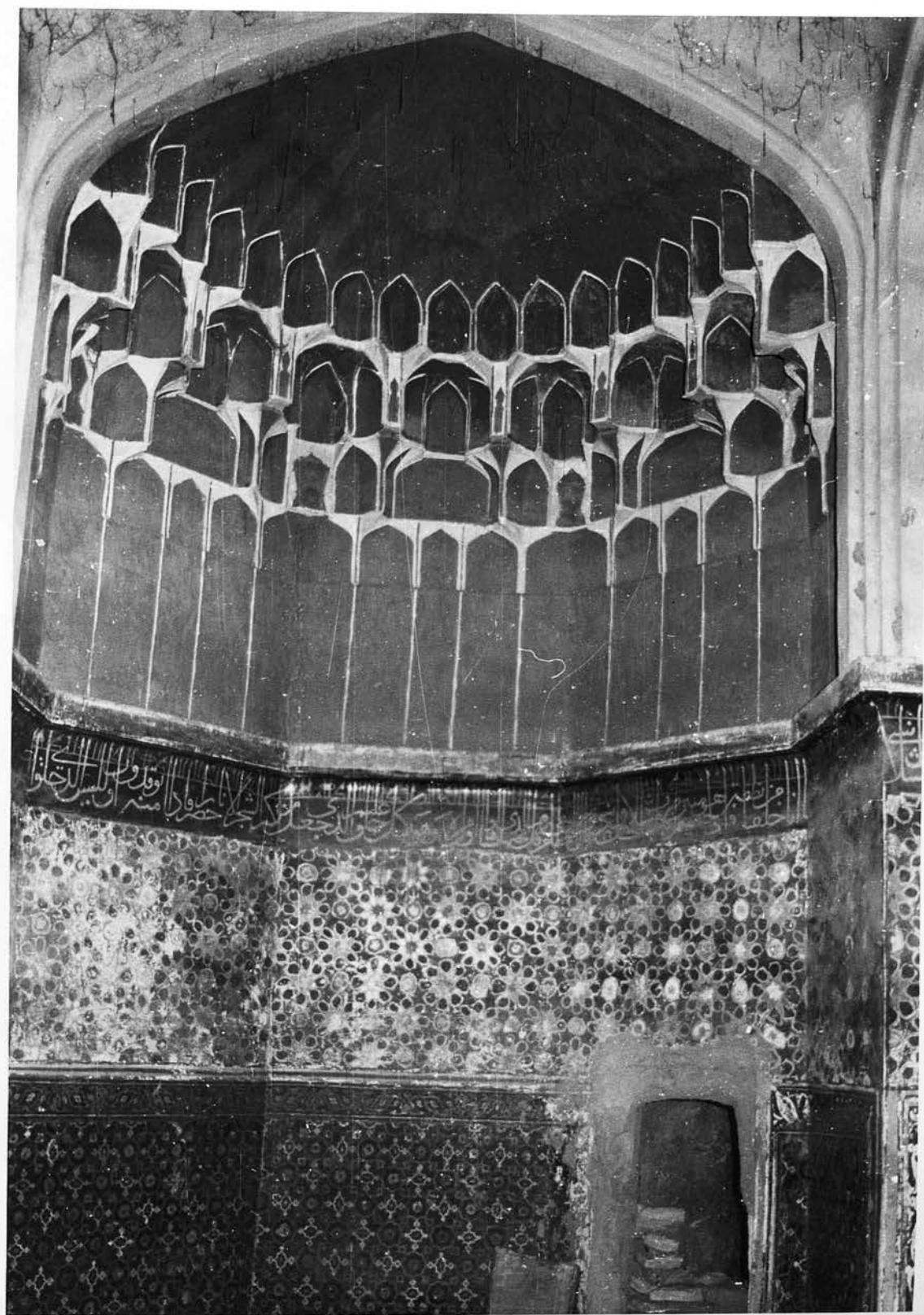
82-Herat, Afghanistan-The shrine of Shāh-zāde 'Abdollah, entrance portal .



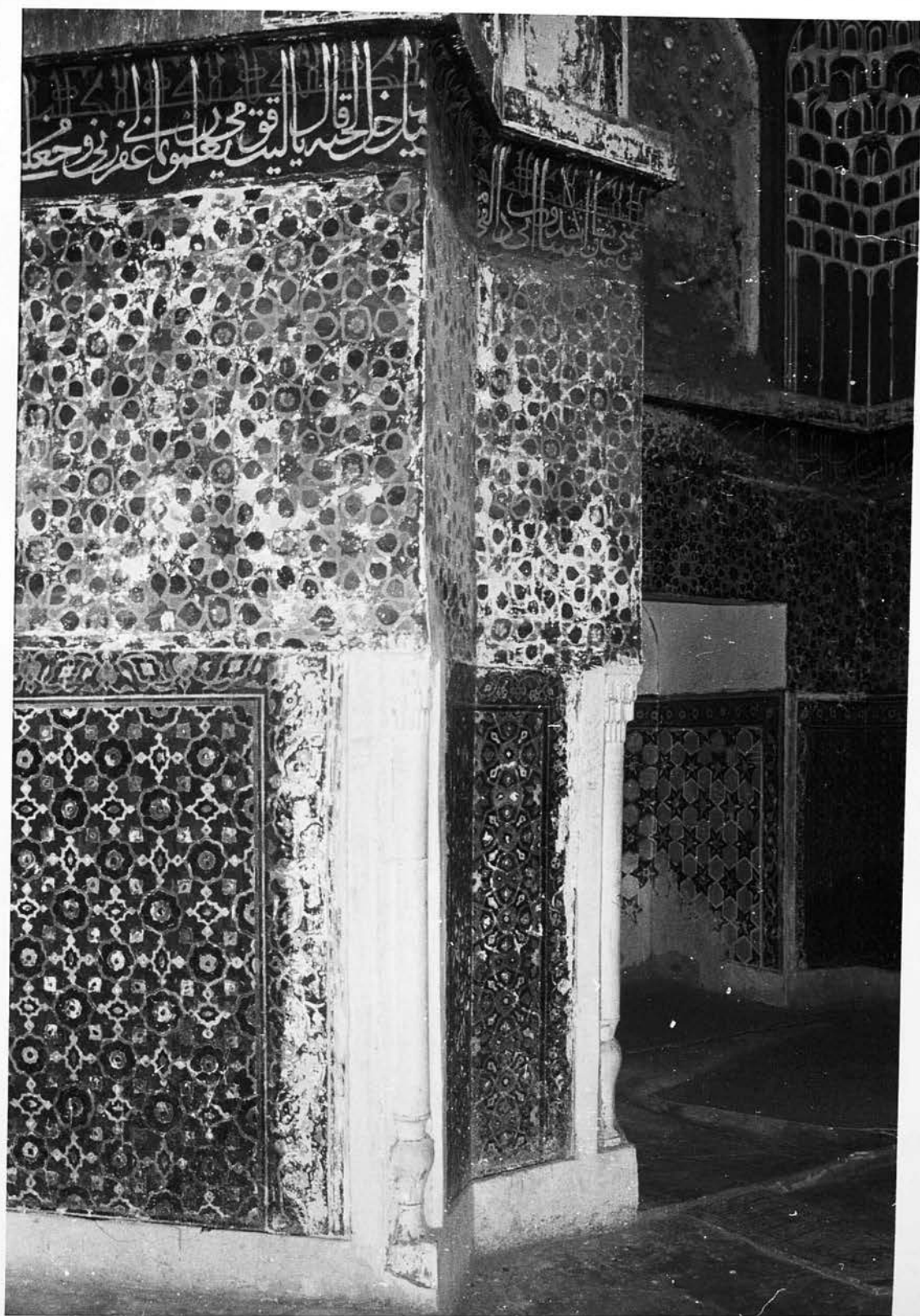
83-Herat, Afghanistan-The shrine of Shāhzāde 'Abdollāh, interior view of the north-east corner .



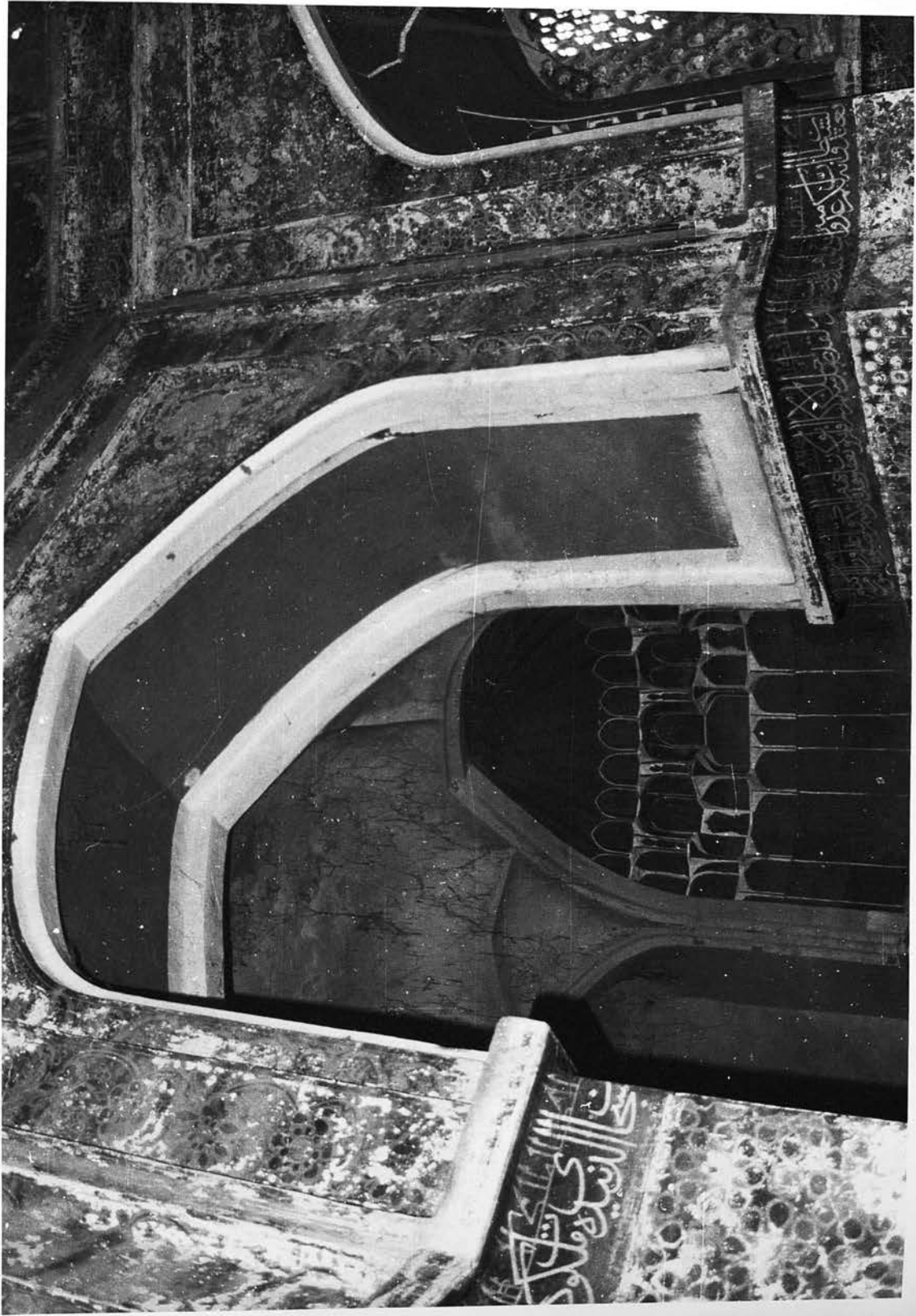
84-Herat, Afghanistan; The shrine of Shāhzāde 'Abdollah, stucco moqarnases, wall paintings and inscription of the niches .



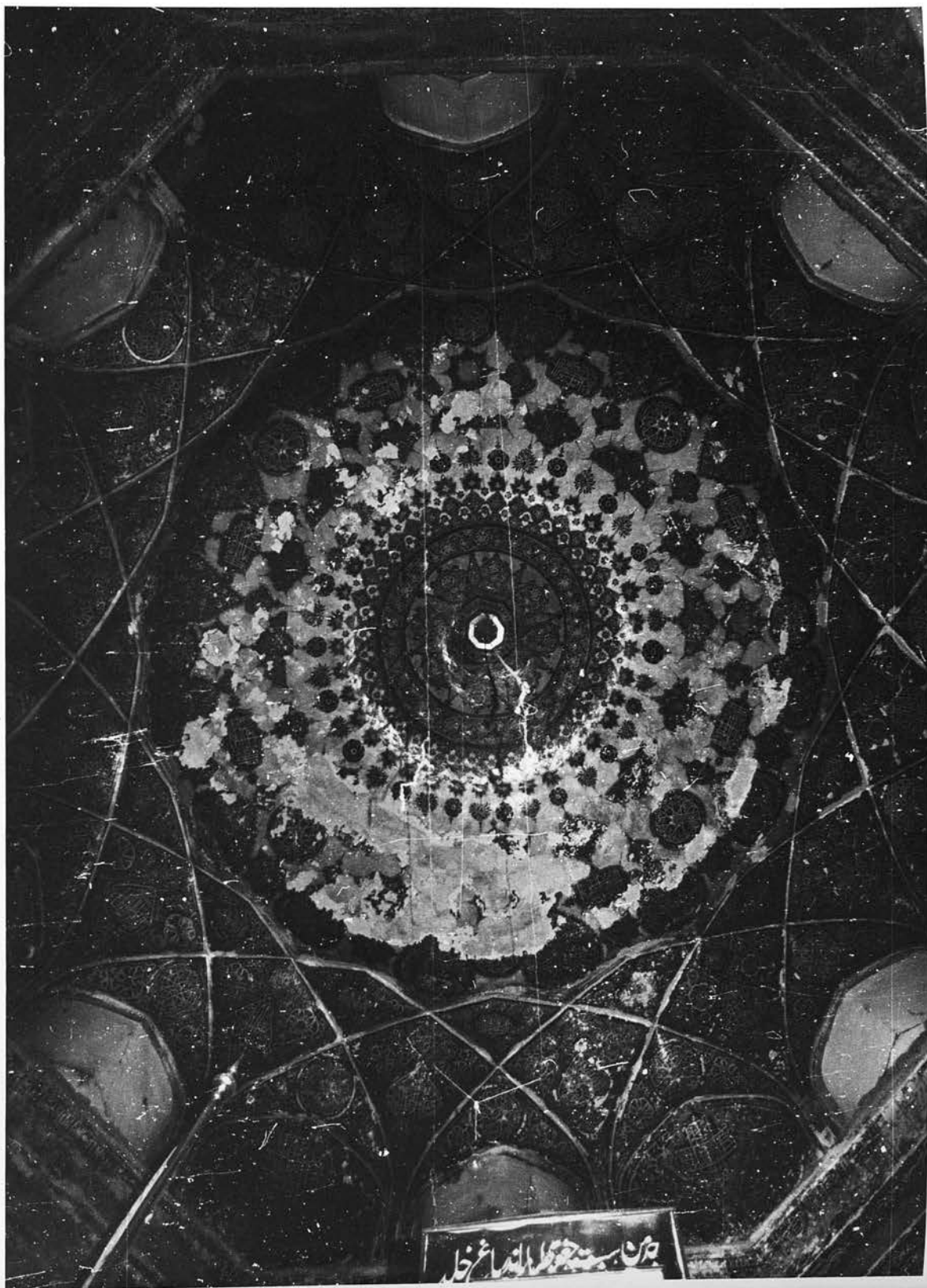
85- Herat, Afghanistan-The shrine of Shāhzāde 'Abdollāh, wall paintings and tyle-works .



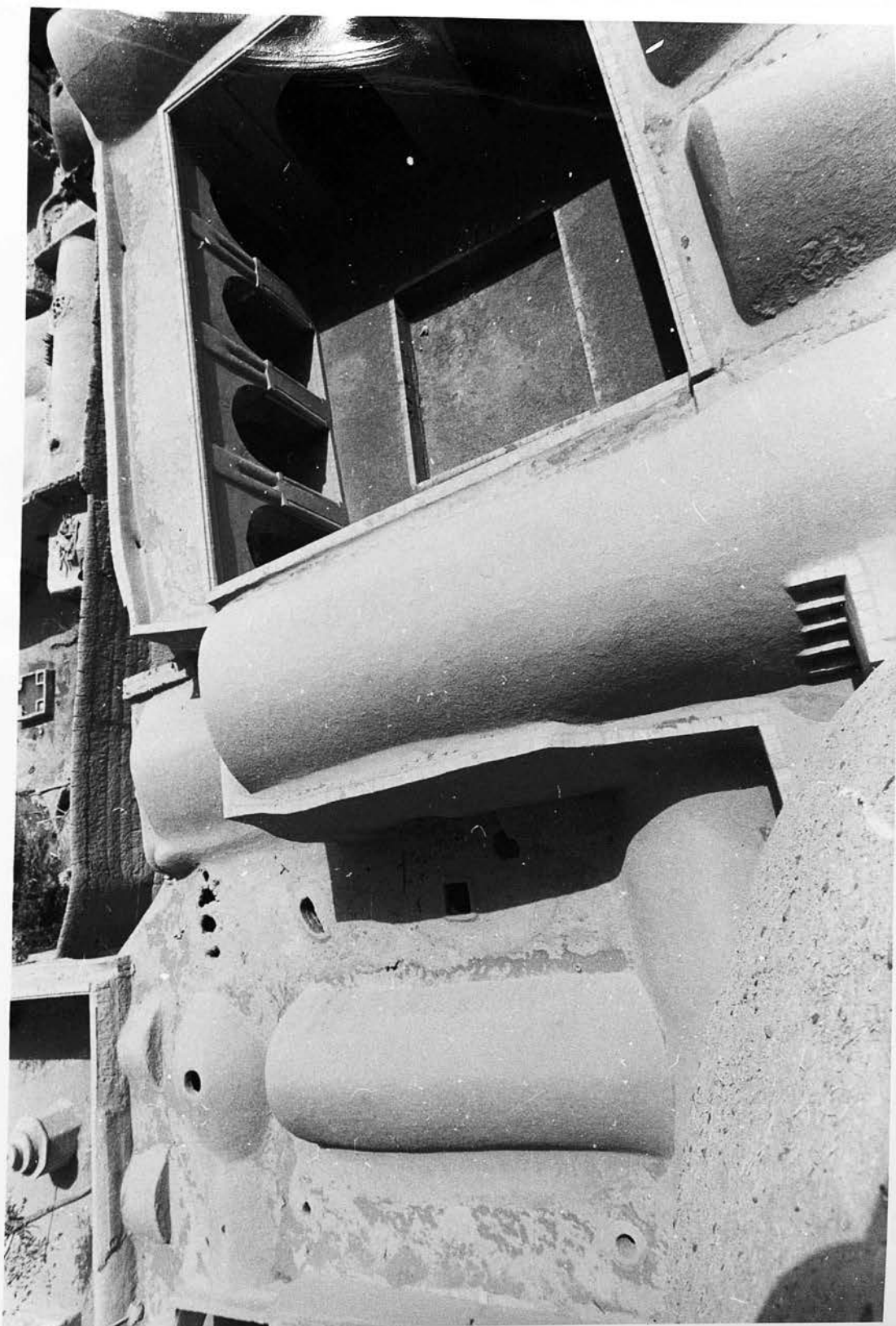
86-Herat, Afghanistan-The shrine of Shāhzāde 'Abdollāh, geometrical tyle works of the Timurid period .



87-Herat, Afhnistan-The shrine of Shāhzāde 'Abdollāh, upper view of the north eastern chamber .



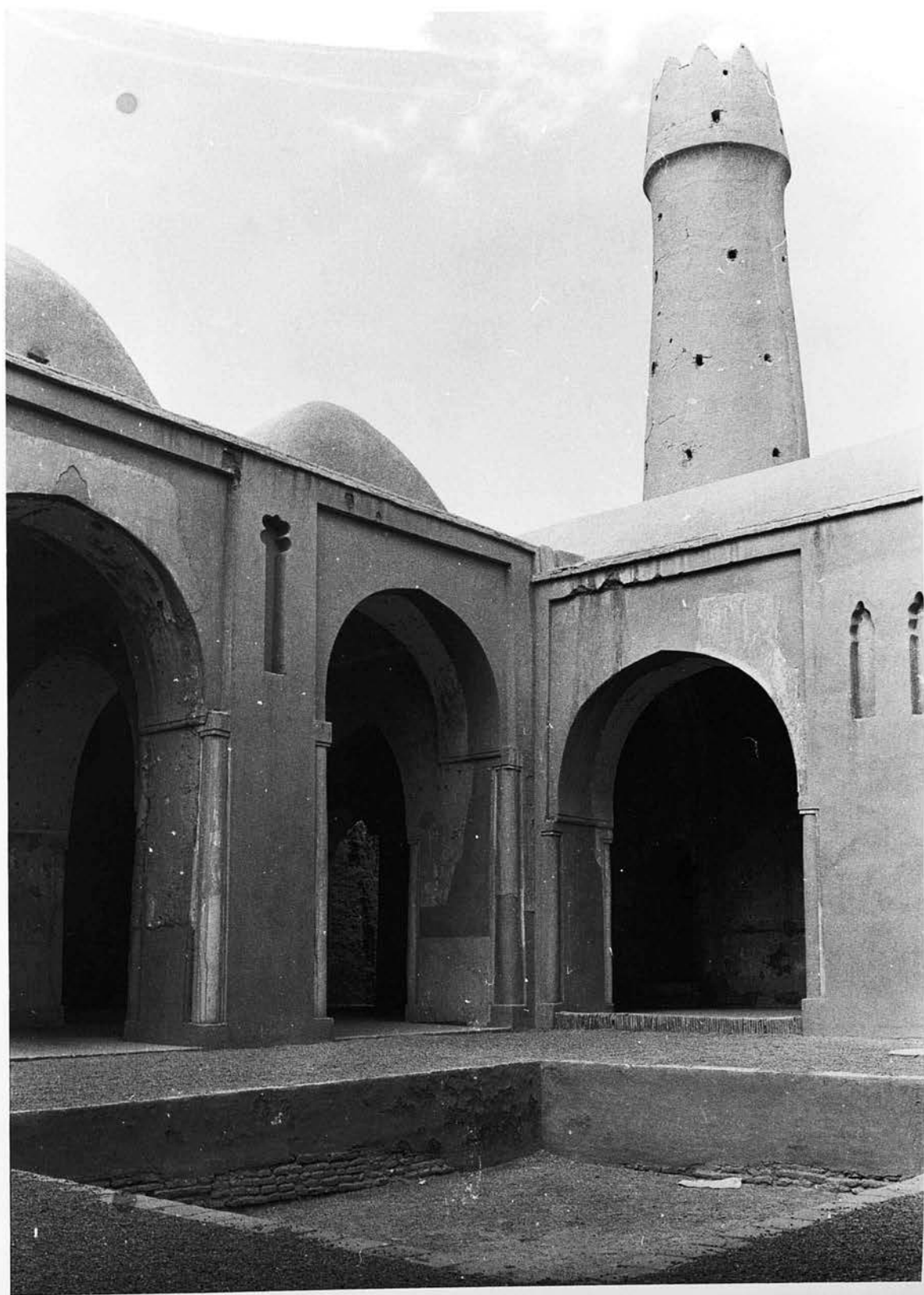
88-Herat, Afghanistan-The shrine of Shāhzāde 'Abdollāh, interior view of the dome decorated with wall-paintings .



89-Fahraj, Iran; The jāmeh mosque-View from the minaret looking to the north .



90-Fahraj, Iran; the jame' mosque-View from the minaret looking to the east .



91-Fahraj, Iran; the jāme' mosque-South-west view of the court-yard .



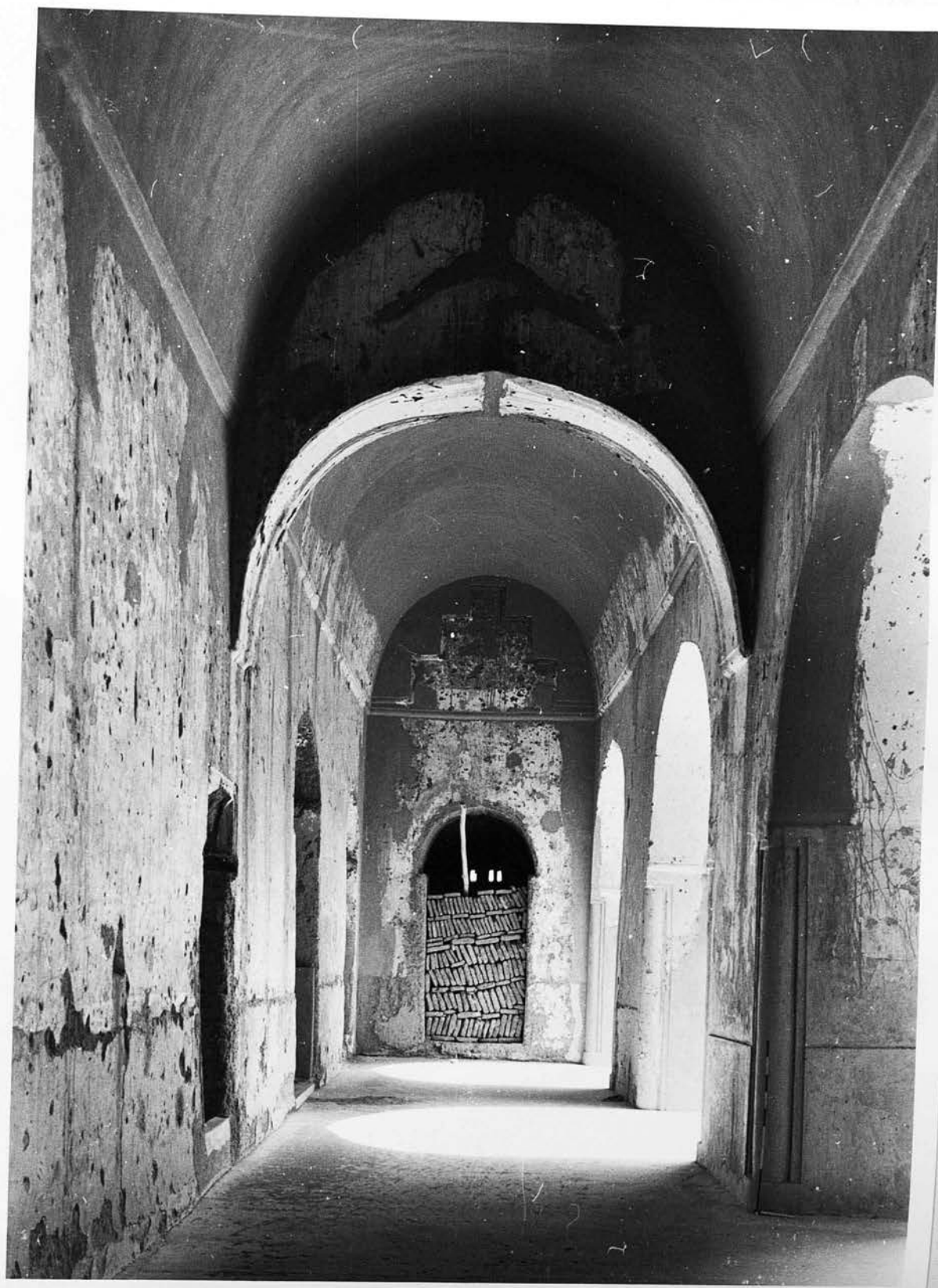
92-Fahraj, Iran; the jāme' mosque-North-east view of the court-yard .



93-Fahraj, Iran; the jāme' mosque-Southern view of the court-yard .



94-Fahraj, Iran; the jāme' mosque- Western arcade .



95-Fahraj, Iran; the jāmeh mosque-Northern end of the west aisle .



96-Fehraj, Iran; the jāme' mosque-North arcade; original entrances .



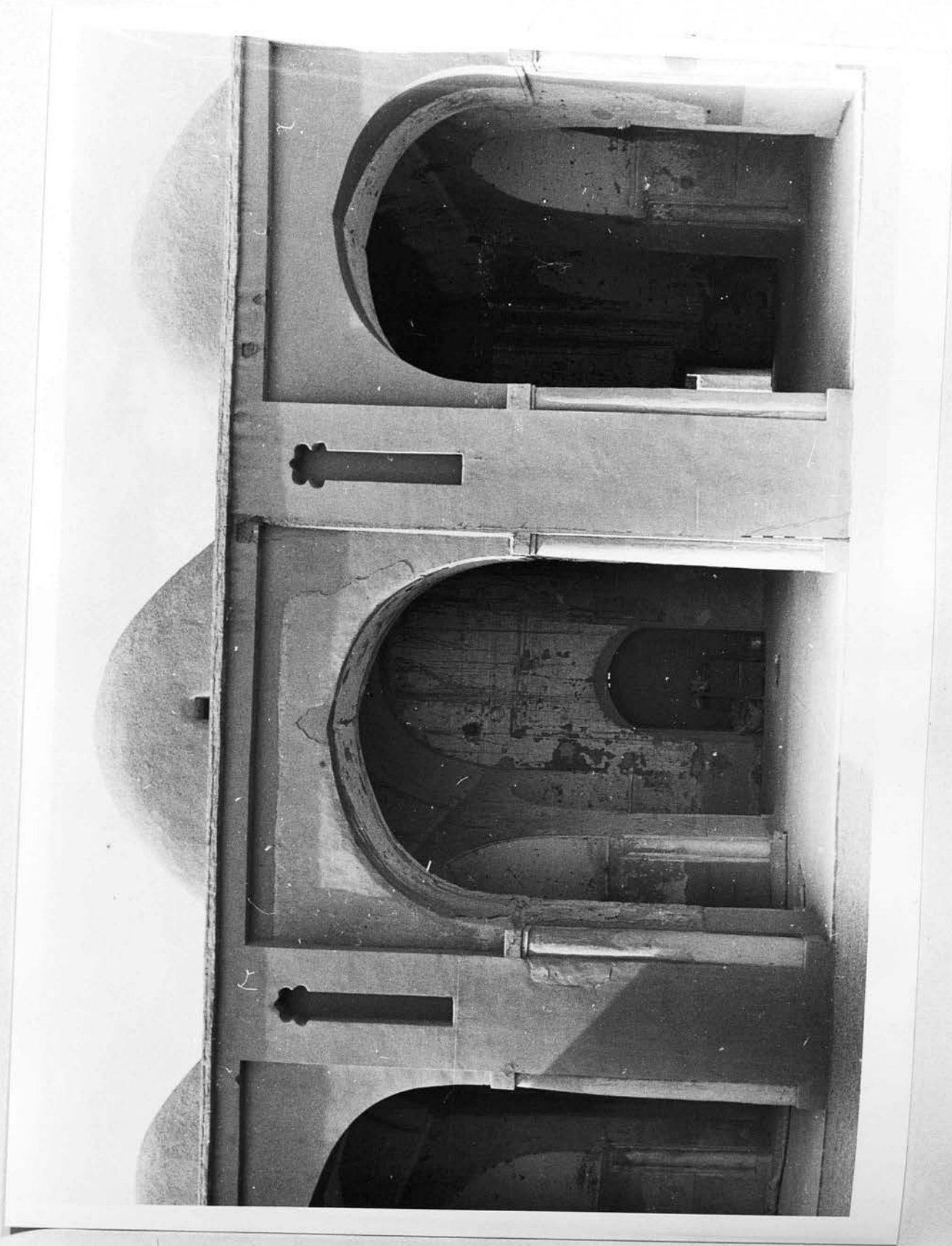
97-Fahraj, Iran; the jāmē mosque-North acade, eastern entrance chamber .



98-Fāhraj, Iran; the jāme' mosque-A sasanian type squinch at the western entrance chamber .



99- Fahraj, Iran; the jāmé mosque—a broken squinch at the western entrance chamber .



100-Fahraj, Iran; the jāme' mosque-Southern arcade; central aisle ,
showing the mihrab .



101- Fahraj, Iran; the jâme' mosque-Southern arcade: piers decorated with four engaged columns in the corners .



102-Fahraj, Iran; the jāme' mosque-Southern and eastern arcade .



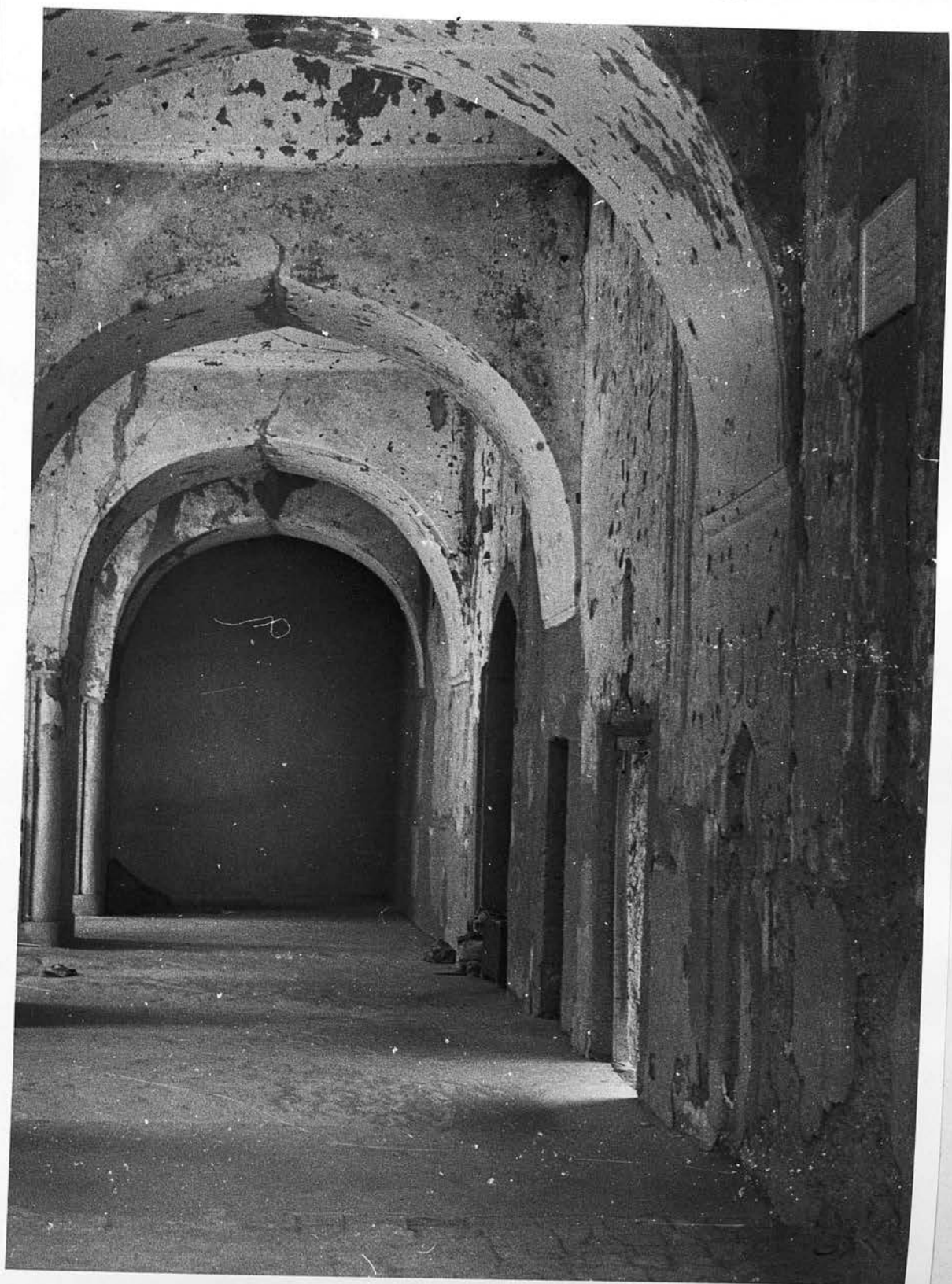
103-Fahraj, Iran; the jāmé mosque-Southern arcade looking to the east •



104-Fahraj, Iran; the jame' mosque-Stucco decoration in the form of a door .



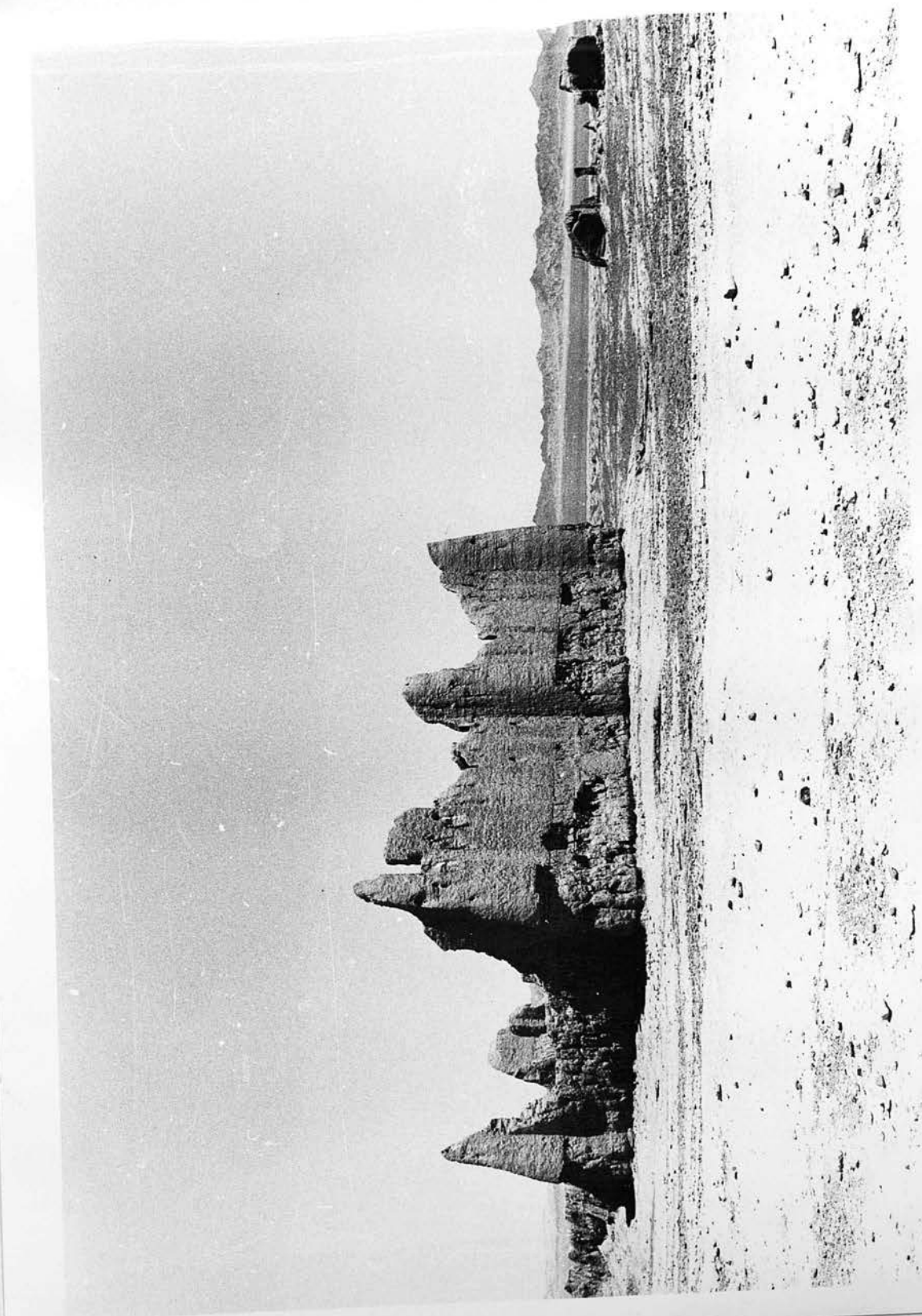
105-Fahraj, Iran; the jāme' mosque-Central aisle; looking to the north .



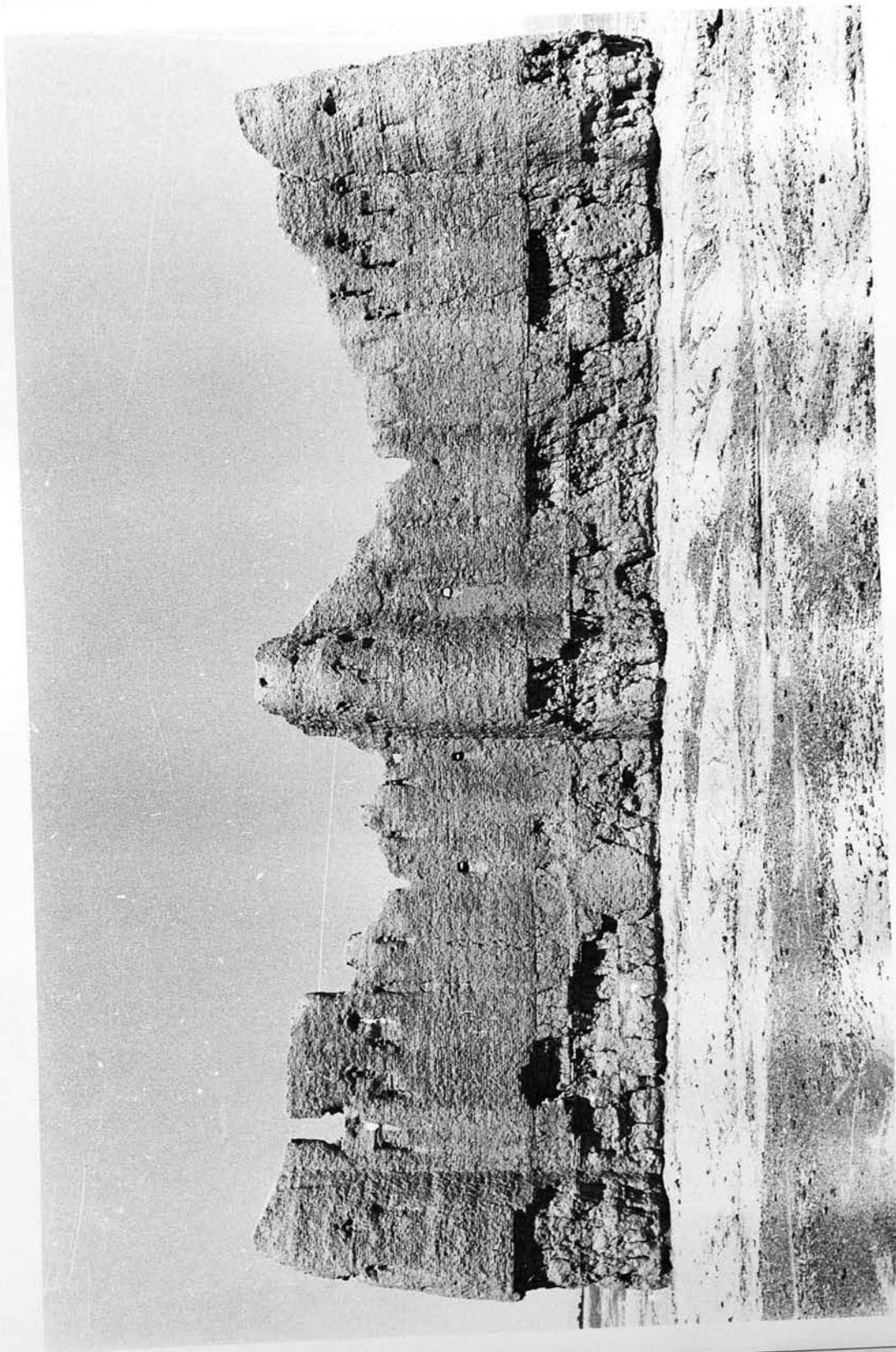
106-Fahraj, Iran; the jâme' mosque-Qeble wall .



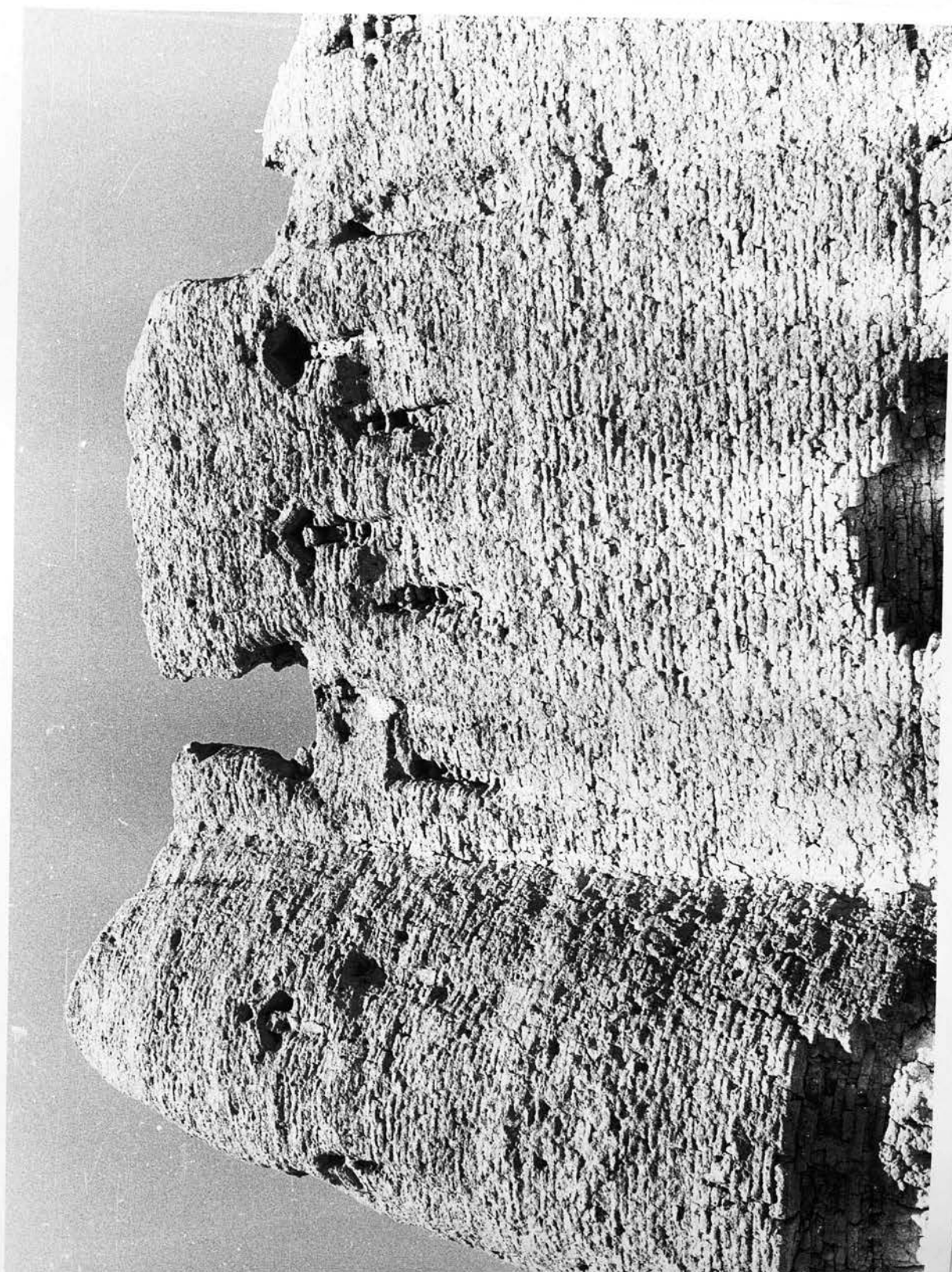
107-Fahraj, Iran; the jāme' mosque-The ruins of the shebastān .



108-Dārzin, Iran-Fort One, view from the south west .



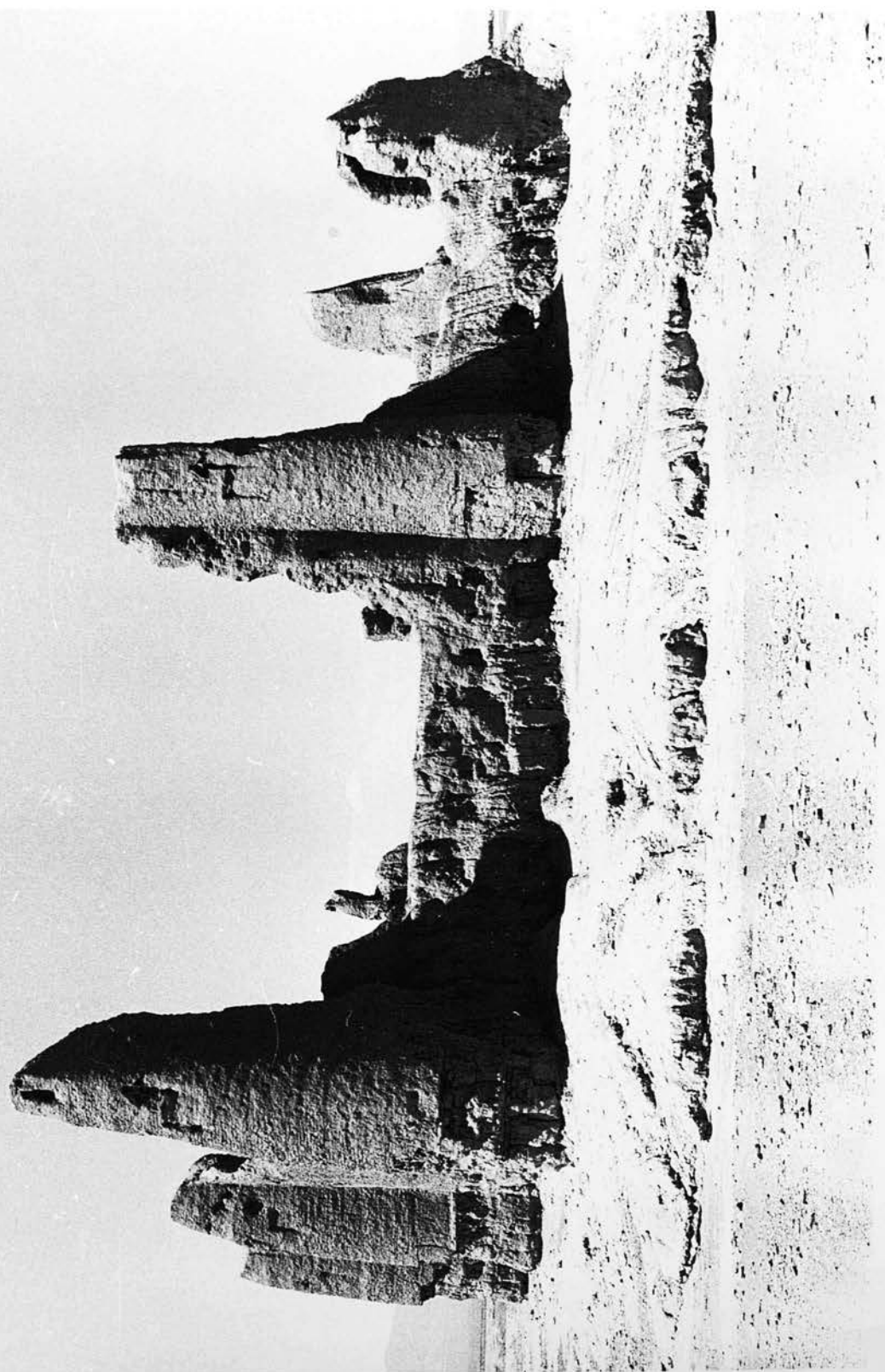
109-Dārzin, Iran-Fort One, south wall .



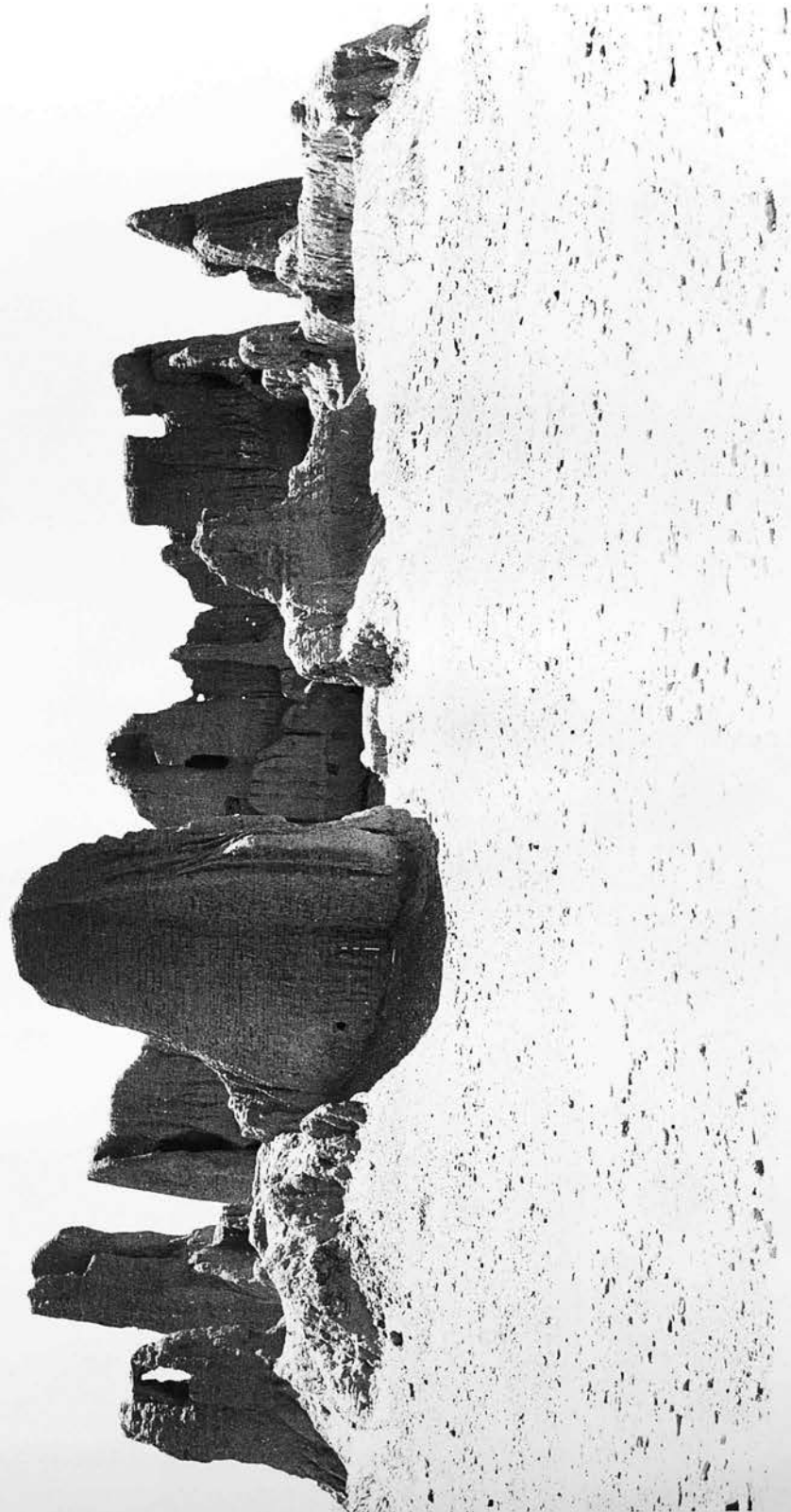
110-Dārzin, Iran-Fort One, south west corner , detail .



111-Dārzin, Iran-Fort One, western view .



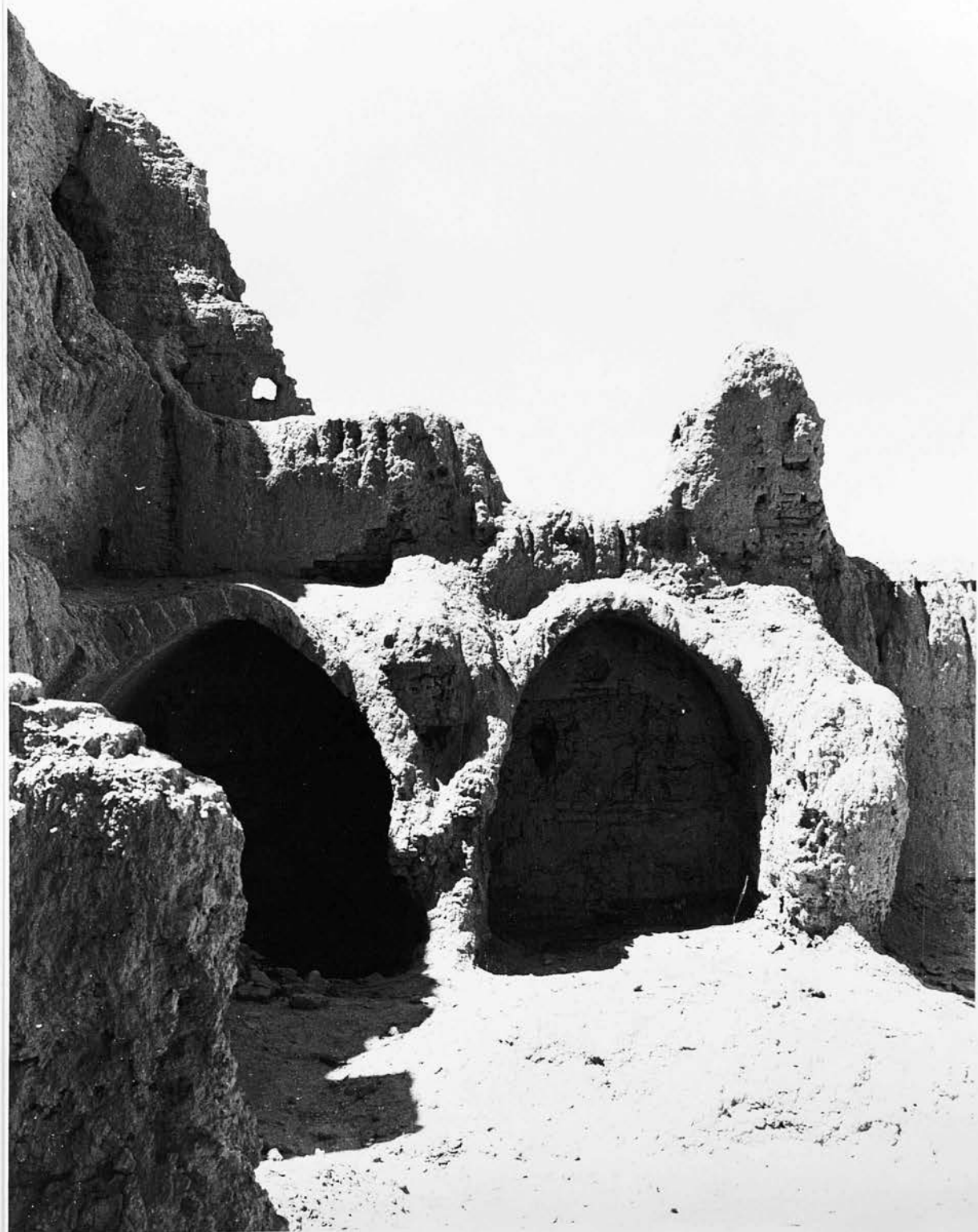
112- Dārzin, Iran-Fort One. Eastern view .



113-Dárzin, Iran-Fort One. Northern view .



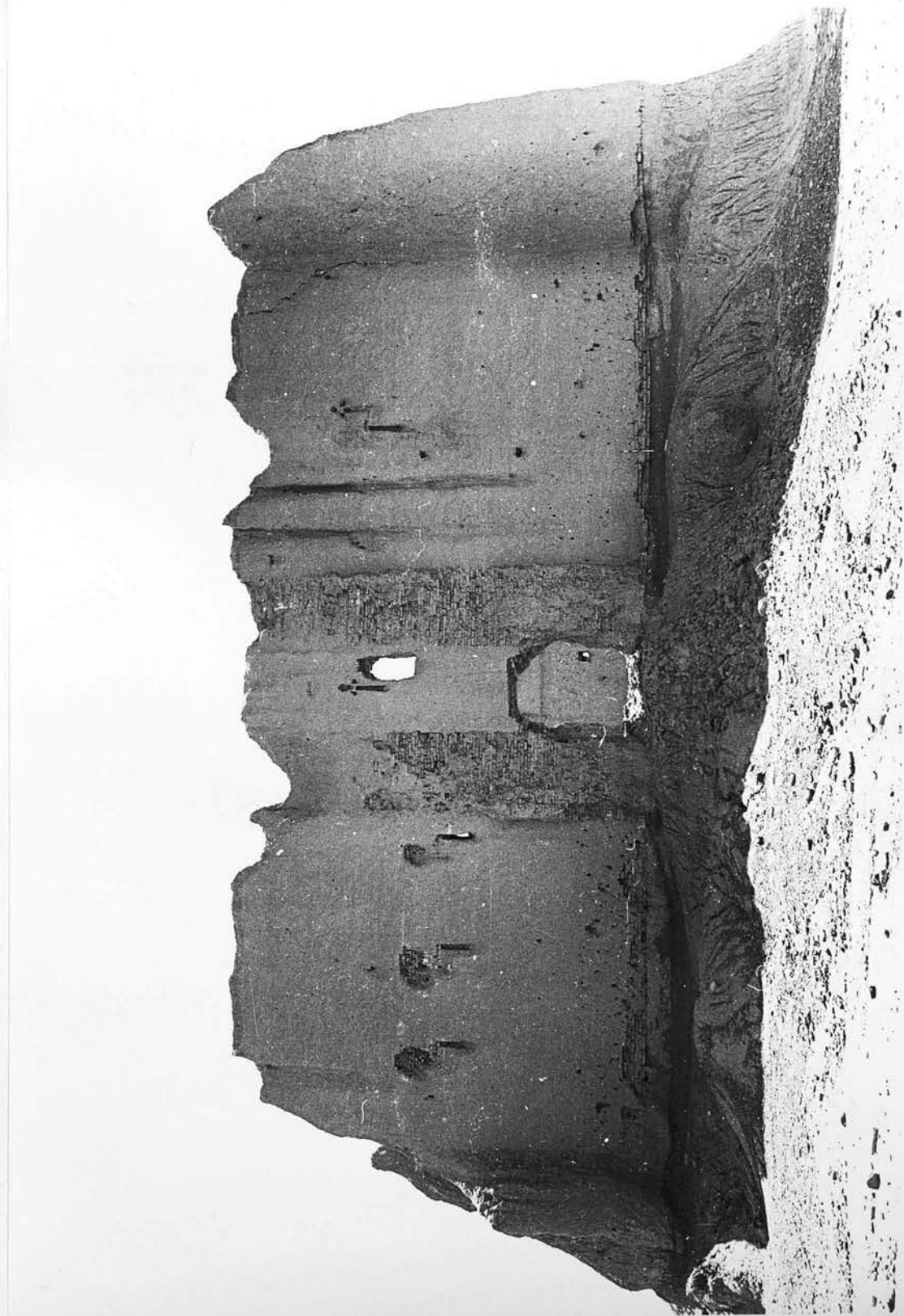
114-Dārzin, Iran-Fort One ,interior view of the west side .



115-Dārzin, Iran-Fort One, ruins of the western chambers .



116-Dārzin, Iran-Fort One, interior view of the eastern wall .



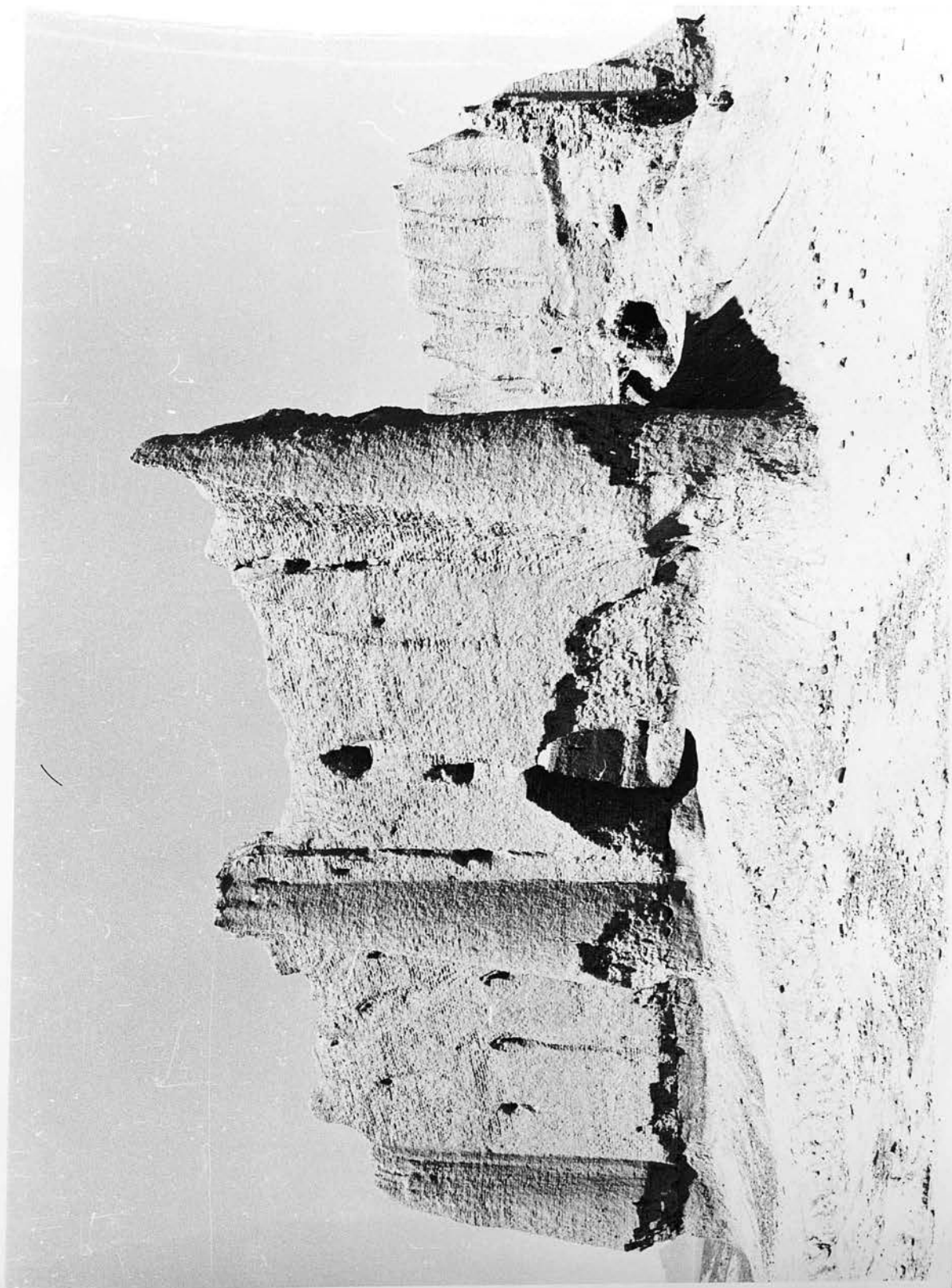
117-Dārzin, Iran-Fort Two, northern view .



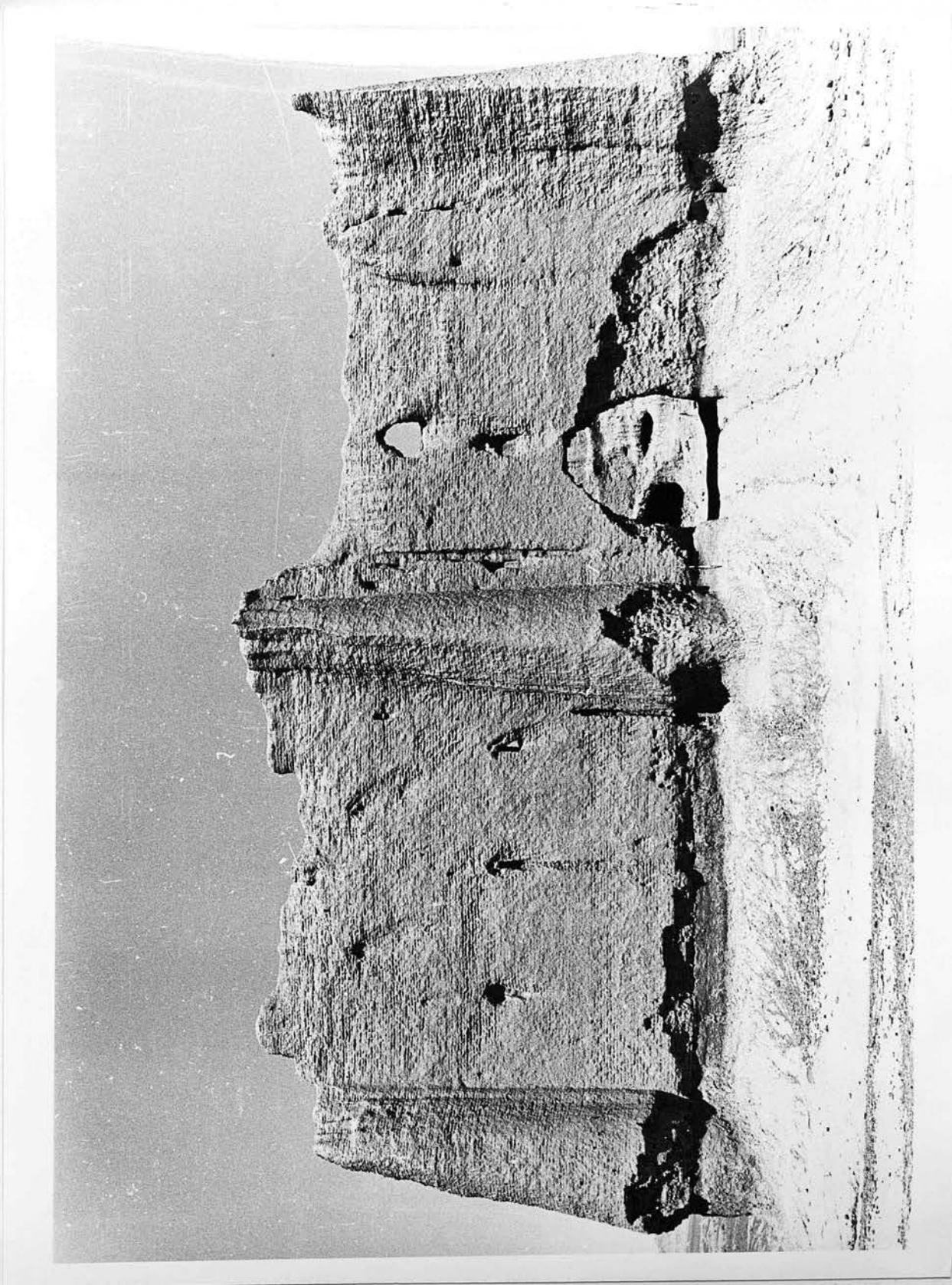
118-Därzin, Iran-Fort Two, view from the west .



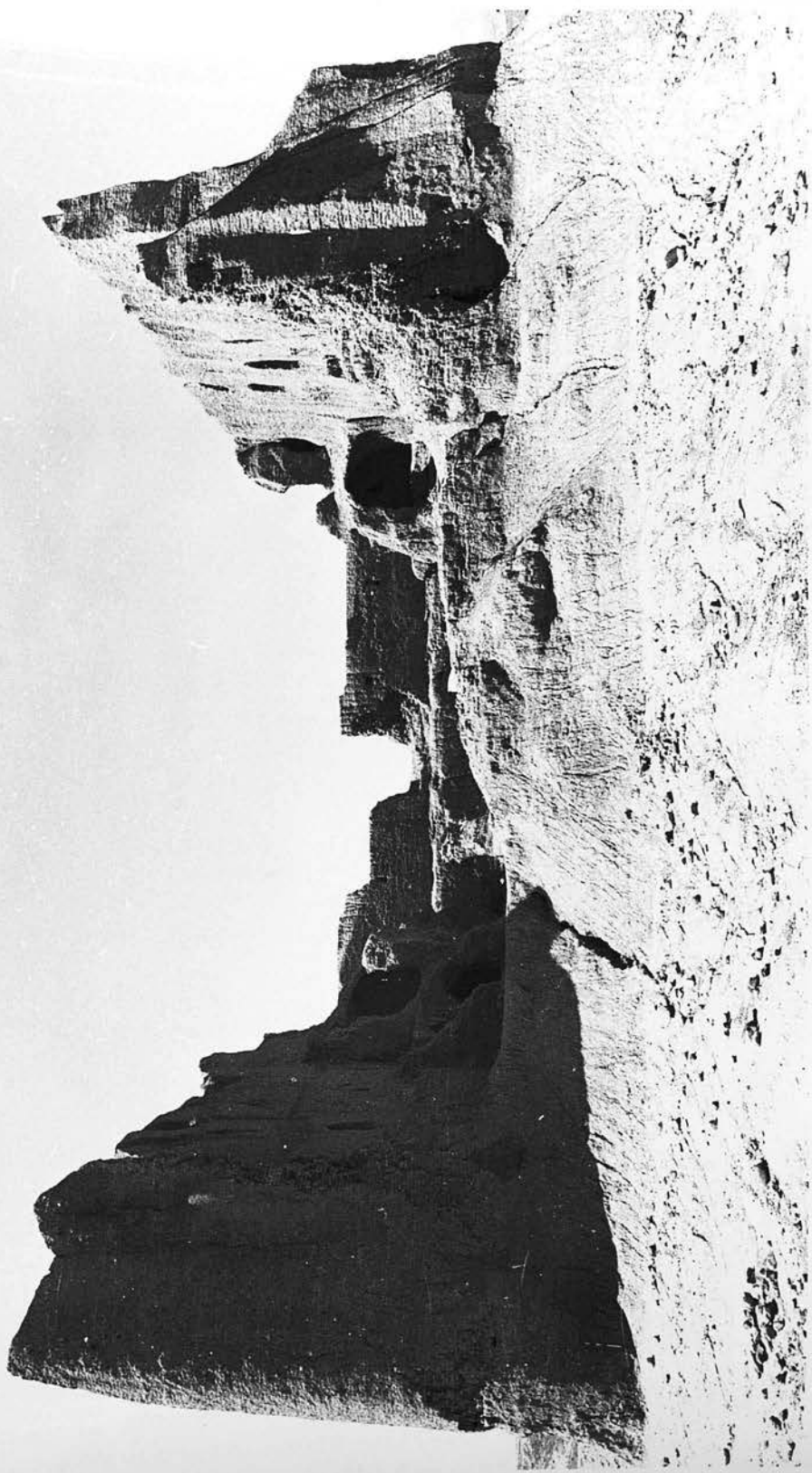
119- Dārzin, Iran-Fort Two, detail of the western wall .



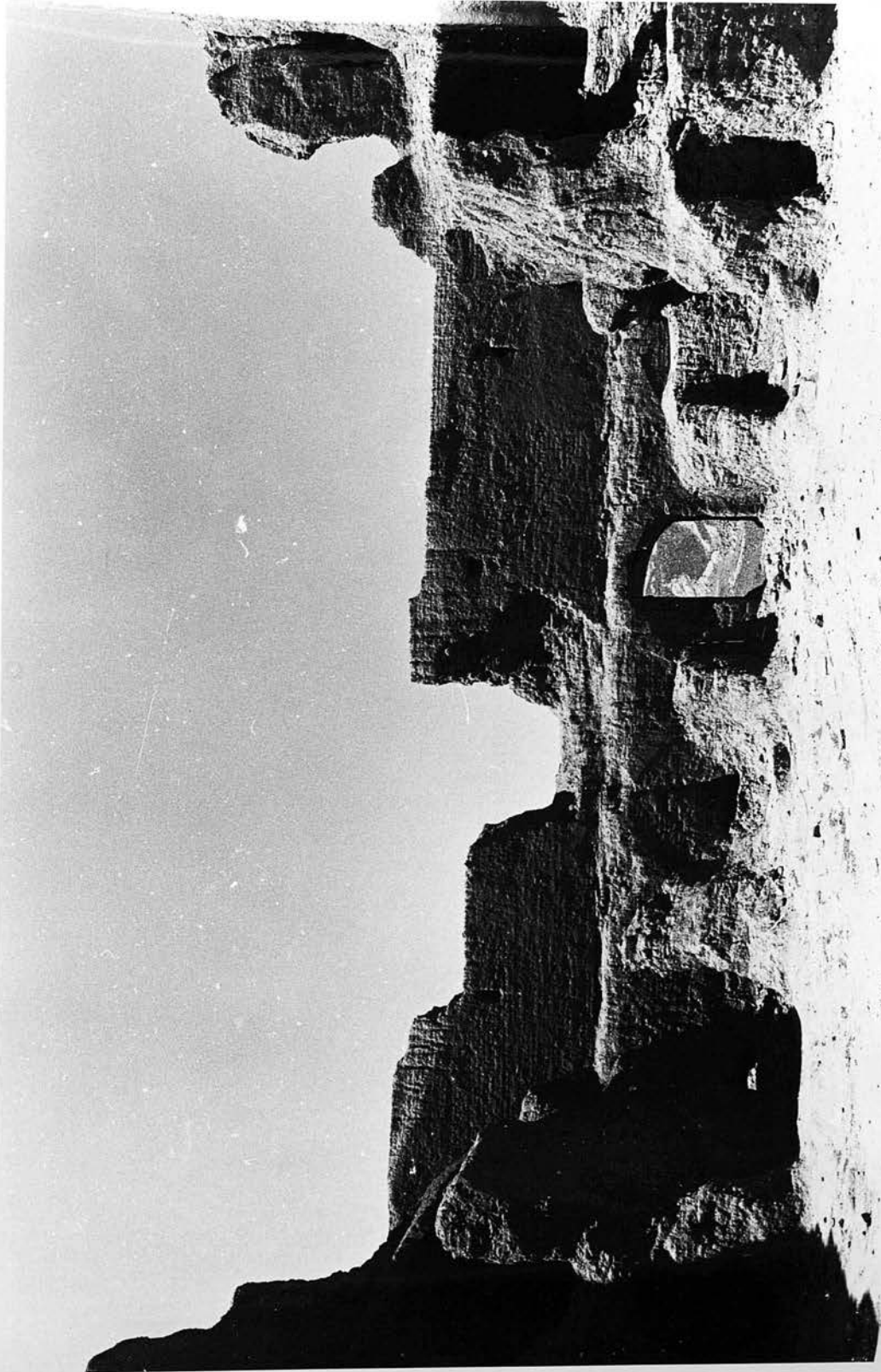
120- Dārzin, Iran-Fort Two, view from the east .



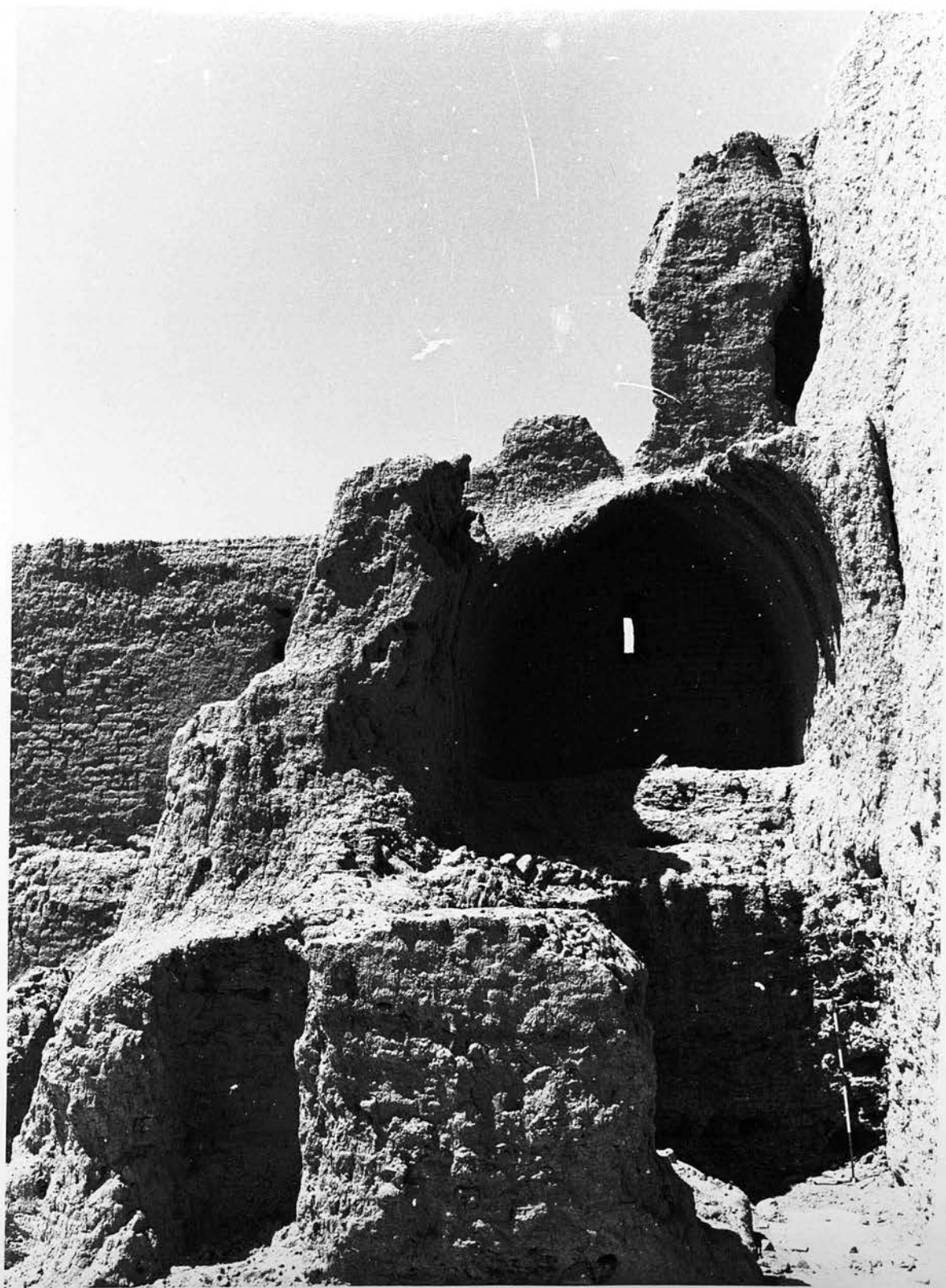
121-Darzin, Iran-Fort Two, southern view .



122-Dārzin, Iran-Fort Two, eastern view .



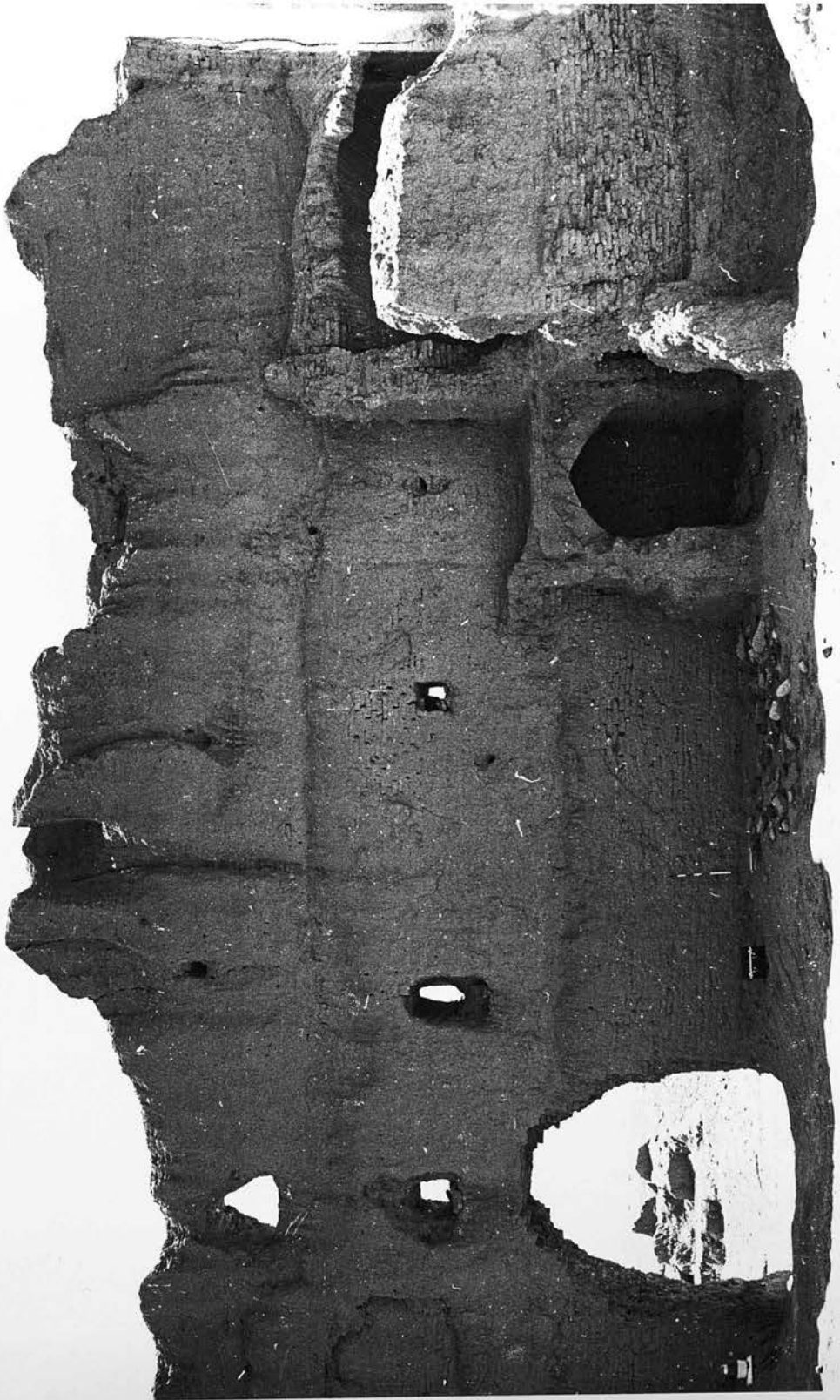
123-Dârzin, Iran-Fort Two, remains of the chambers at the west side .



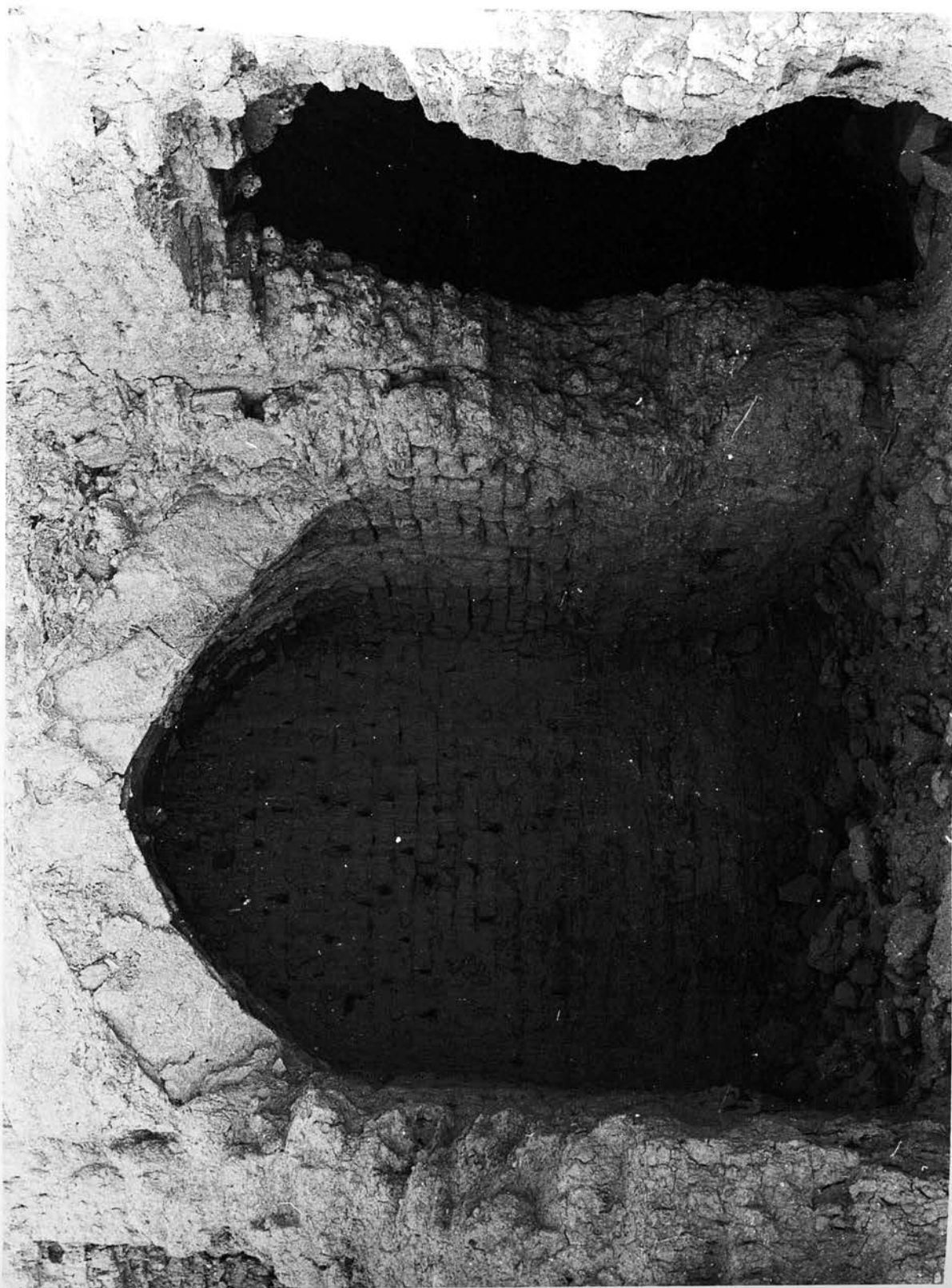
124-Dārzin, Iran-Fort Two, north east corner .



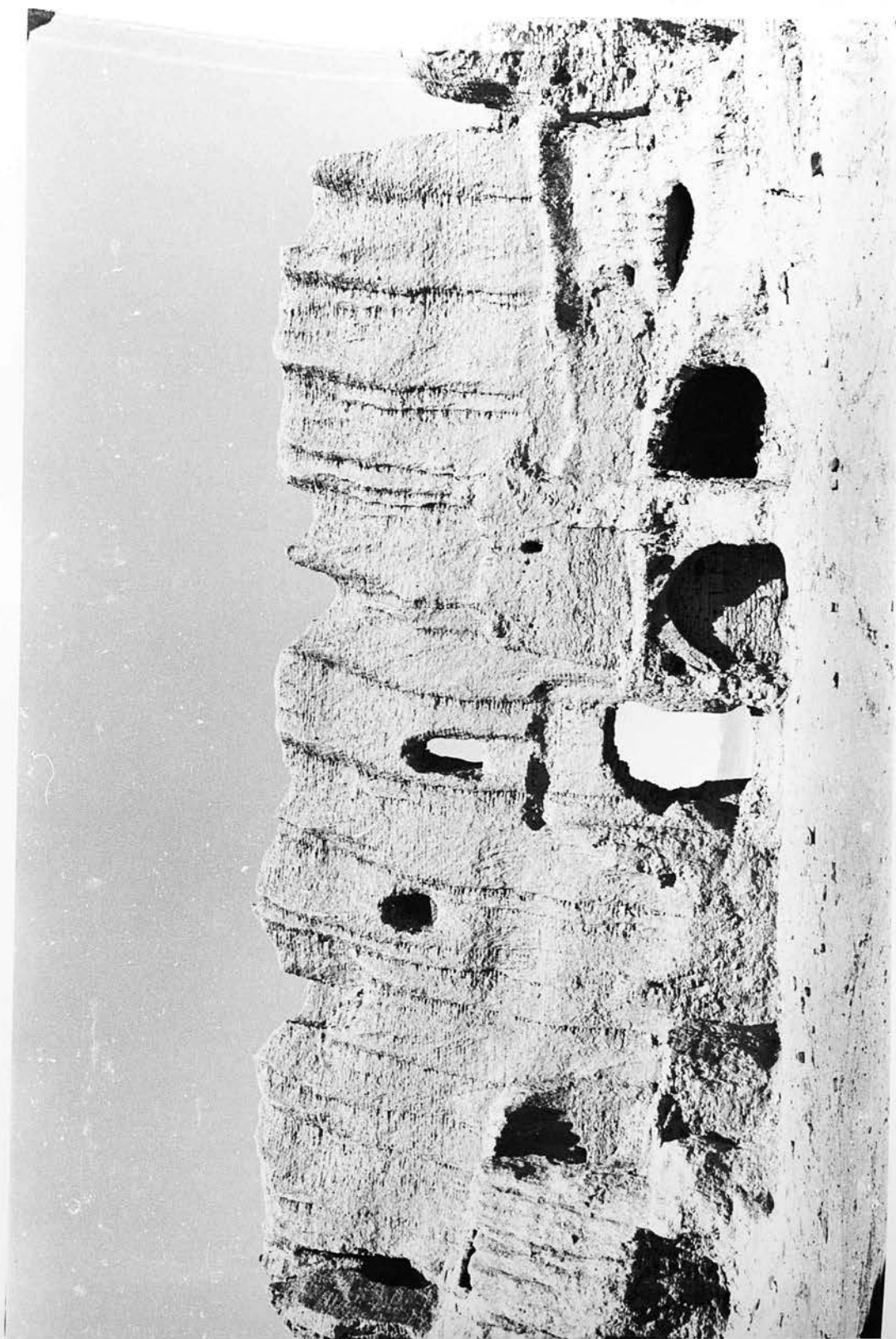
125-Dārzin, Iran-Fort Two, south east corner .



126-Dārzin, Iran-Fort Two, interior view of the south wall .



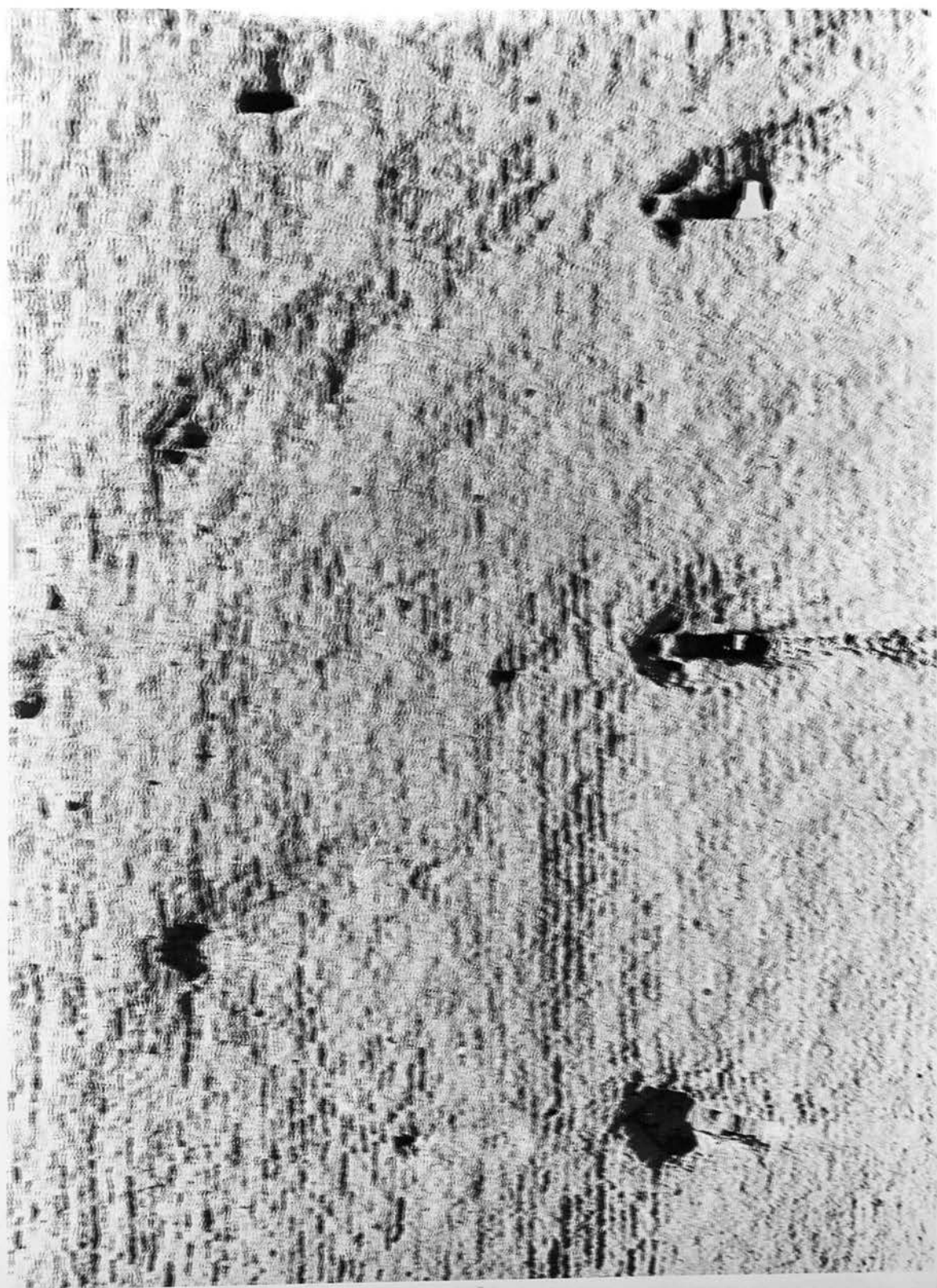
127-Dārzin, Iran-Fort Two, chamber with pointed arch at the south side .



128-Dārzin, Iran-Fort Two, interior view of the north side .



120-Dârzin, Iran-Fort two, north-west tower .



130-Darzin, Iran-Fort two, arrow-slits at the south wall .



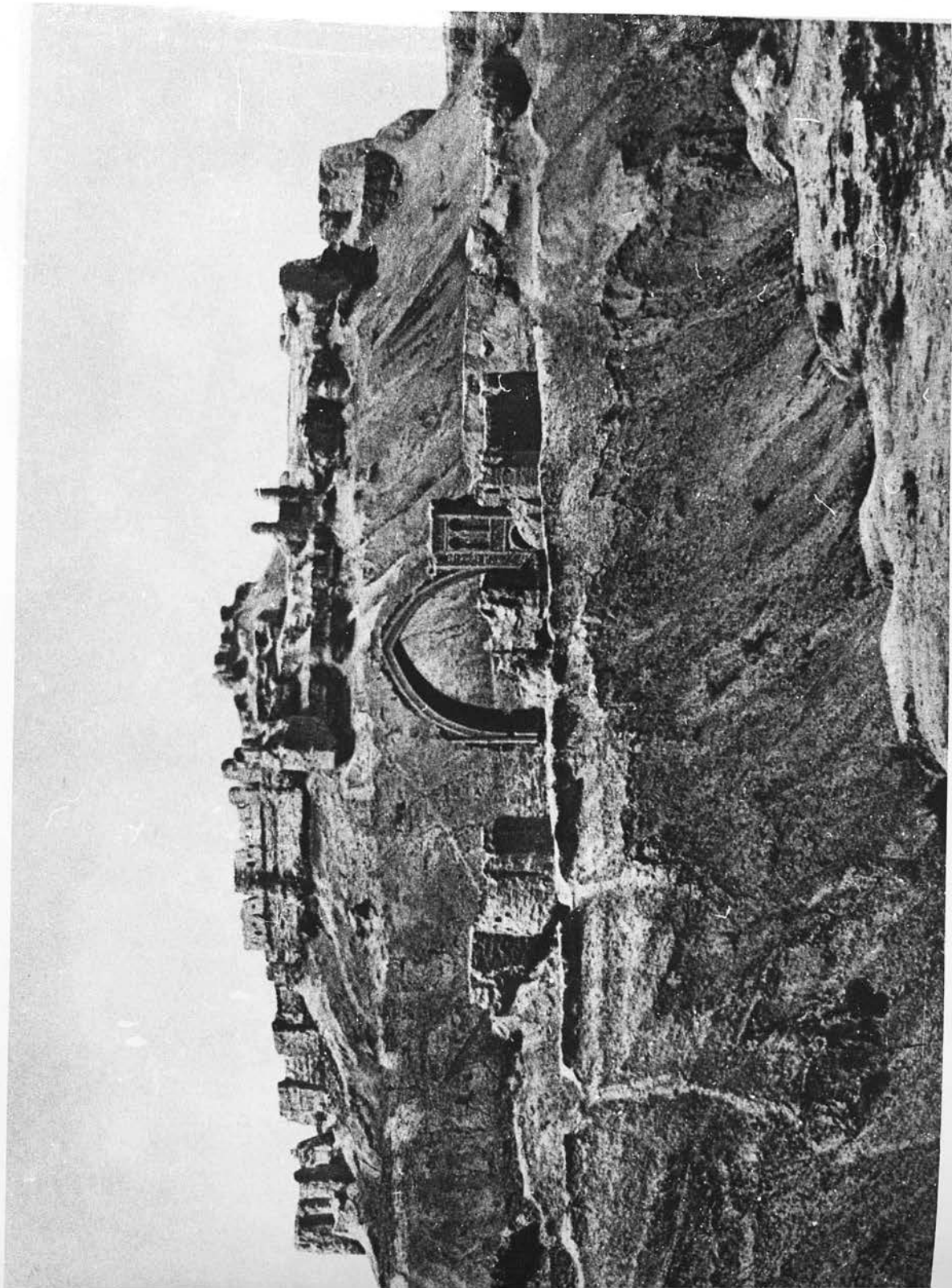
131- Dārzin, Iran-Detail of an arrow slit of Fort Two .



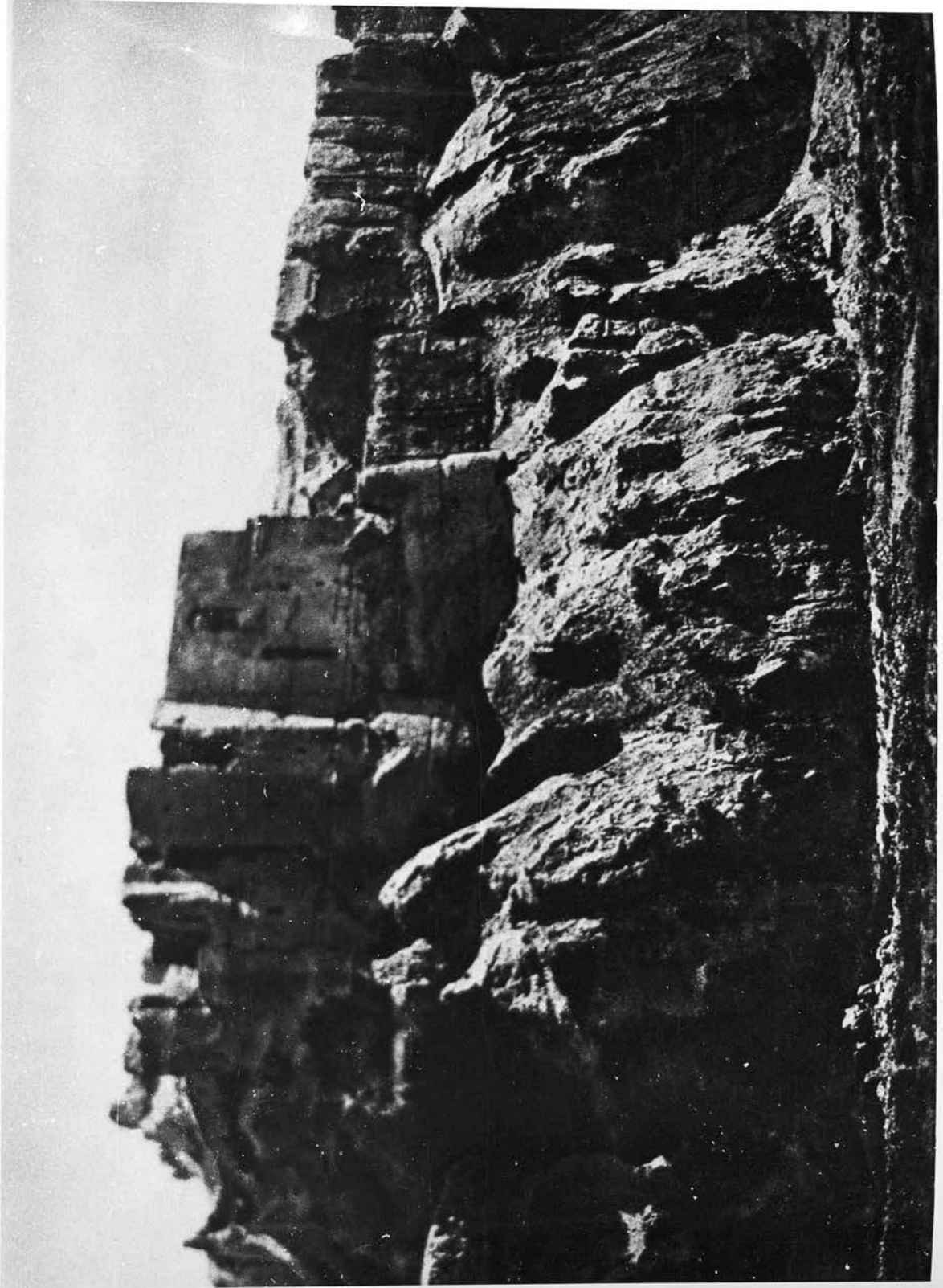
132- Dārzin, Iran-The mosque; view to the west .



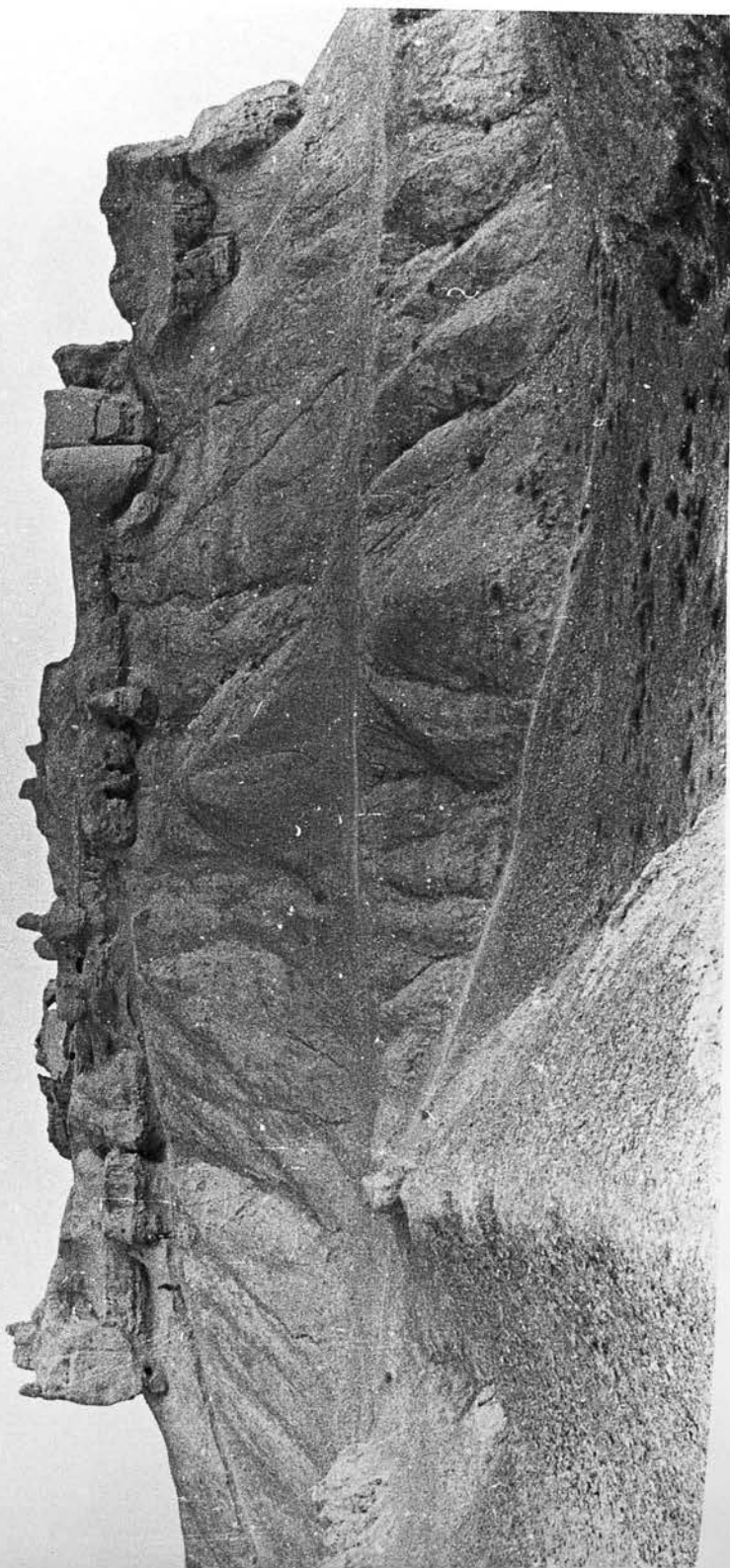
133-Darzin, Iran-The mosque (?) entrance. Fort One can be seen in the back ground .



134- Bost ,Afghanistan;copy of Niedermayer's photograph showing the arch & citadel .



135-Bost, Afghanistan; copy of Niedermayer's showing the north western corner (?) of the citadel .



136-Bost, Afghanistan; citadel; north view .



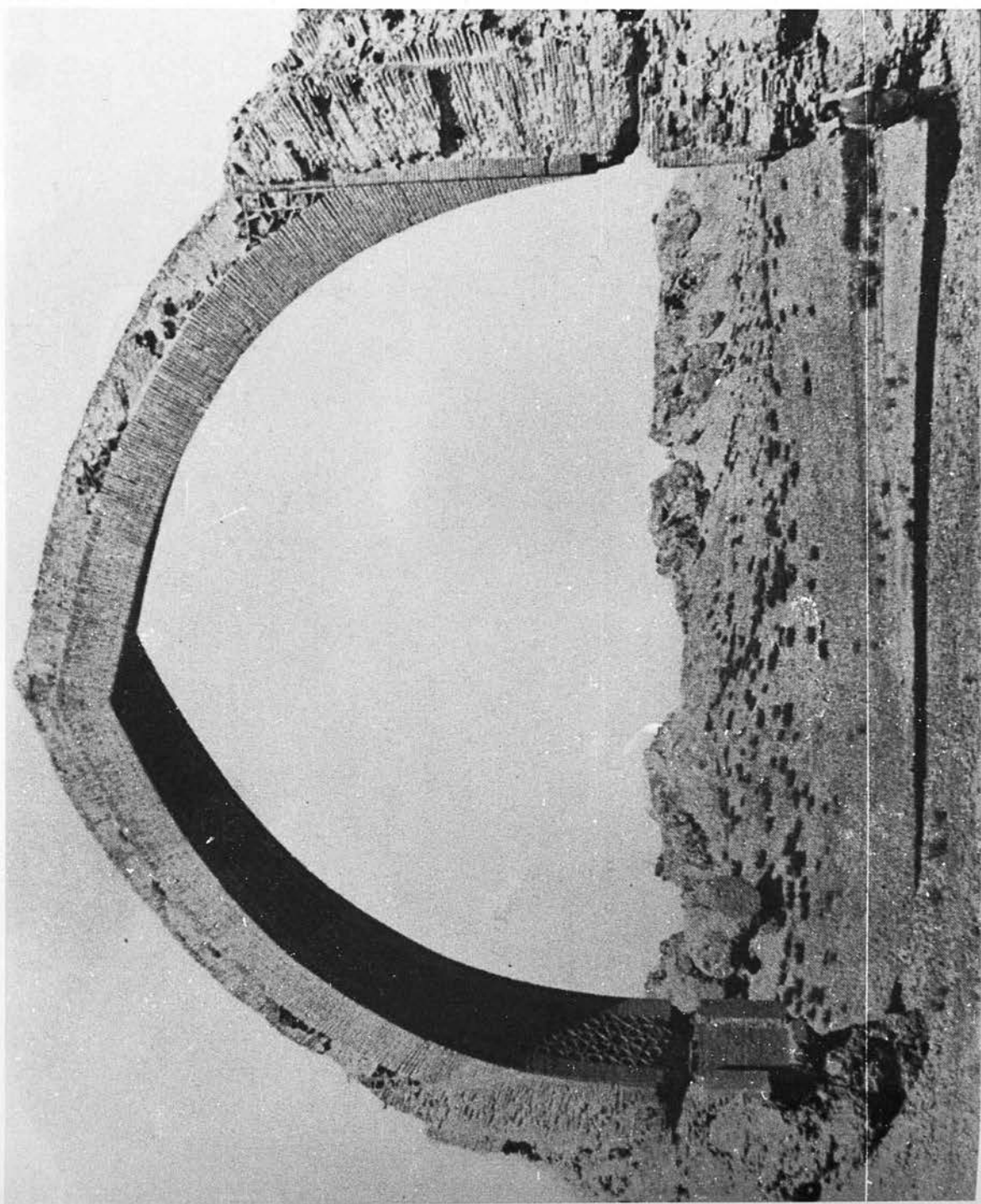
137-Bost, Afghanistan; citadel; eastern view .



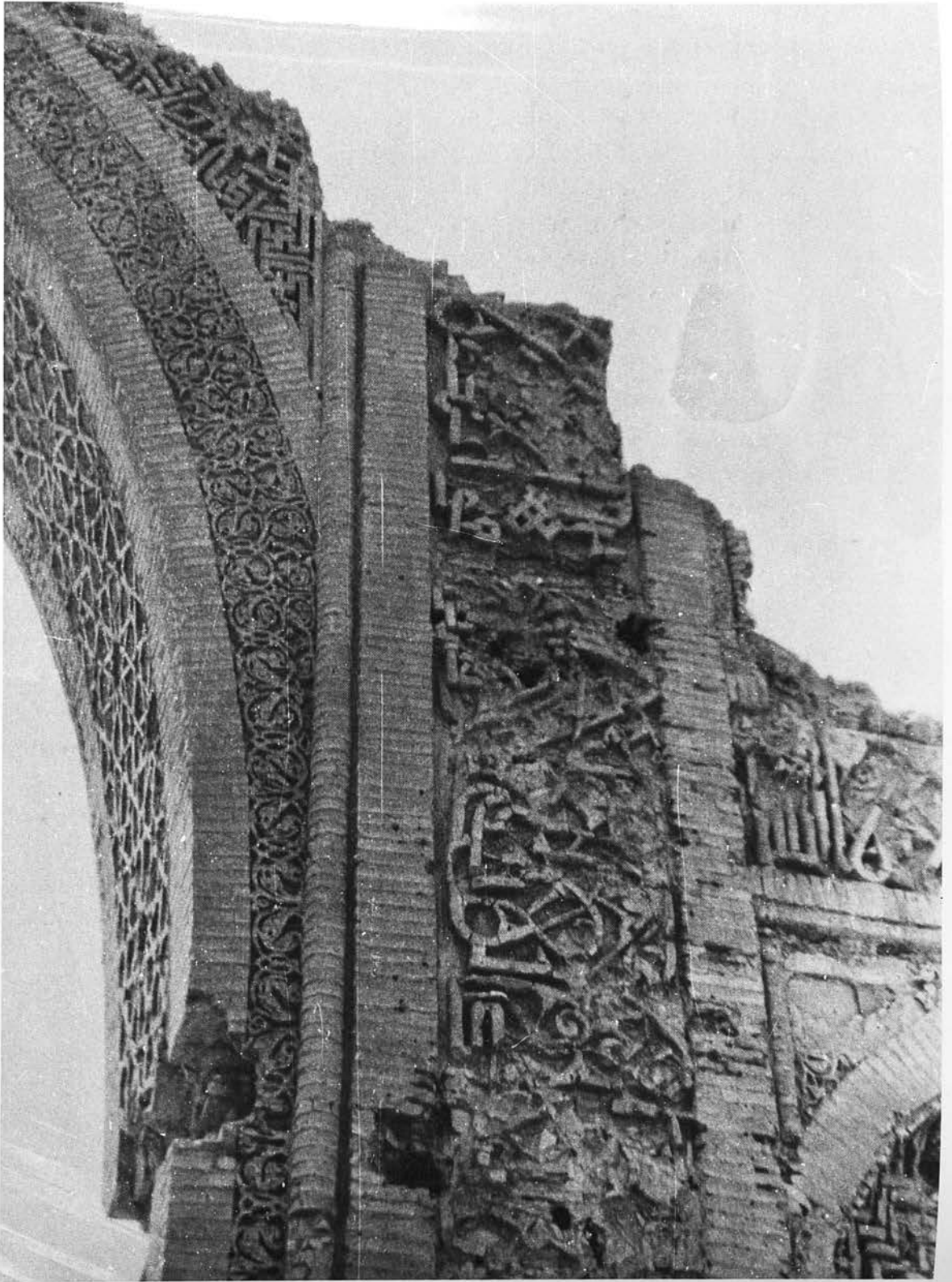
138-Bost, Afghanistan; The Fort-View from the citadel looking toward the north .



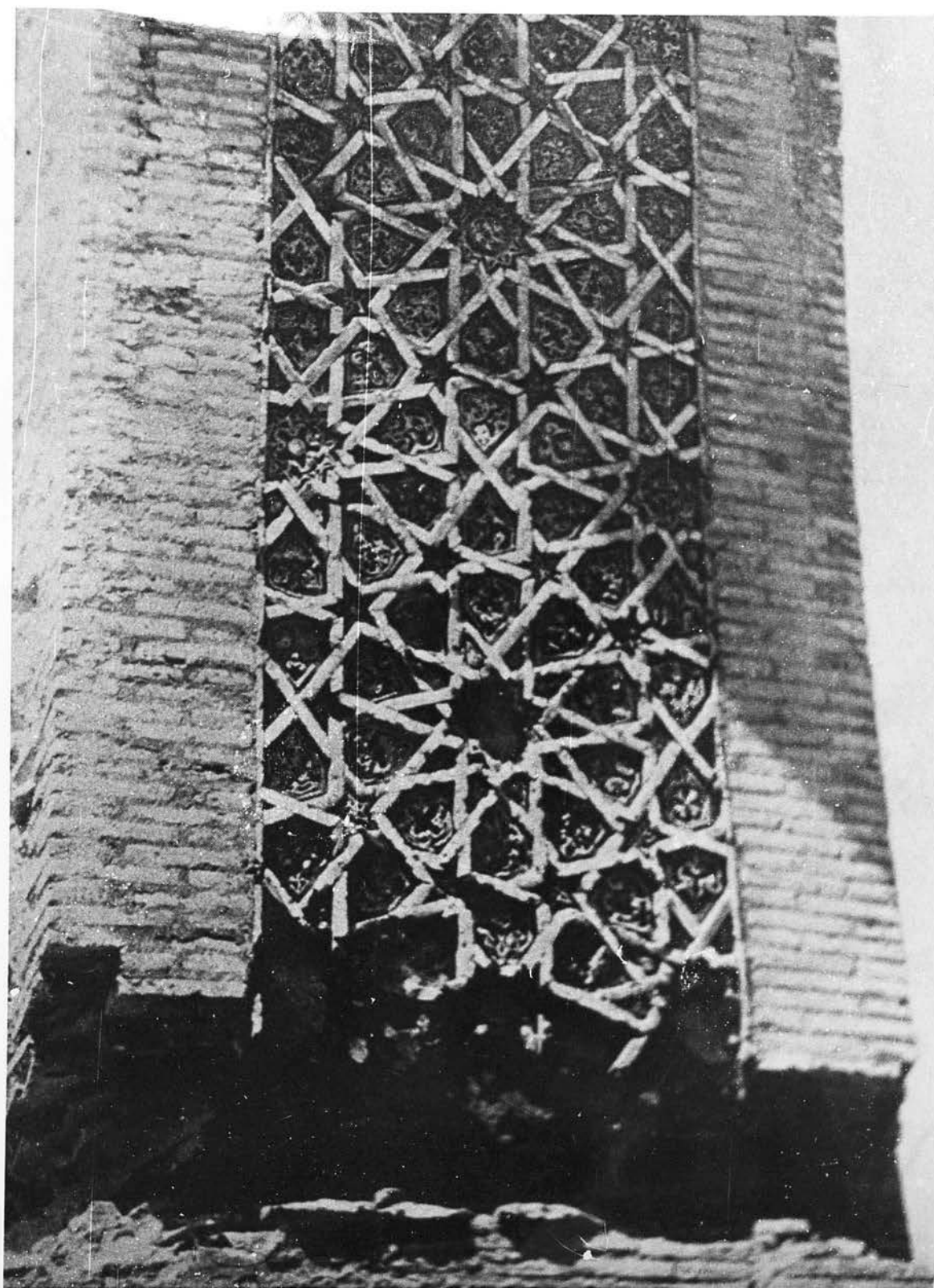
139-Bost, Afghanistan; The Fort-View from the citadel looking toward the east .



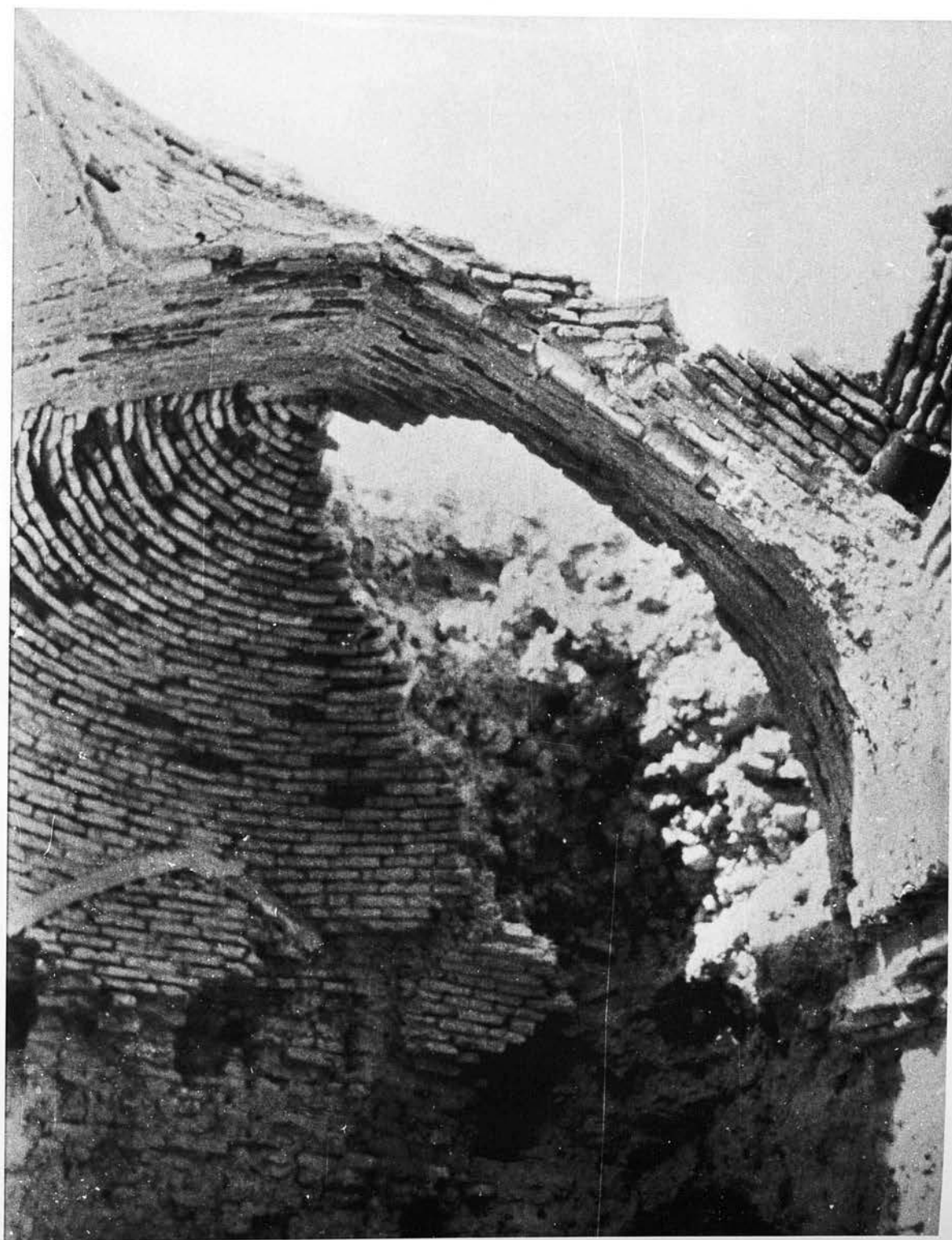
140-Bost, Afghanistan; Niedermayer's photograph of The Arch .



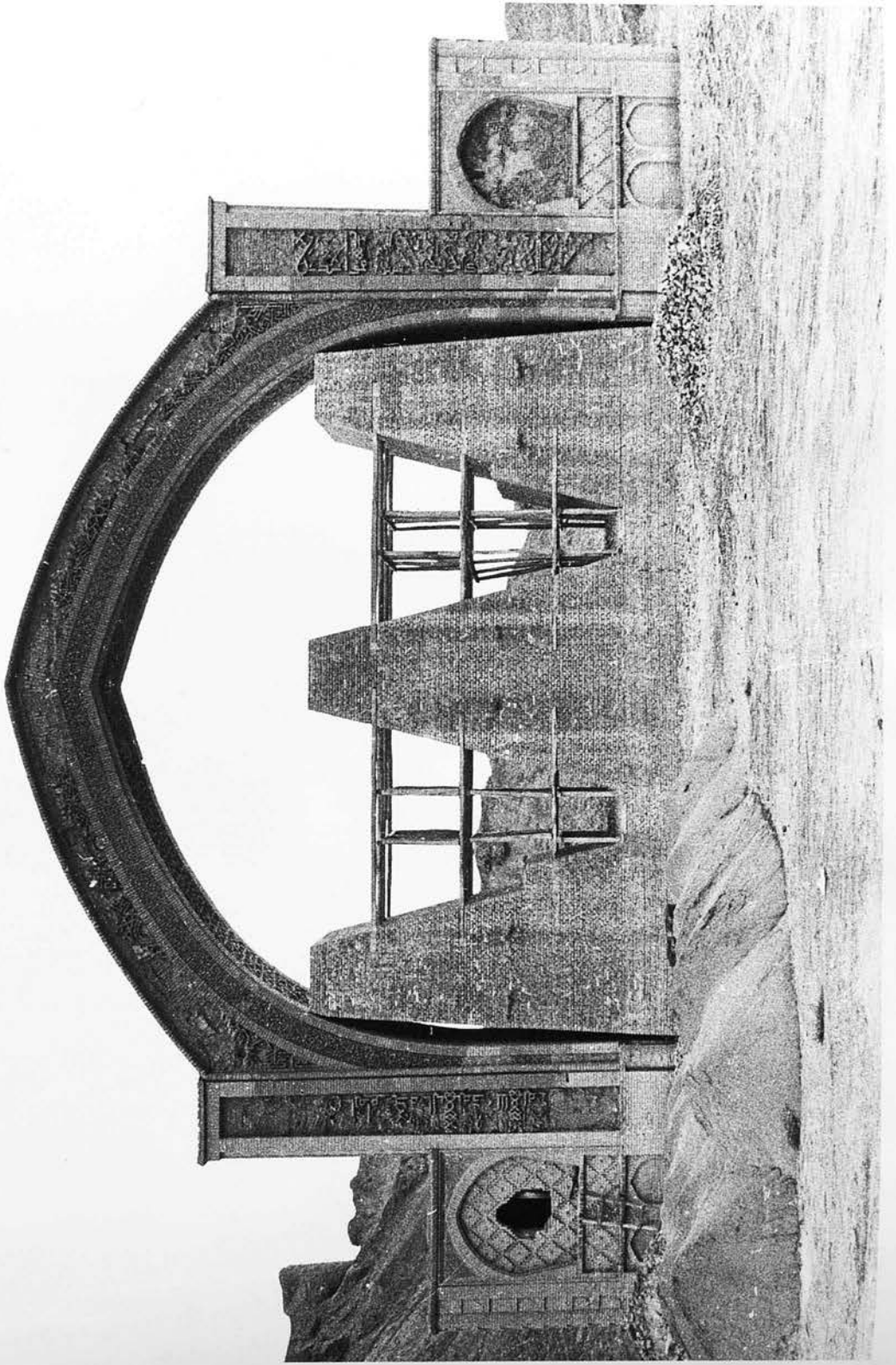
141- Bost Afghanistan; The Arch , 1935 photograph showing details of the facade .



142-Post, Afghanistan; The Arch, 1935 photograph showing the decorative patterns .



143-Bost, Afghanistan; The Arch, 1935 photograph showing the pendentive dome .



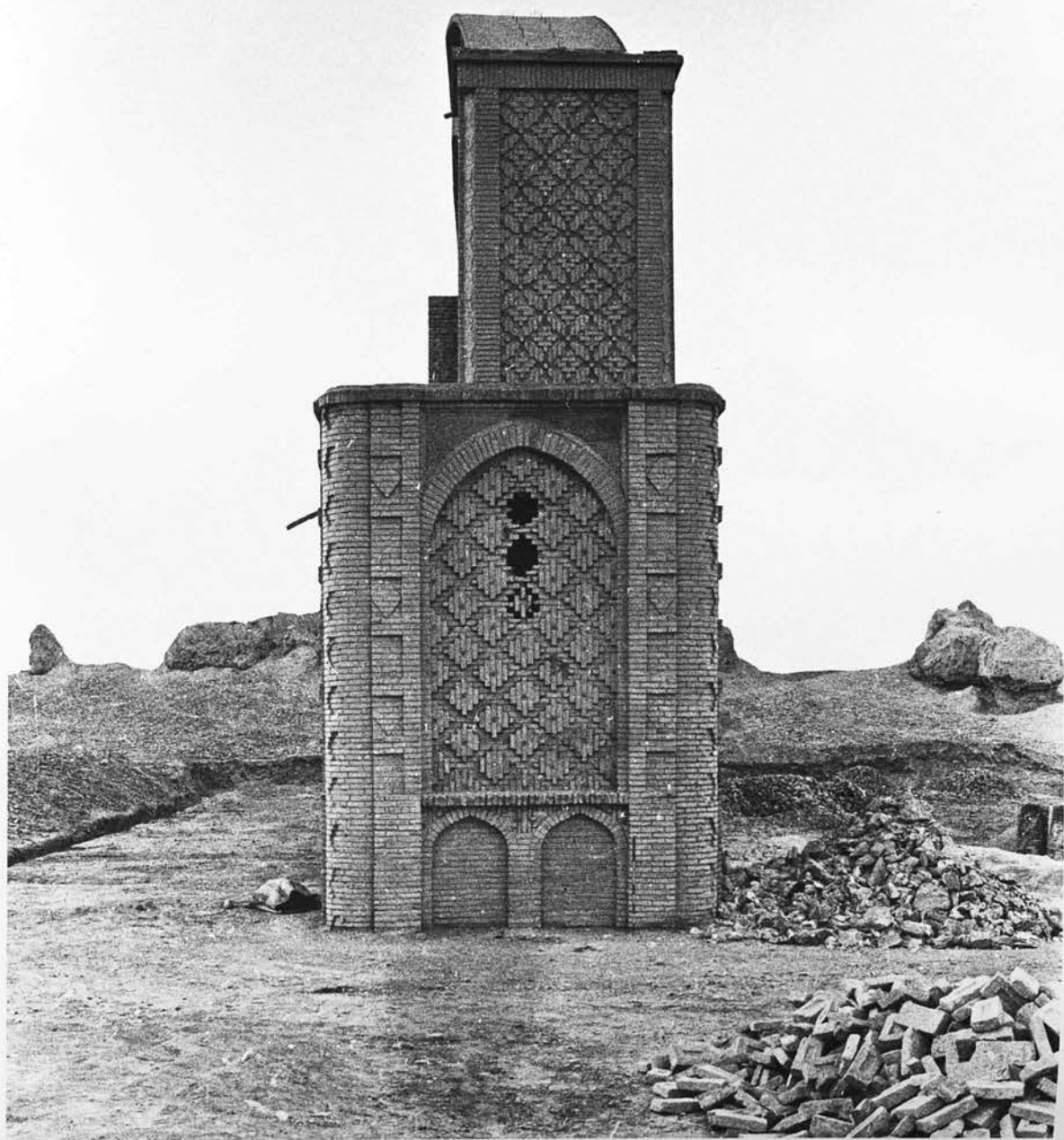
144-Bost, Afghanistan; The Arch, eastern view (Present condition) .



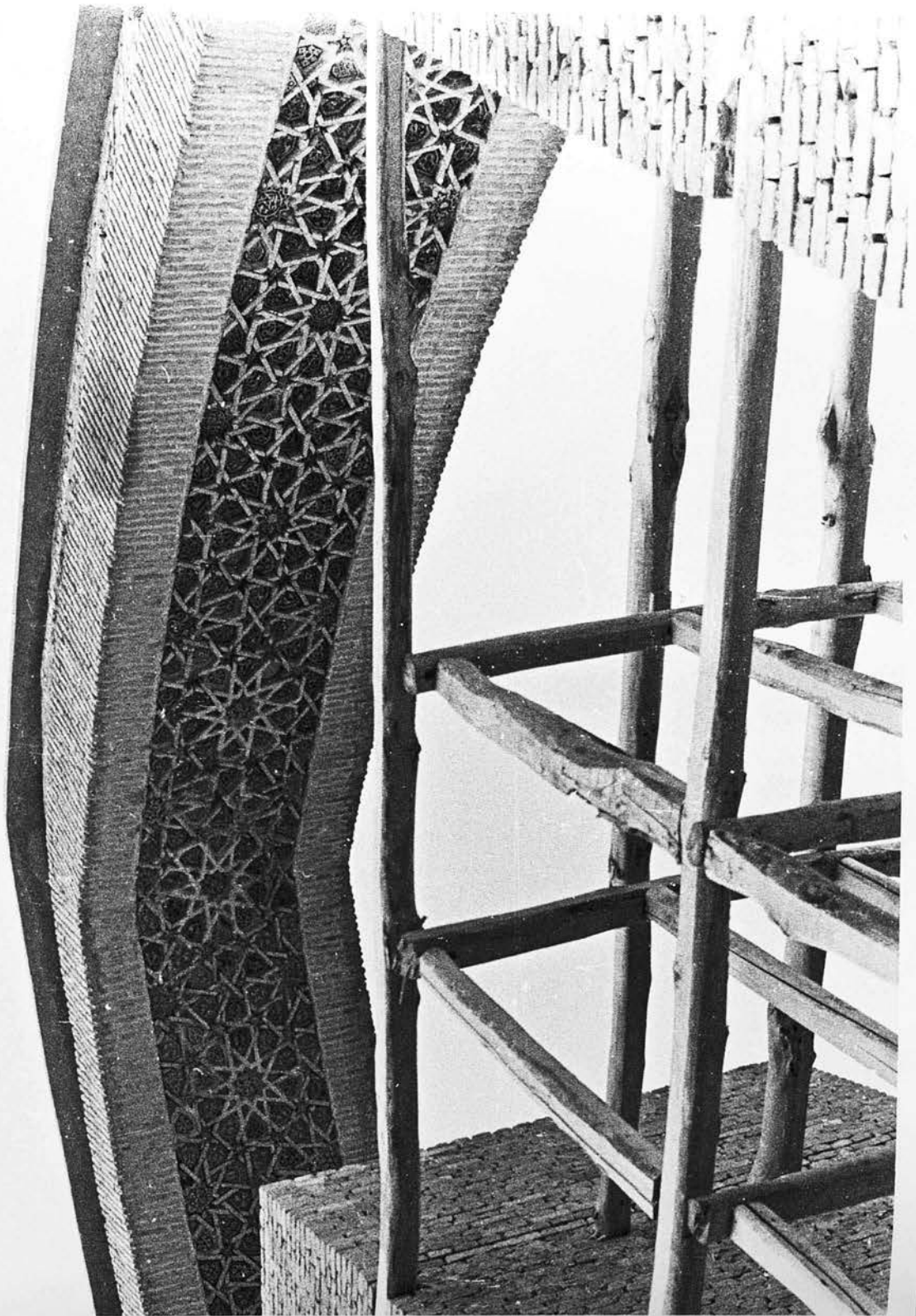
144a-Bost, Afghanistan; The Arch, eastern view (present condition), north wing .



144b-Bost, Afghanistan; The Arch, east view (present condition), south wing .



145-Bost, Afghanistan; The Arch, southern view .



46-Bost, Afghanistan; The Arch , decorative patterns .



147-Bost, Afghanistan; The Well, ground level: east view .



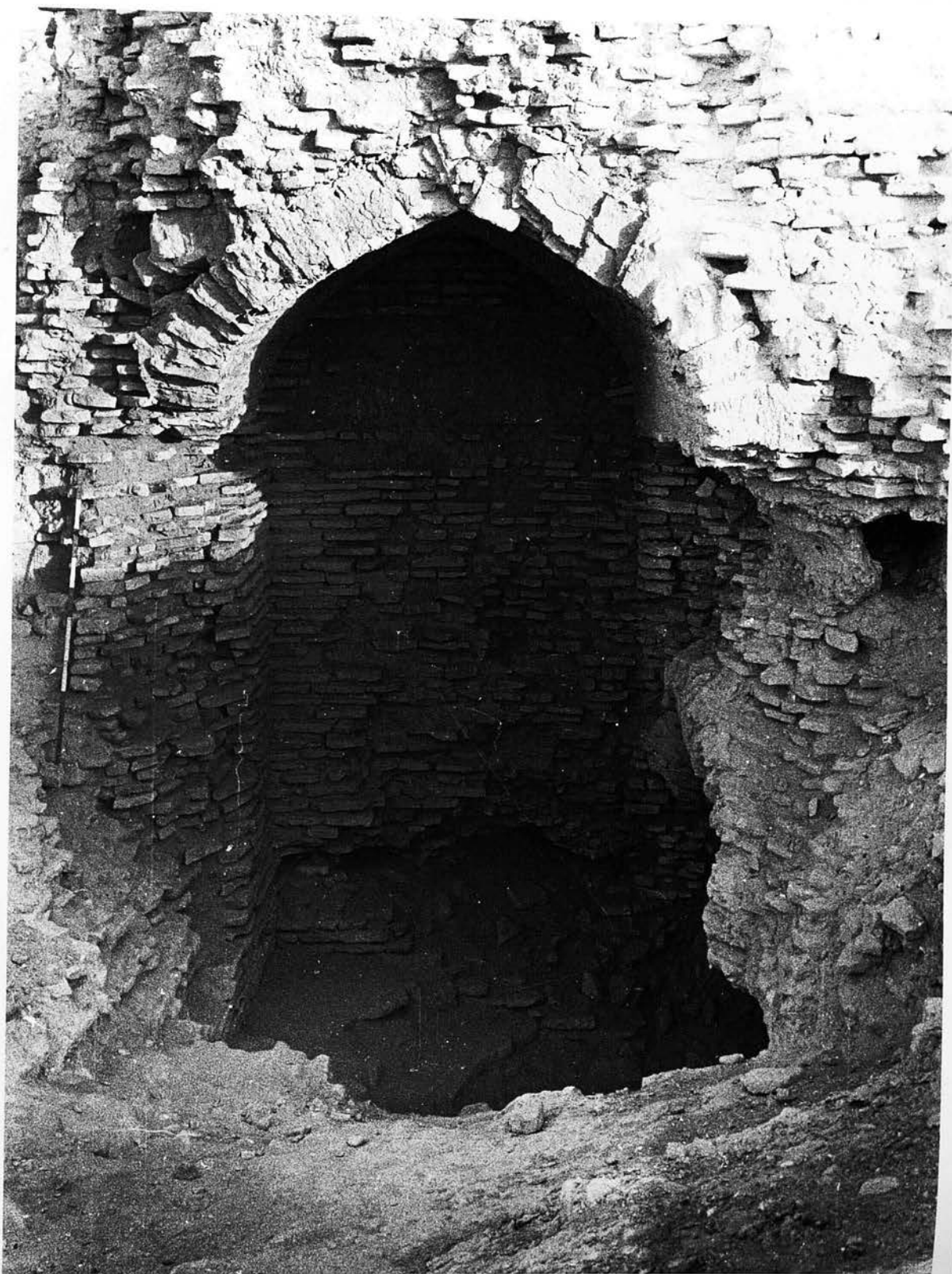
148-Bost, Afghanistan; The Well, ground level: south view .



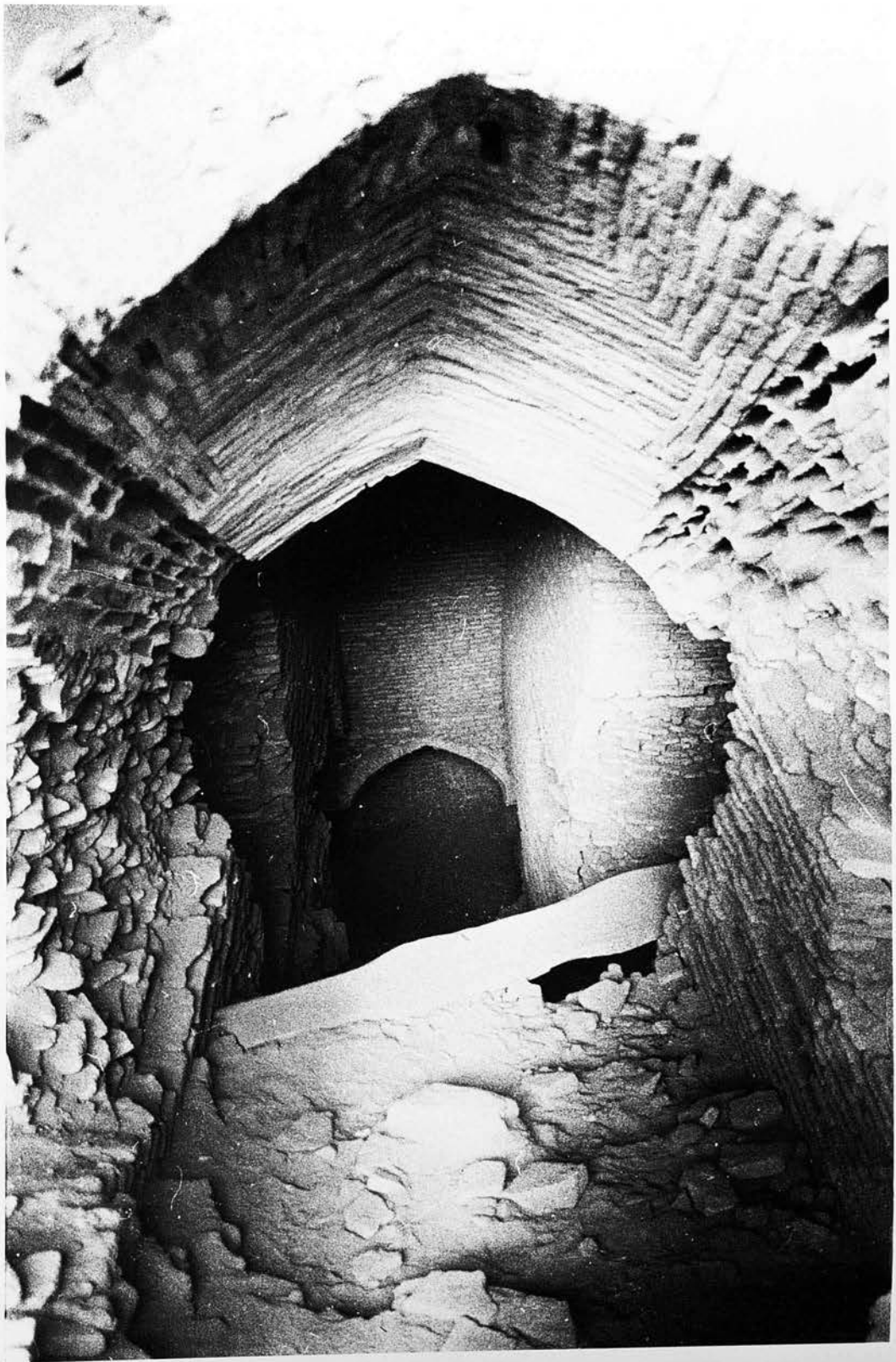
149-Bost, Afghanistan; The Well, ground level: north view .



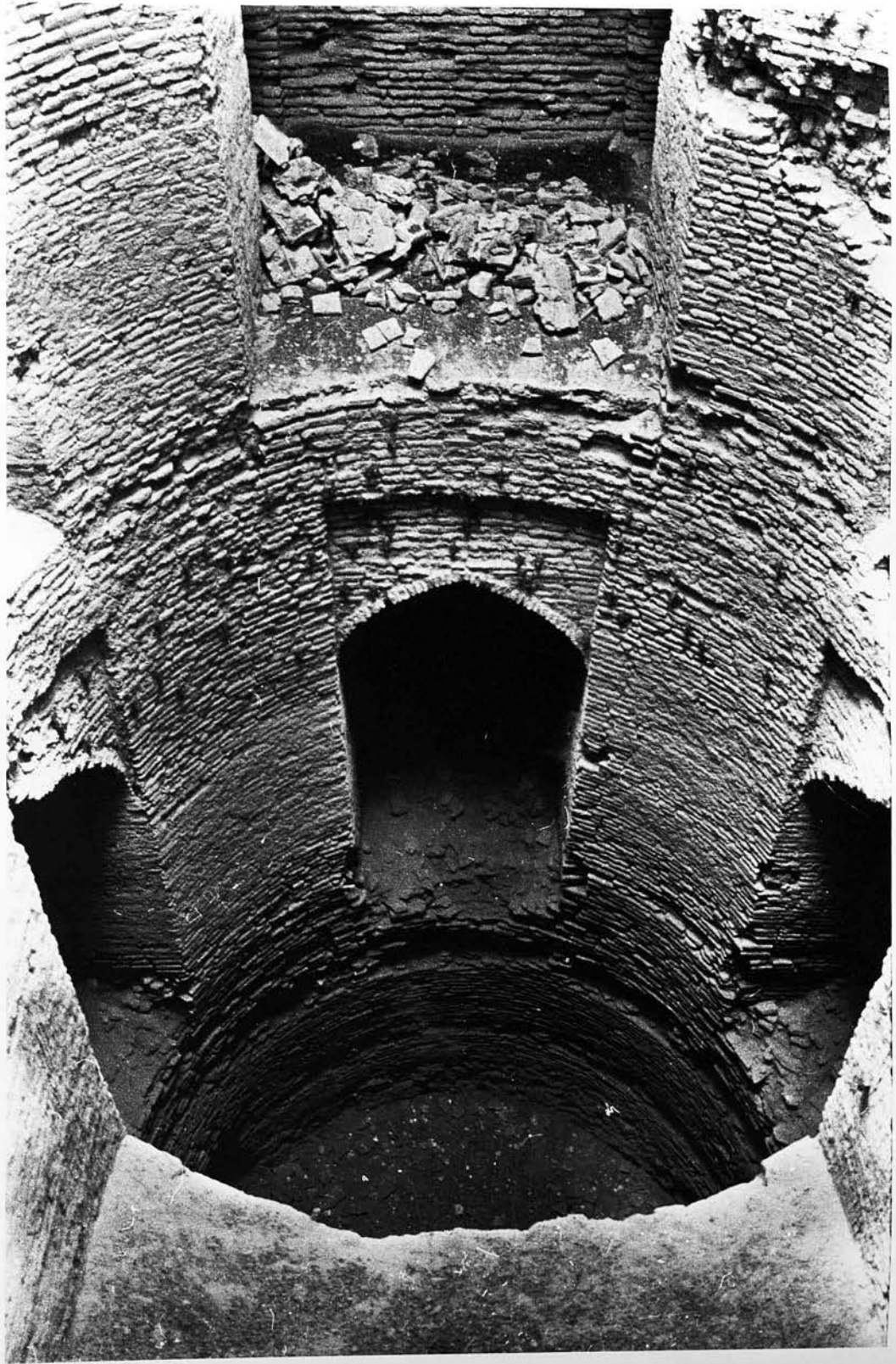
150-Bost, Afghanistan; The Well, Chamber above the central shaft and opening to the ceiling of chamber 17 .



151-Bost, Afghanistan; The Well, entrance .



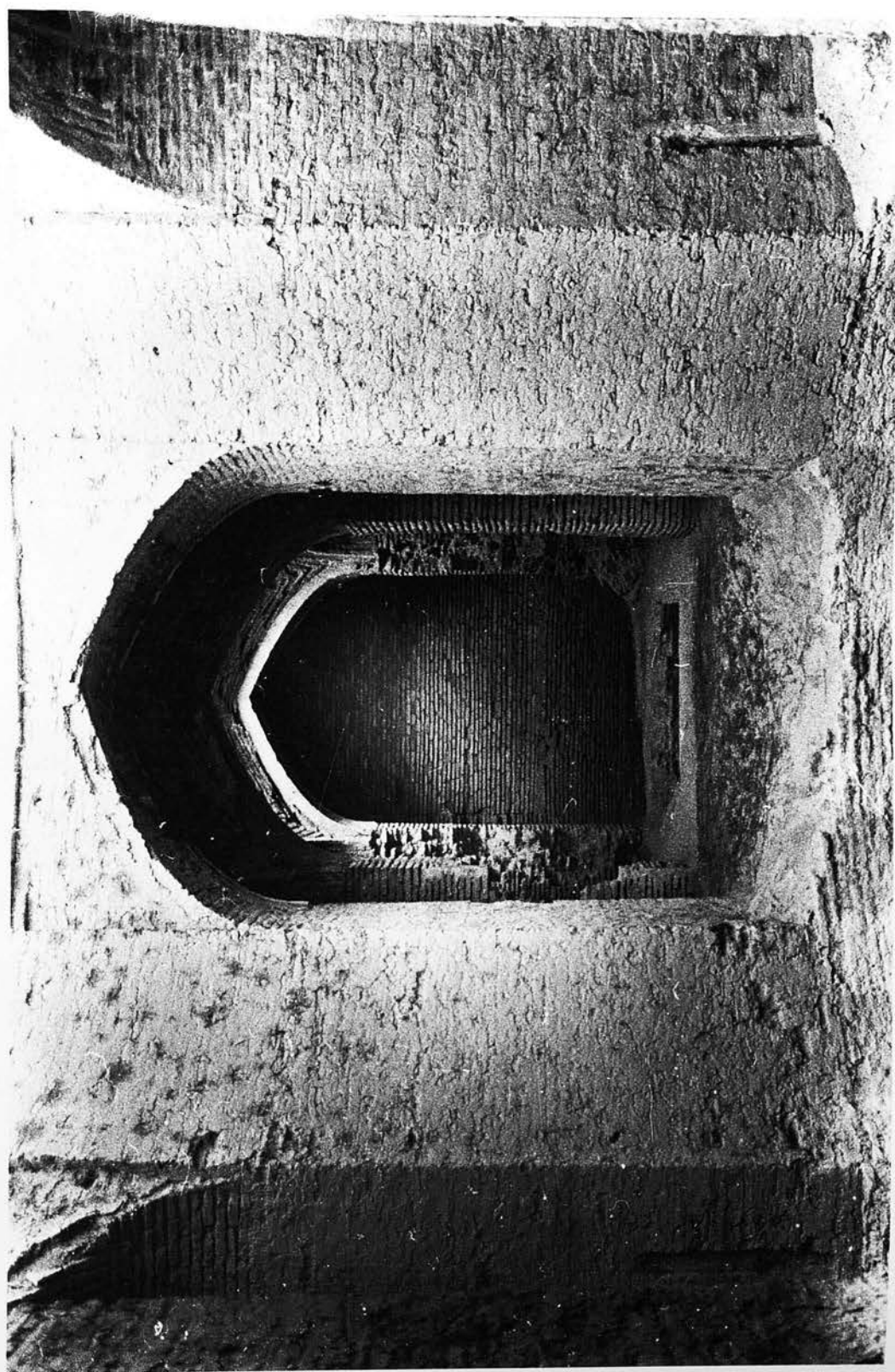
152-Bost, Afghanistan; The Well, staircase .



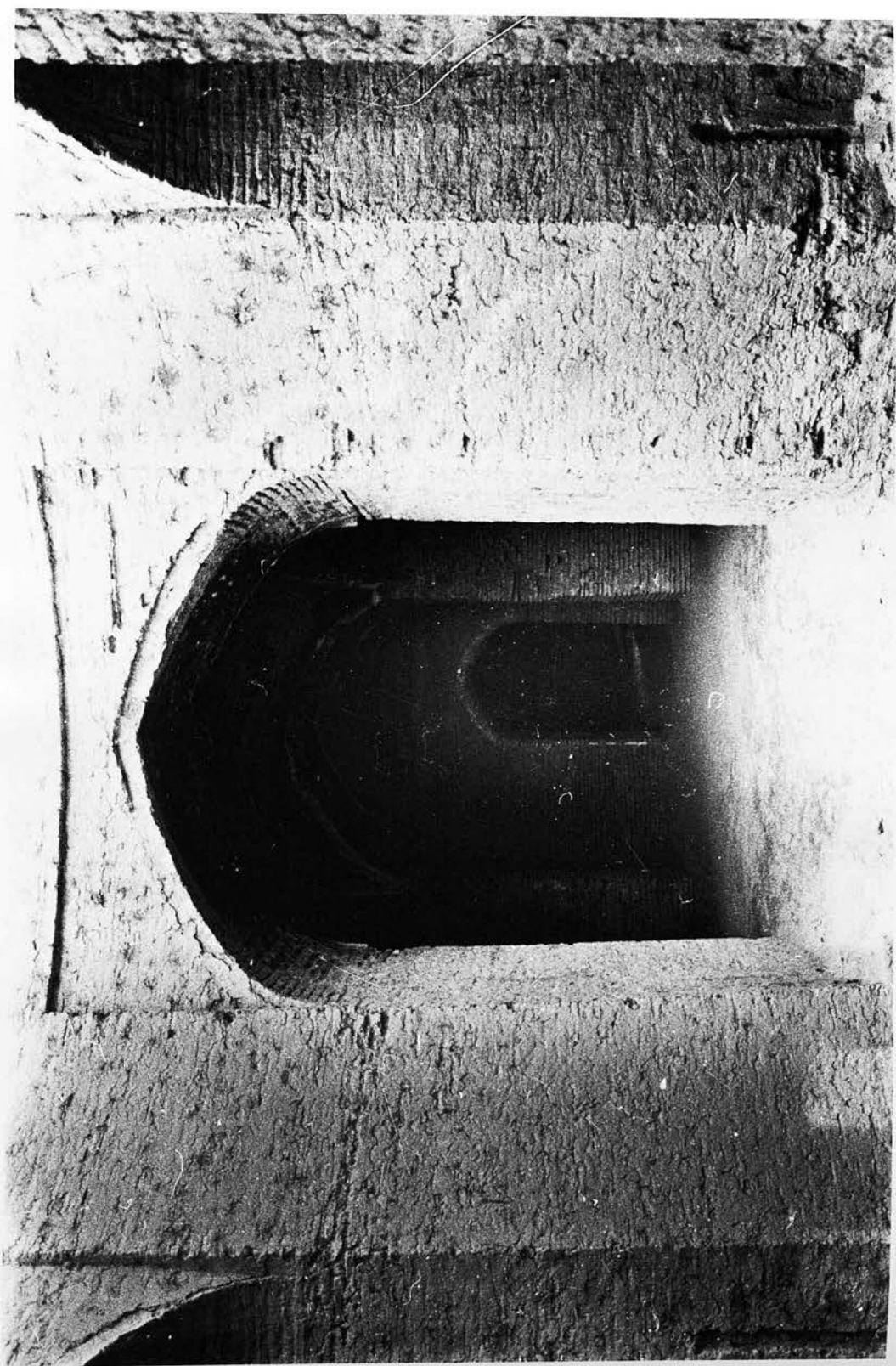
153-Bost, Afghanistan; The Well, central shaft .



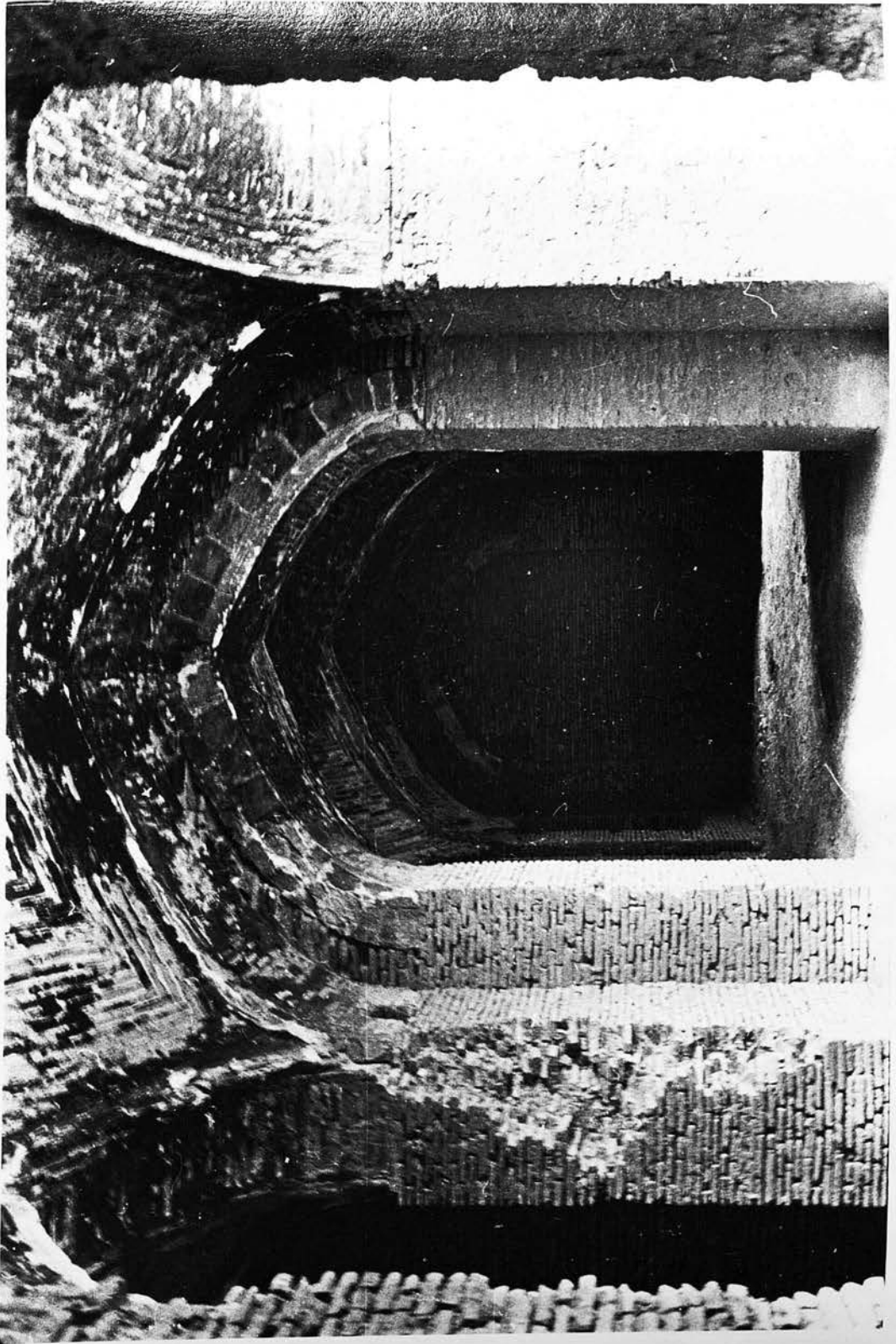
154-Bost, Afghanistan; The Well, Level 1, Chamber 17 .



155-Bost, Afghanistan; The Well, Level 1; Chambers 16 and 17 .



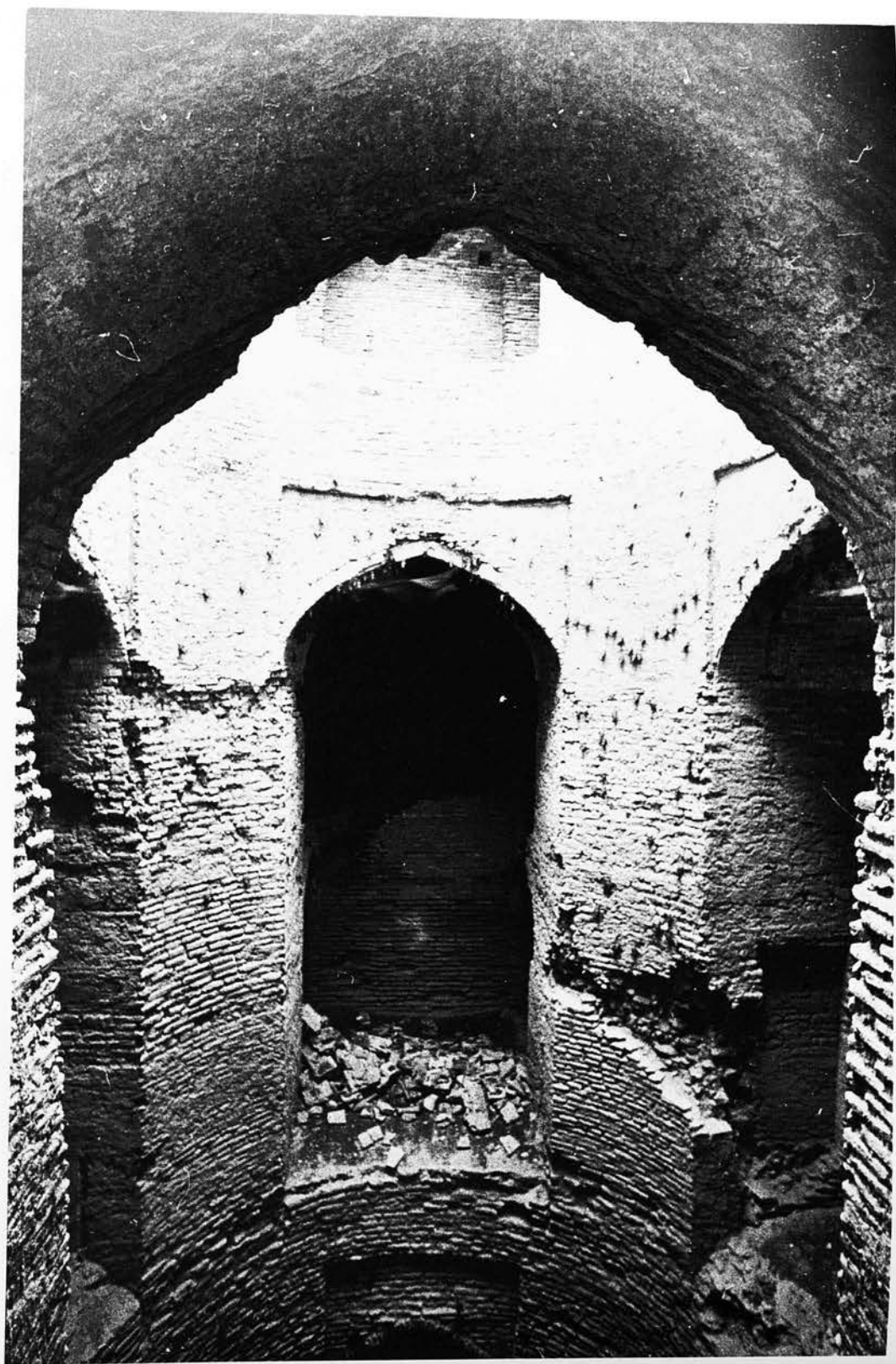
156-Bost, Afghanistan; The Well, Level 1; Chambers 8 and 9 .



157-Bost, Afghanistan; The Well, Level 1, Chambers 9, 10, 11, and 12 .



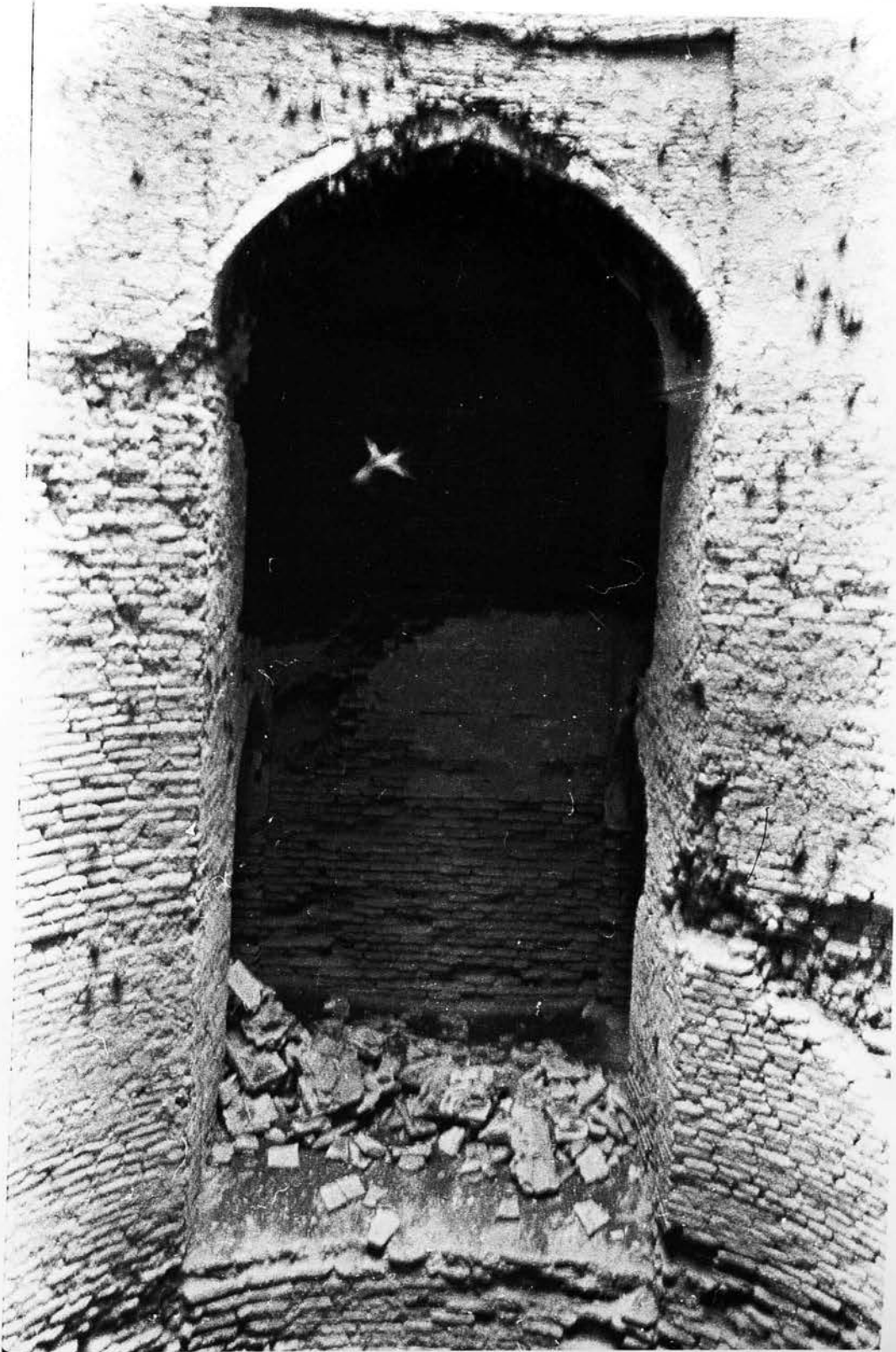
158-Bost, Afghanistan; The Well, Level 1, vaulting .



159-Bost, Afghanistan; The Well, view from the central shaft to the levels 2 and 3.



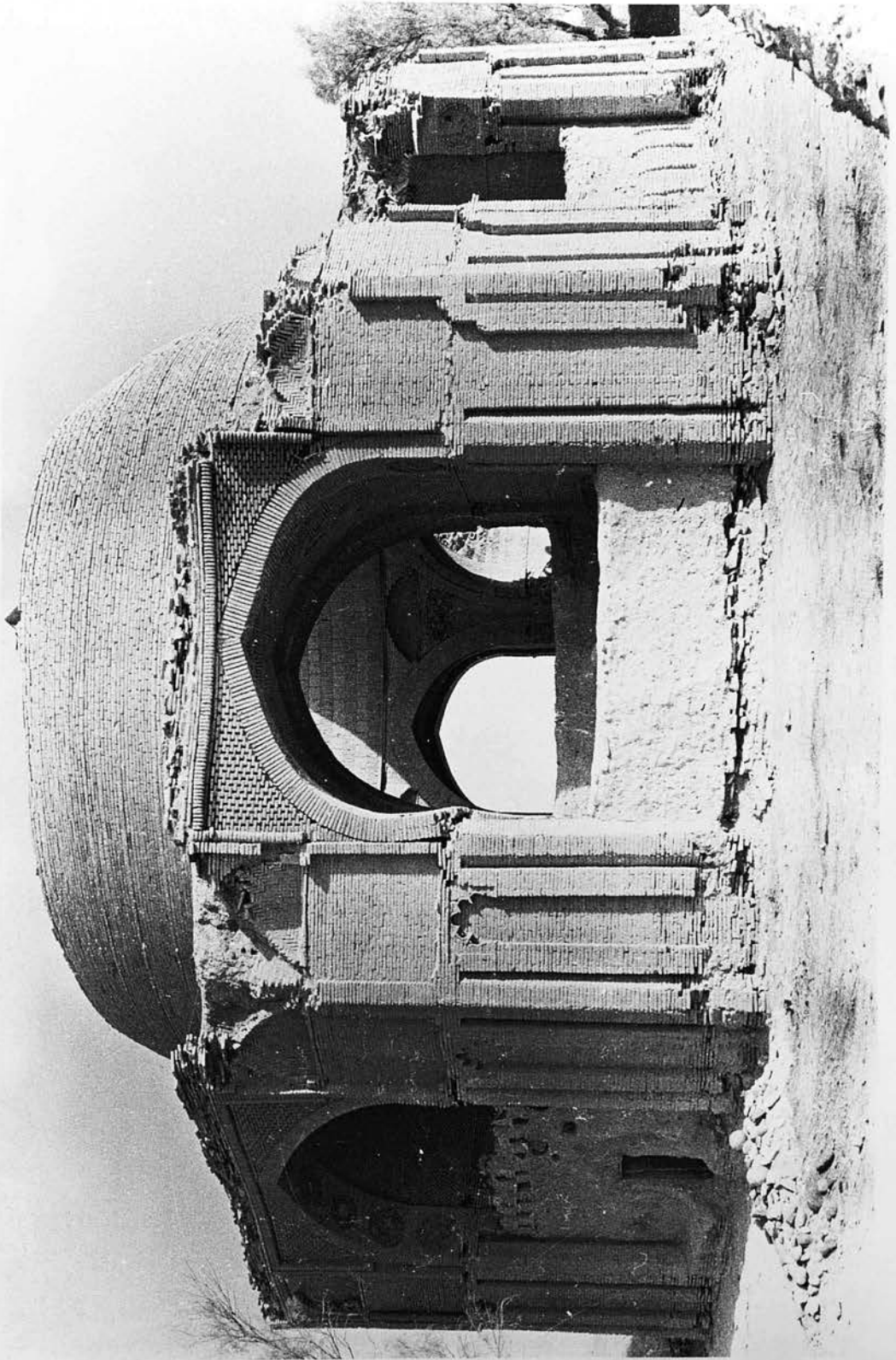
160-Bost Afghanistan;The Well, Levels 2 and 3 ; Coridors 39 and 53
(the roof of ThoLevel 3 is collapsed) .



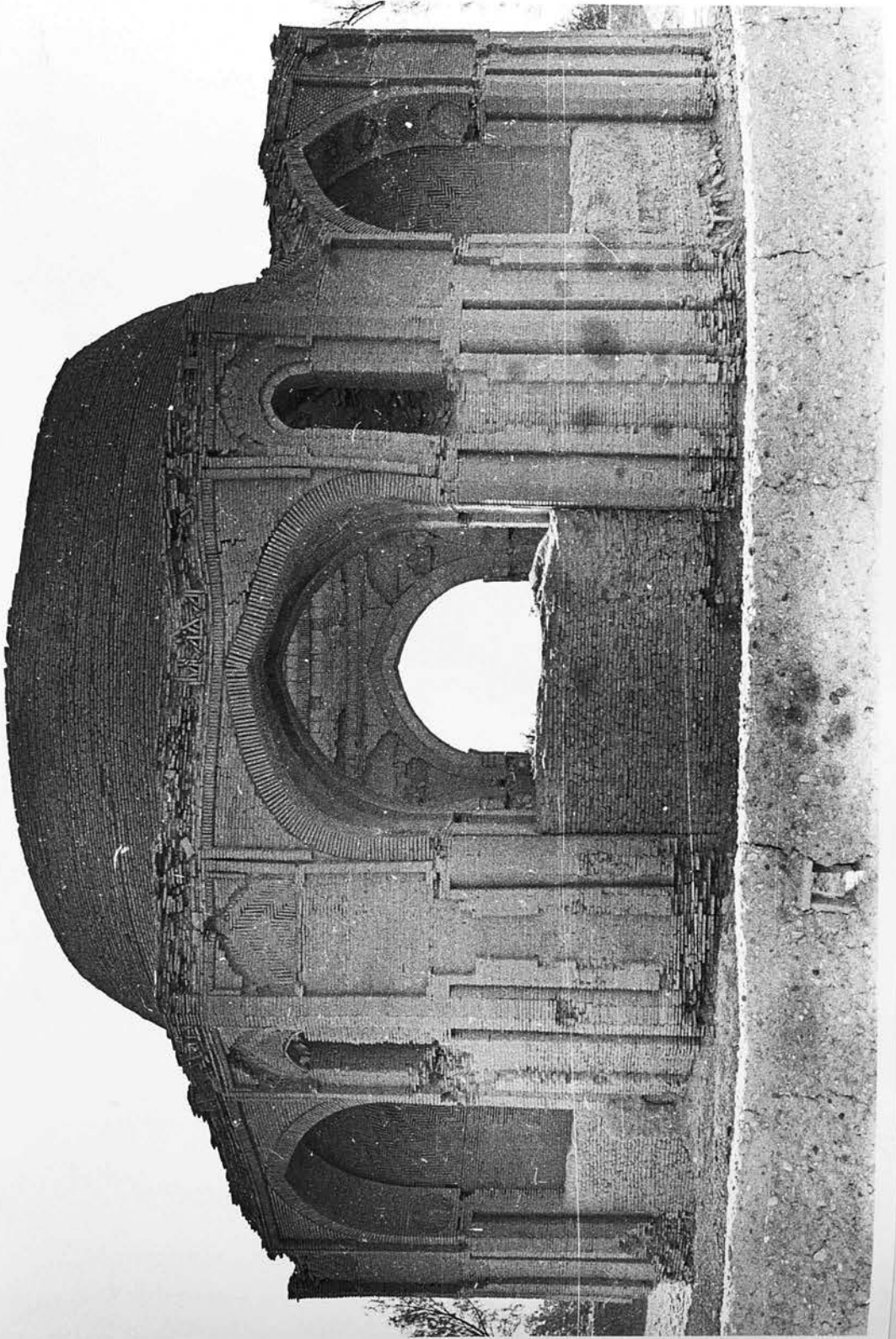
161- Bost Afghanistan; The Well, Levels 2 and 3, chambers 43 and 56
(The roof of 56 is collapsed).



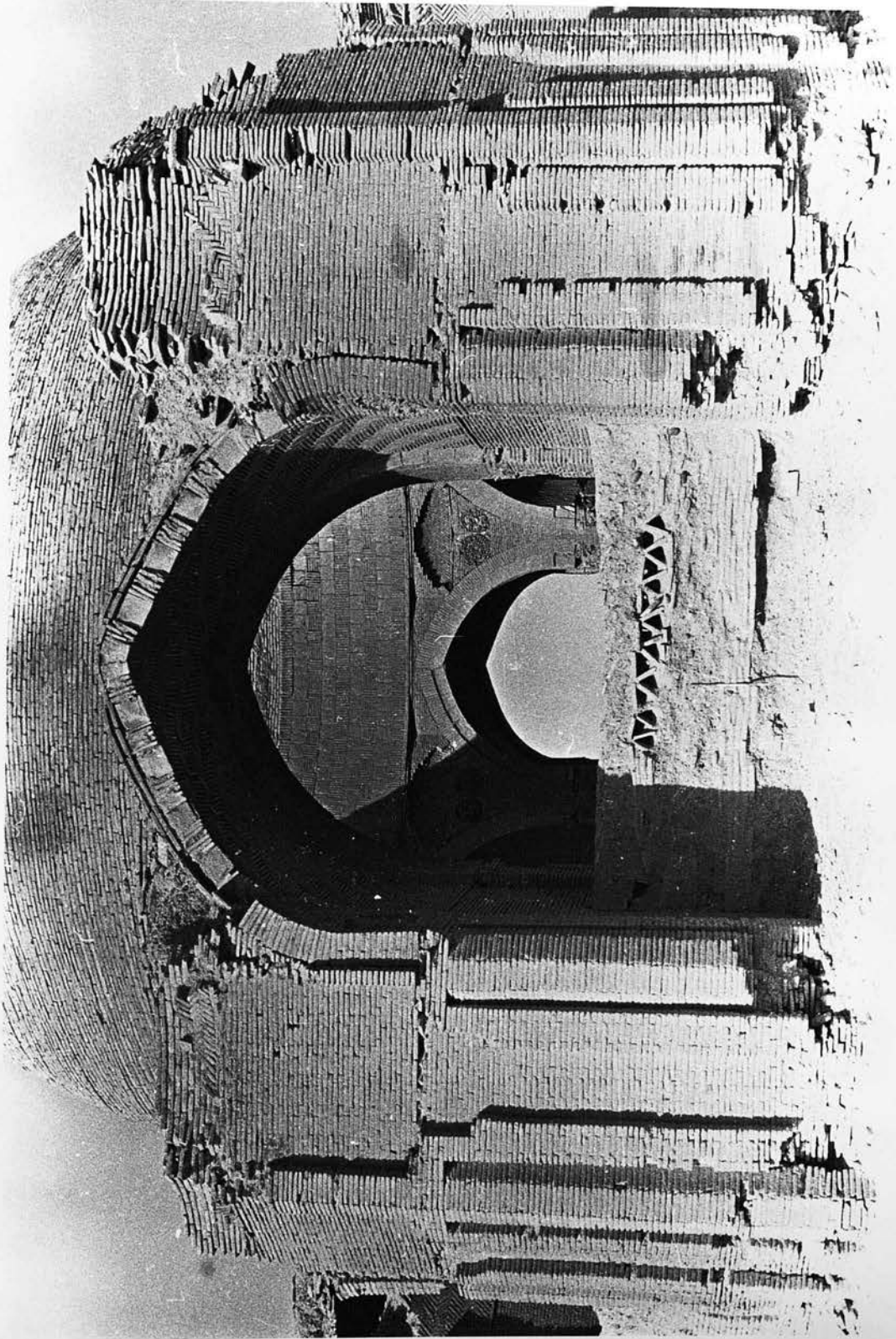
162-Bost, Afghanistan; Shāhzāde Sarbāz. General view .



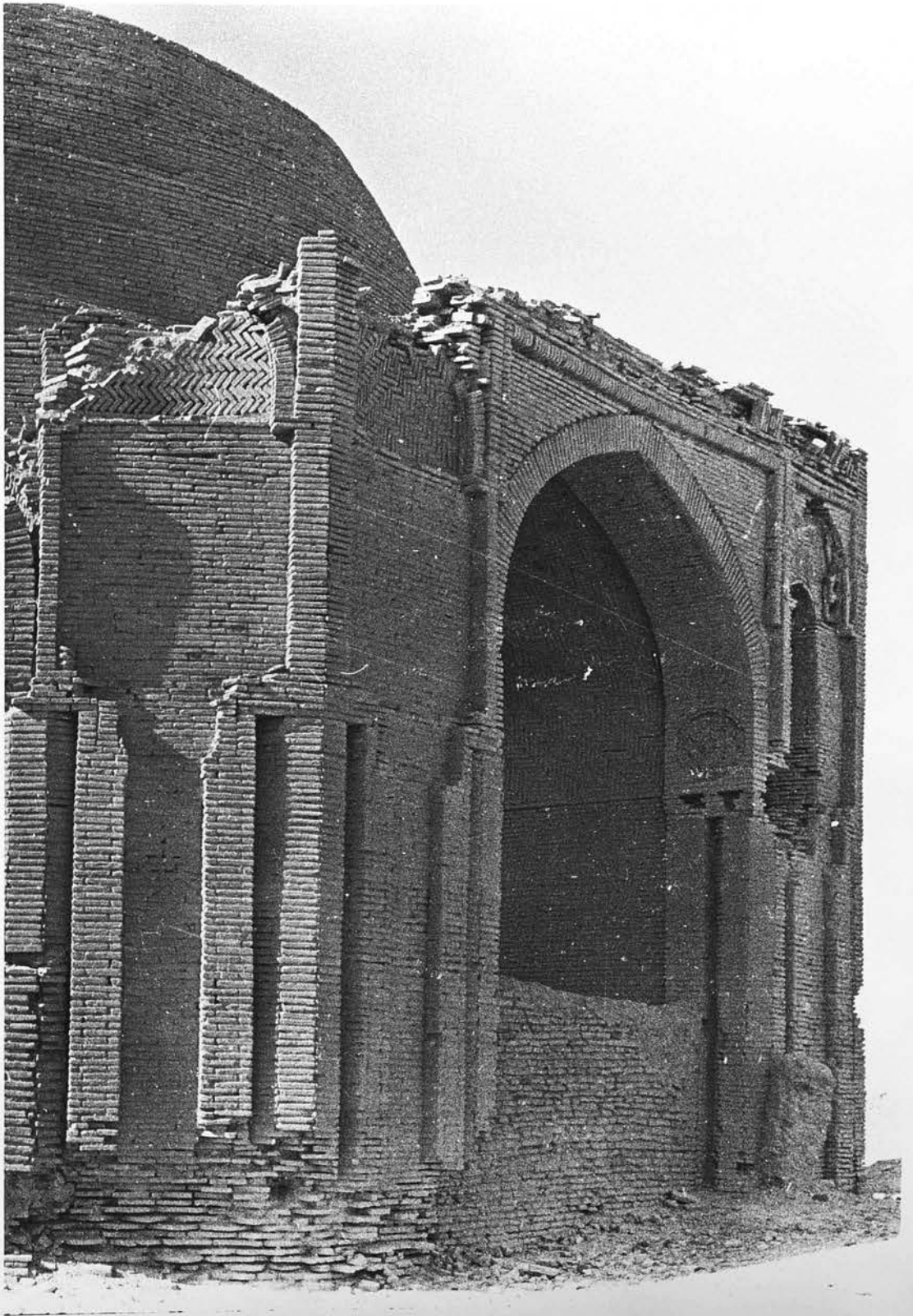
163- Bost, Afghanistan; Shāhzāde Sarbāz .



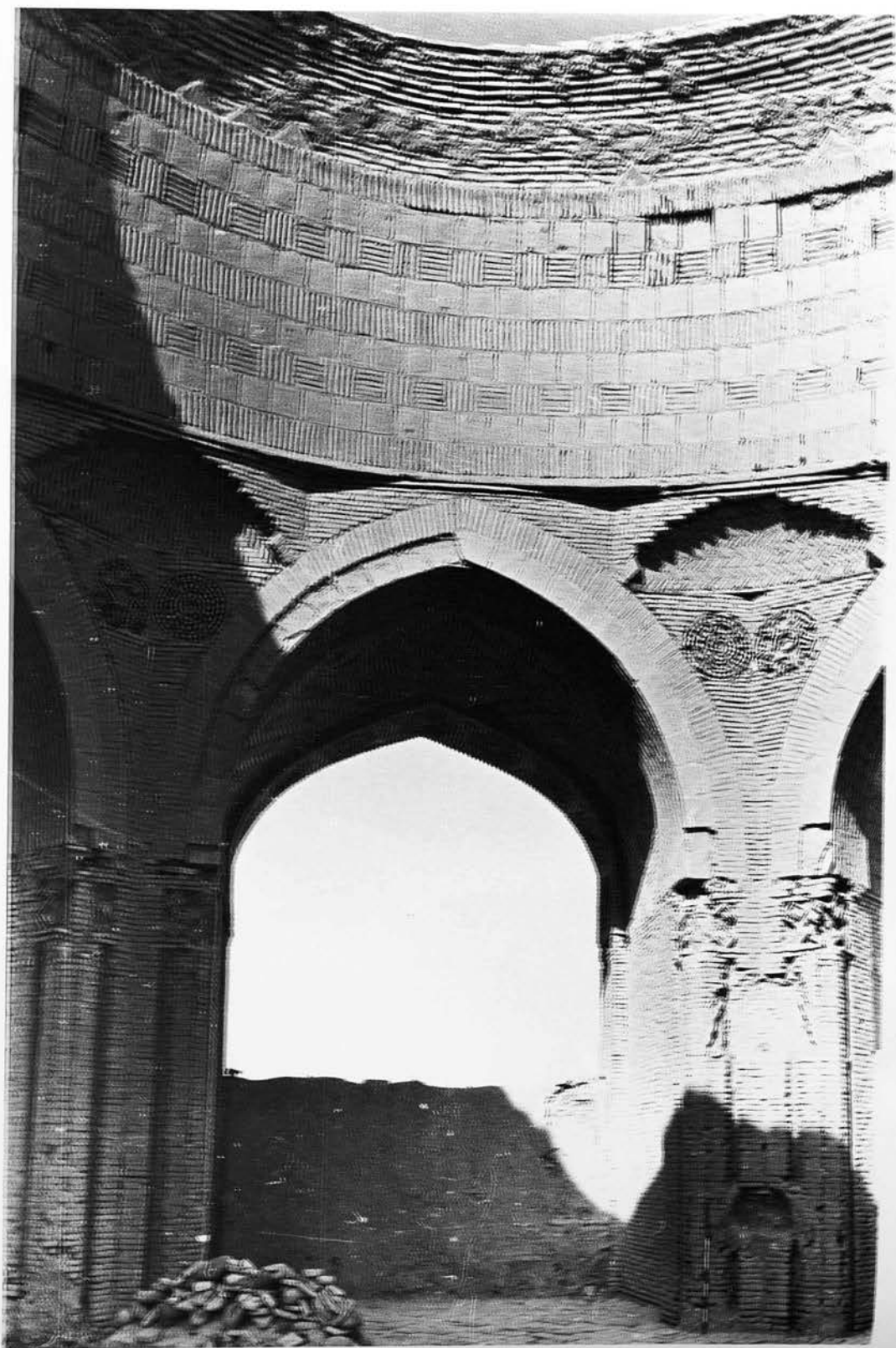
164-Bost, Afghanistan; Shāhzāde Sarbāz .



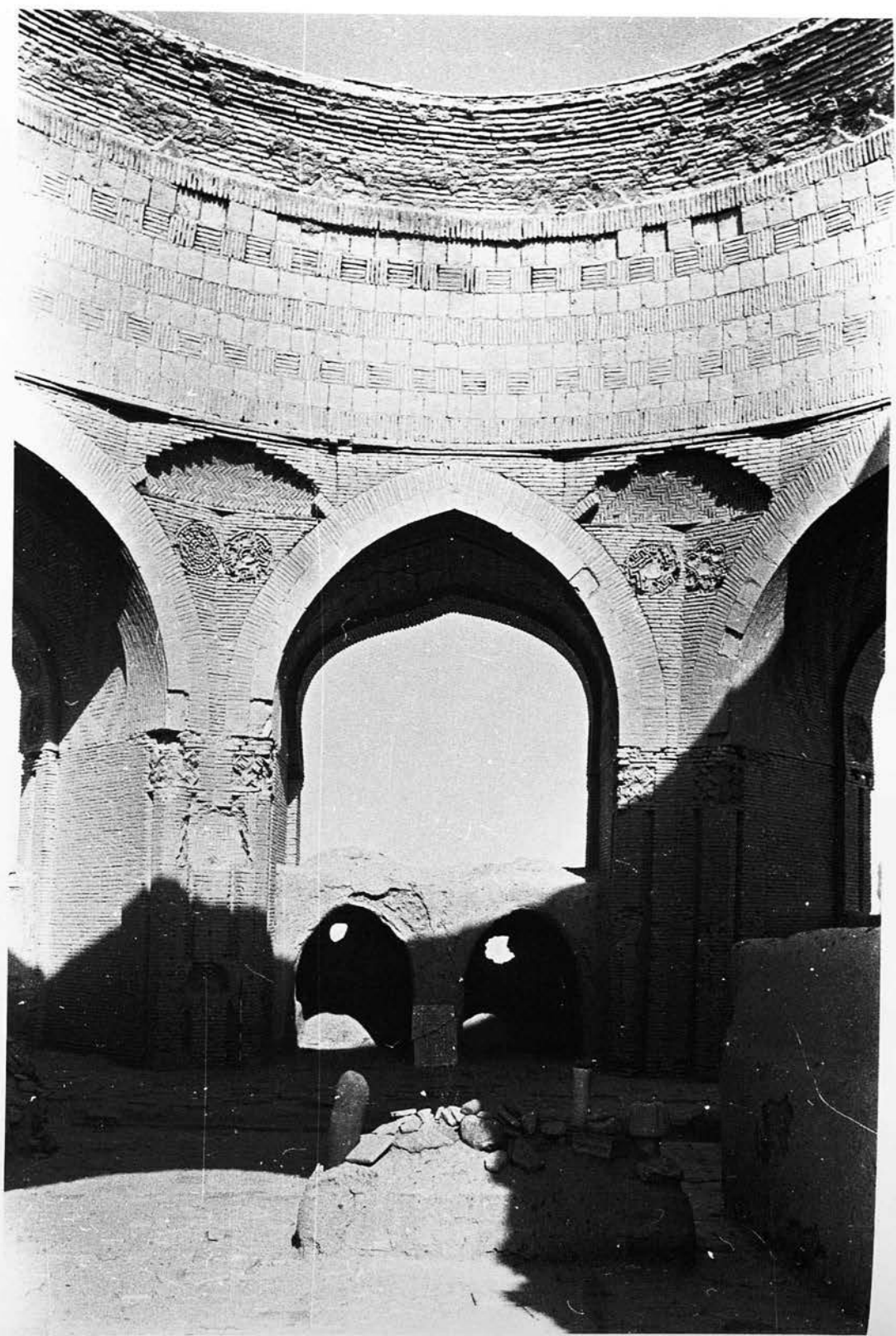
165-Bost, Afghanistan; Shāhzāde Sarbāz .



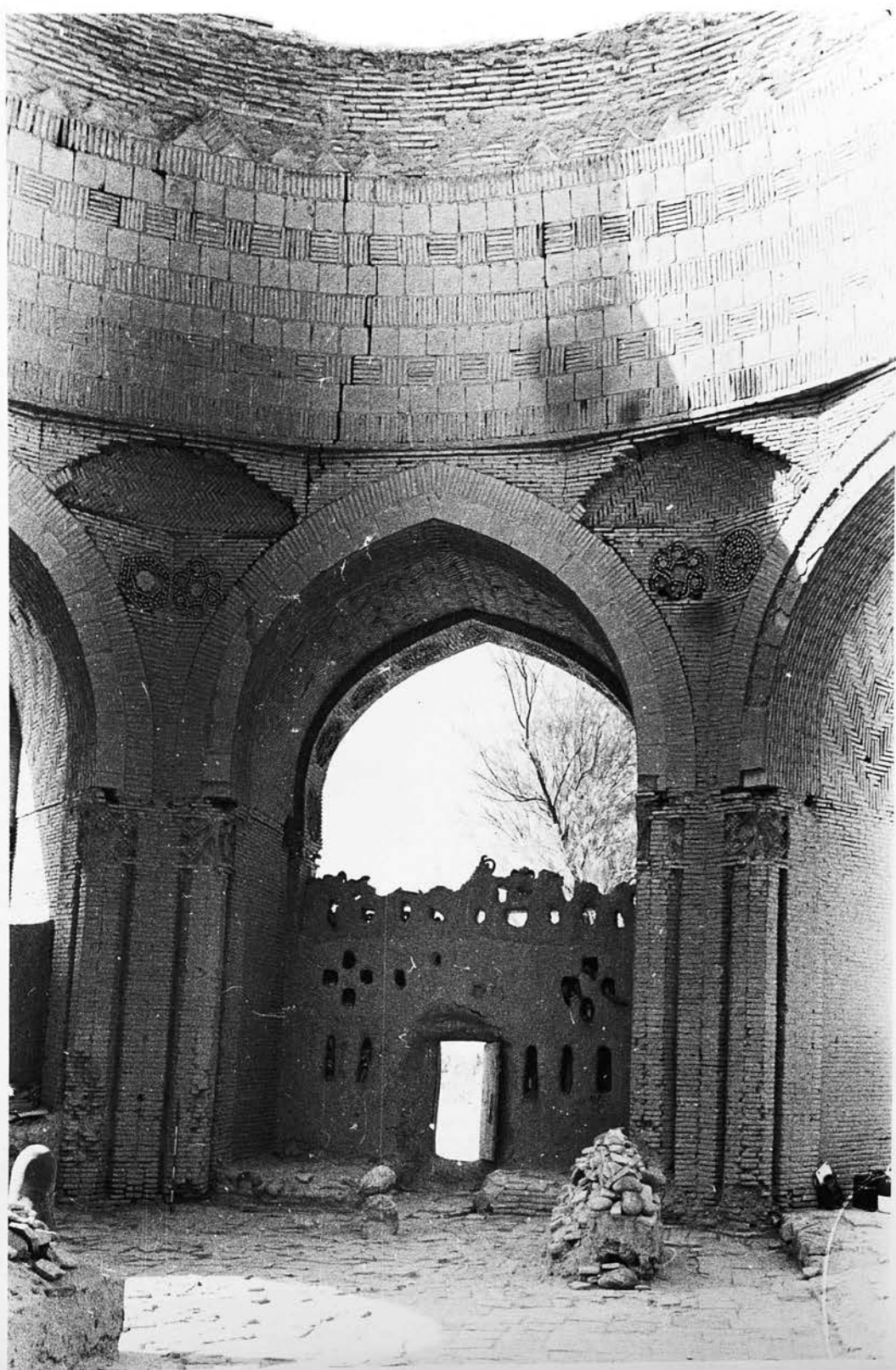
166-Bost, Afghanistan; Shāhzāde Sarbāz .



167-Bost, Afghanistan; Shāhzāde Sarbāz, interior .



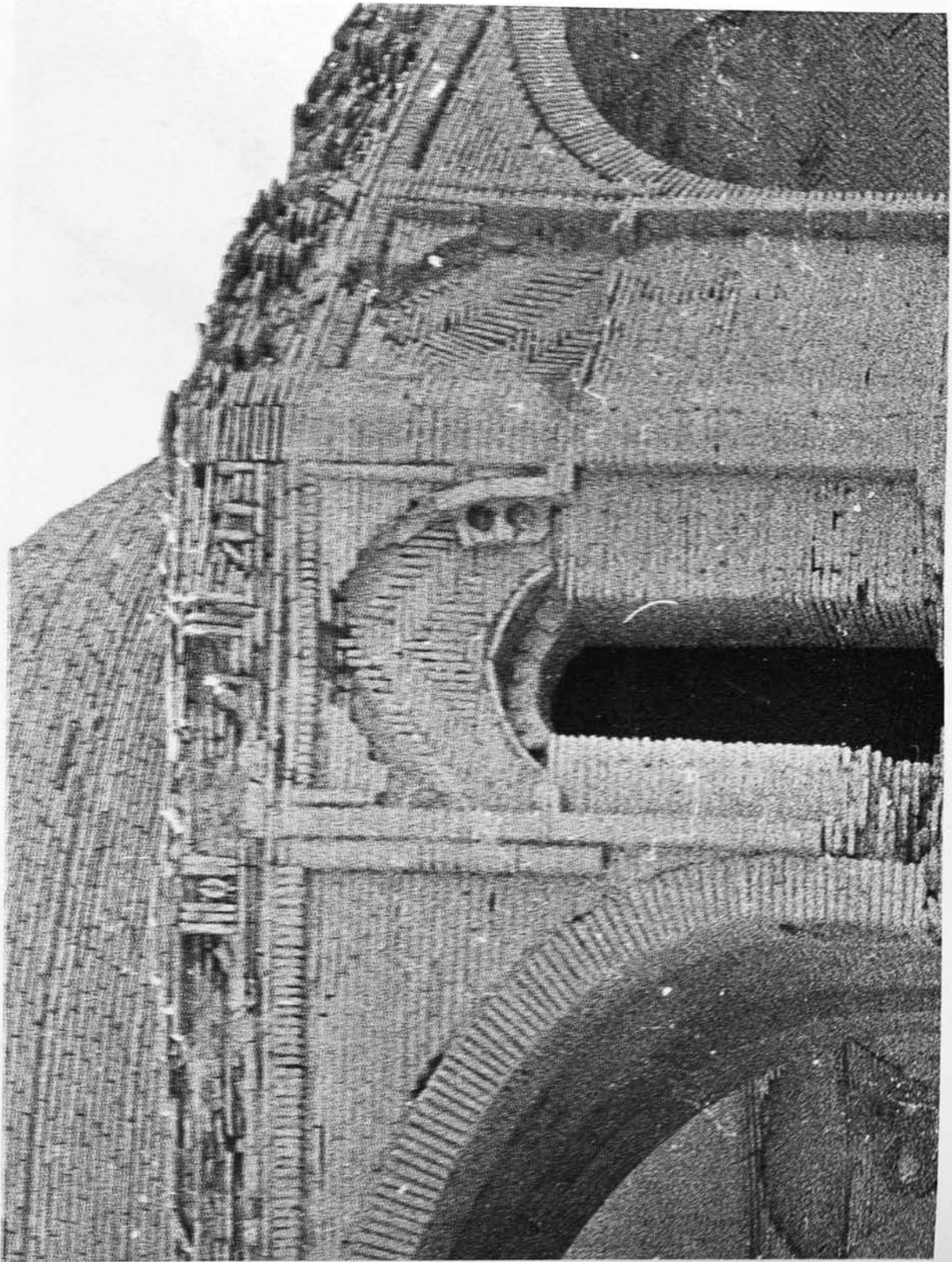
168-Bost, Afghanistan; Shāhzāde Sarbāz, interior .



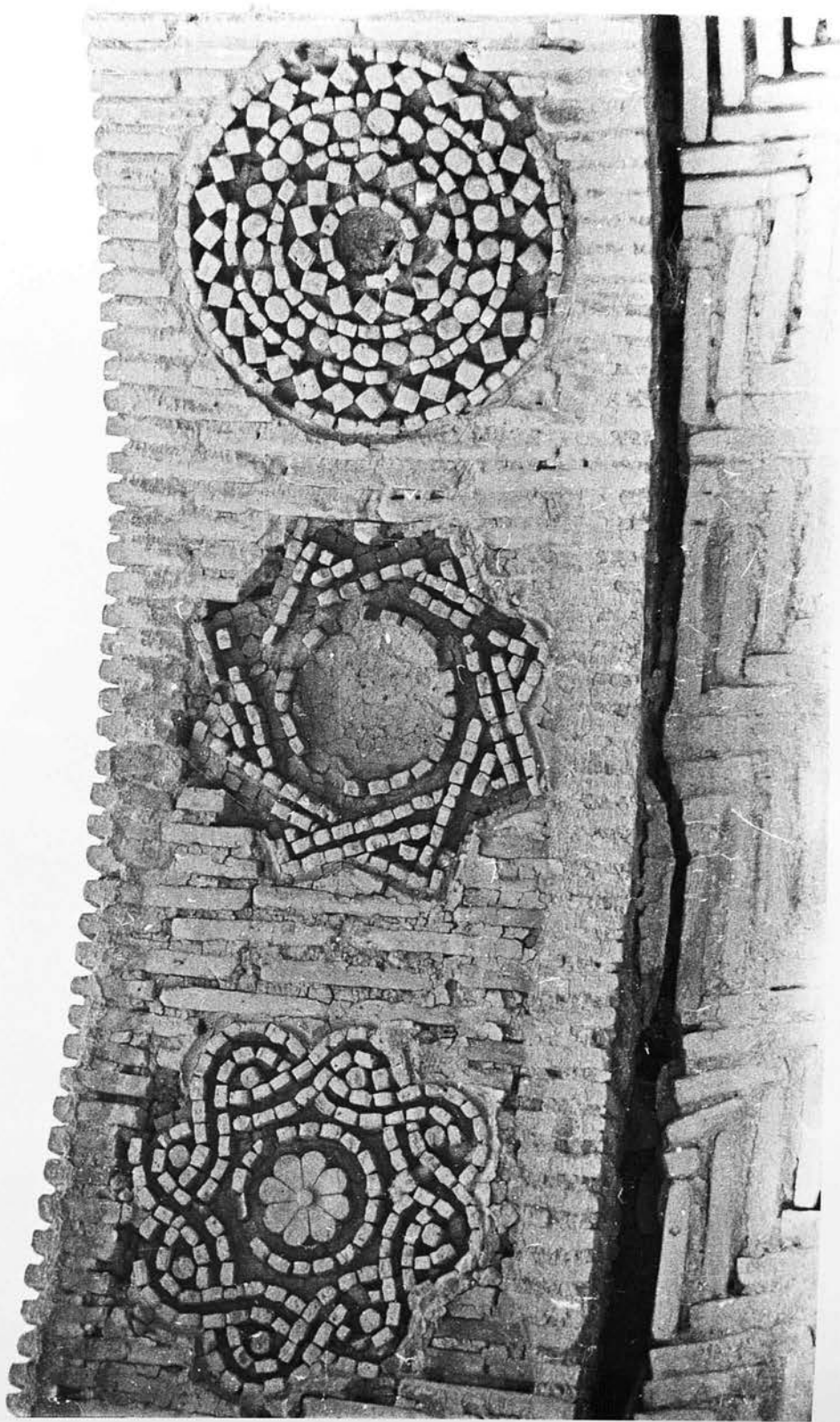
169-Bost, Afghanistan; Shāhzāde Sarbāz, interior .



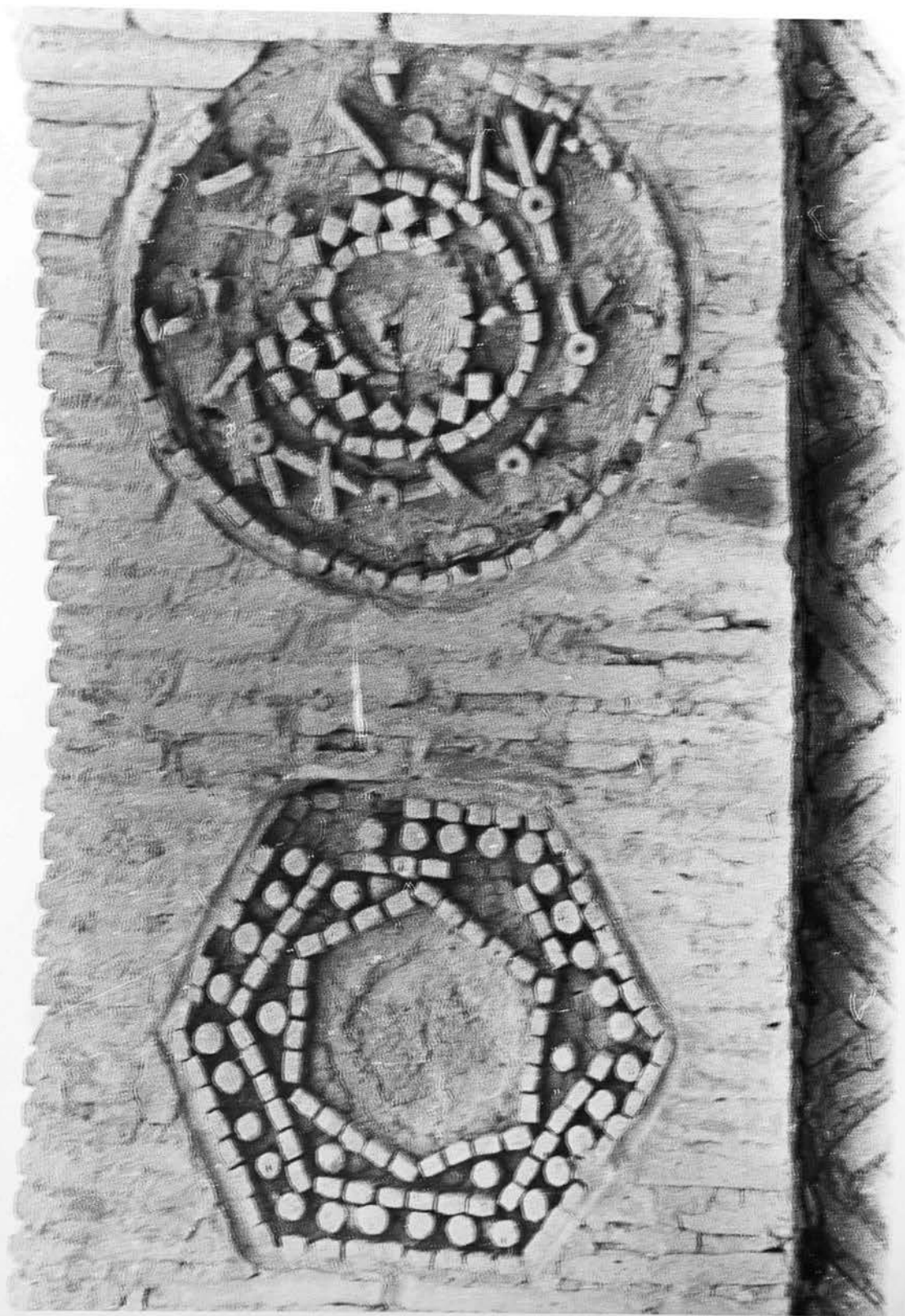
170-Bost, Afghanistan; Shâhzâde Sarbâz , a cusped arch .



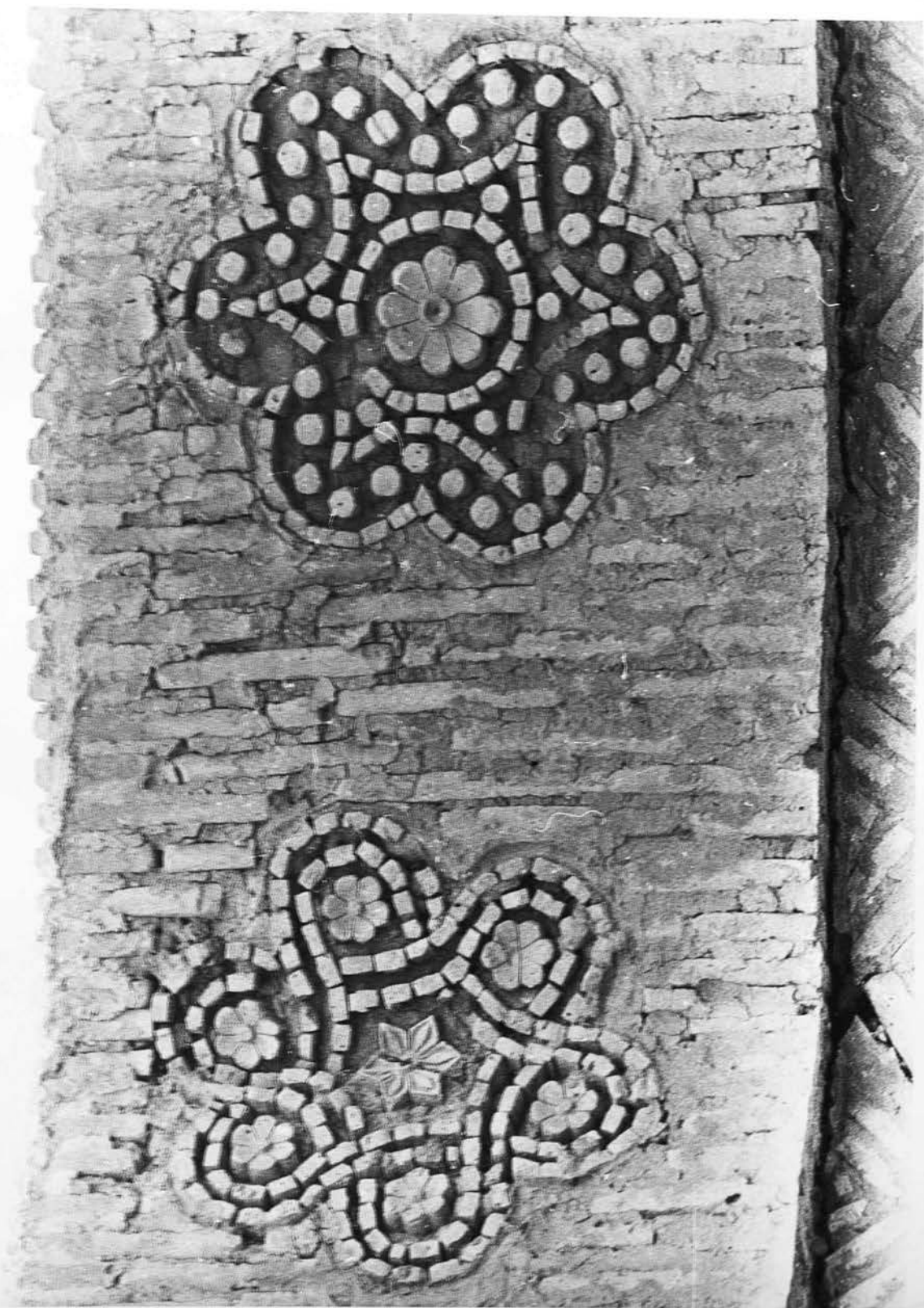
171-Bost, Afghanistan; detail of the side niches and inscription at the shrine of Shāhzāde Sarbāz .



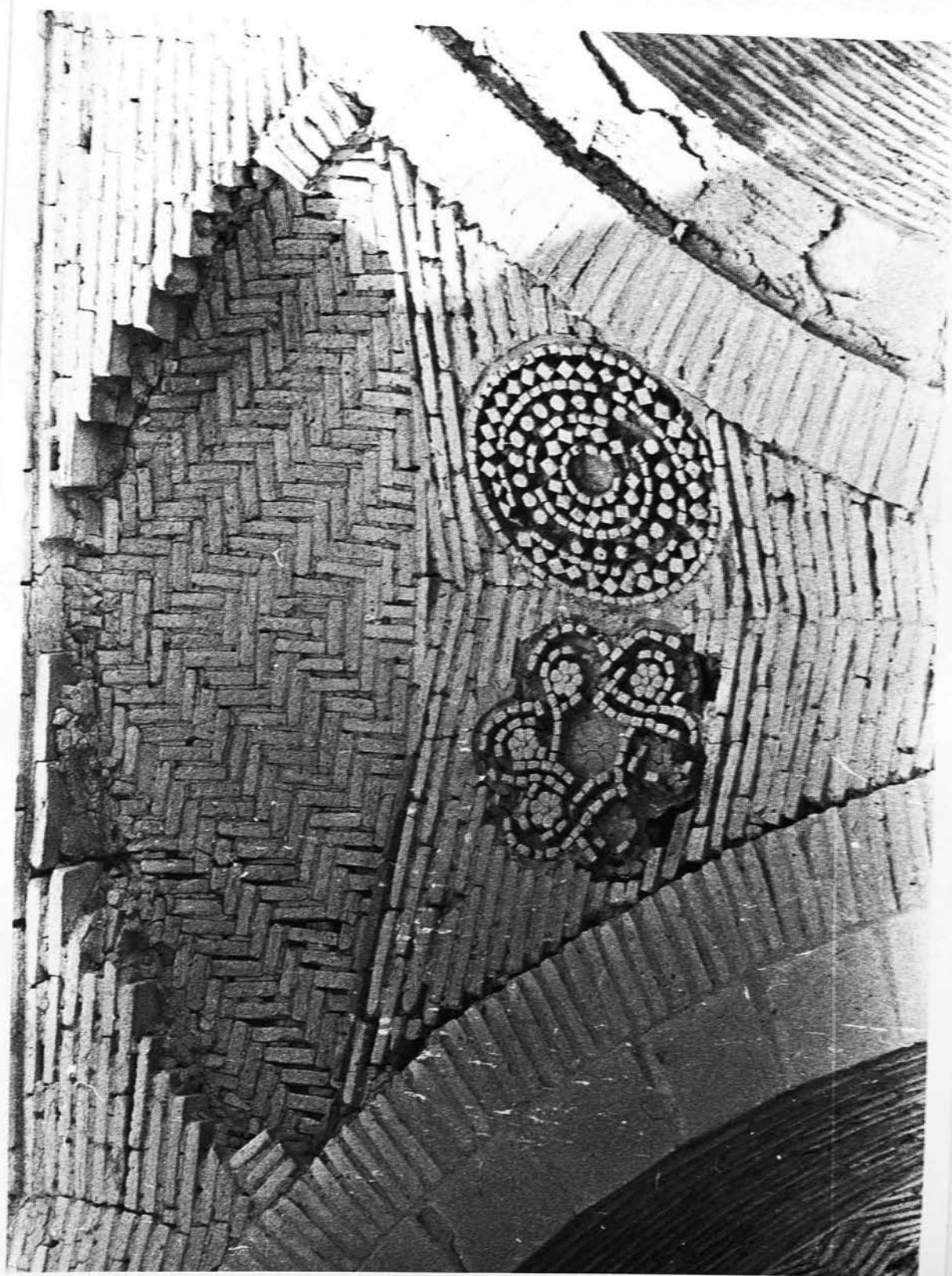
172-Bost, Afghanistan; detail of roundels under the arches at the shrine of Shāhzāde Sarbāz .



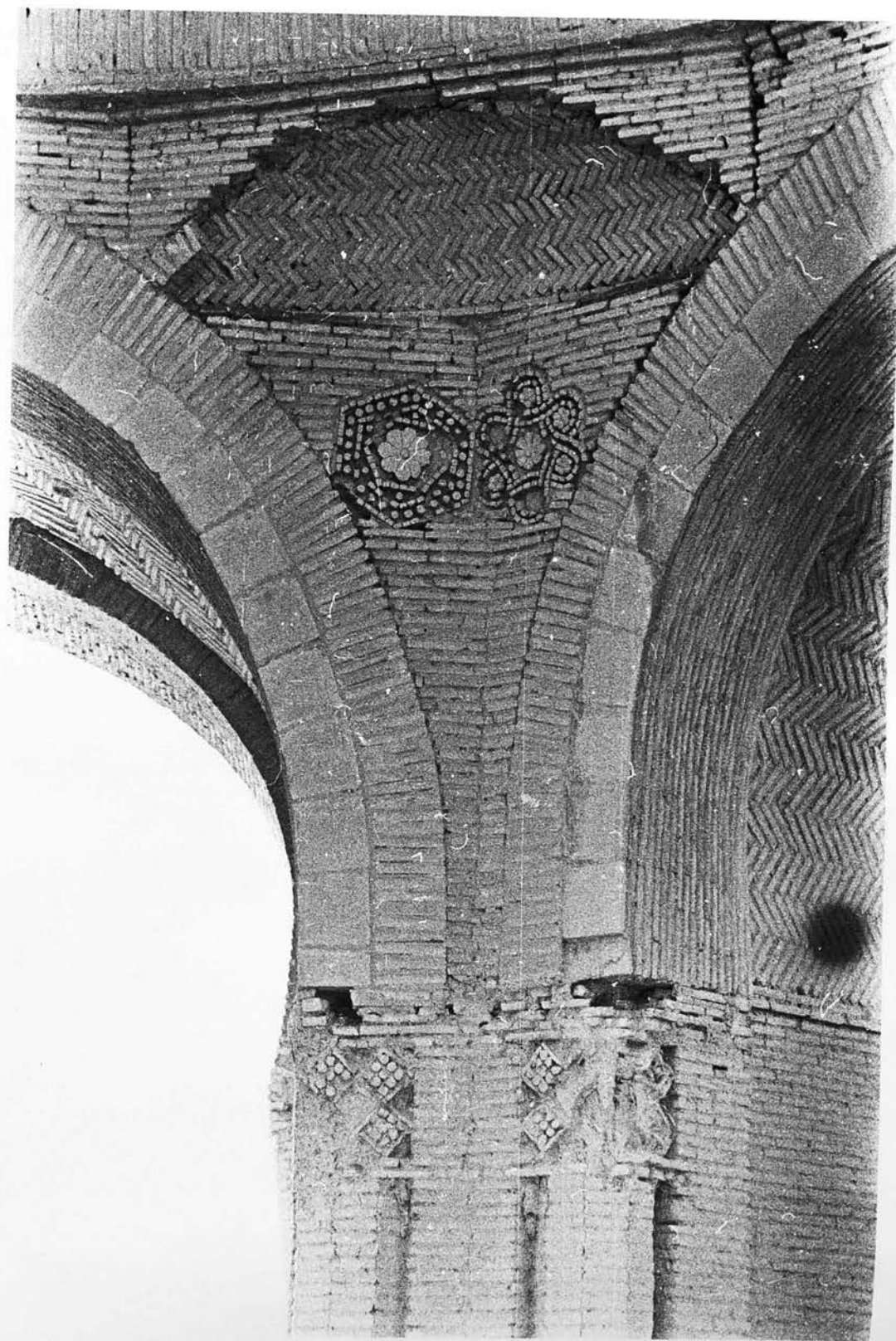
173-Post, Afghanistan; detail of roundels under the arches at the shrine of Shahzade Sarbaz .



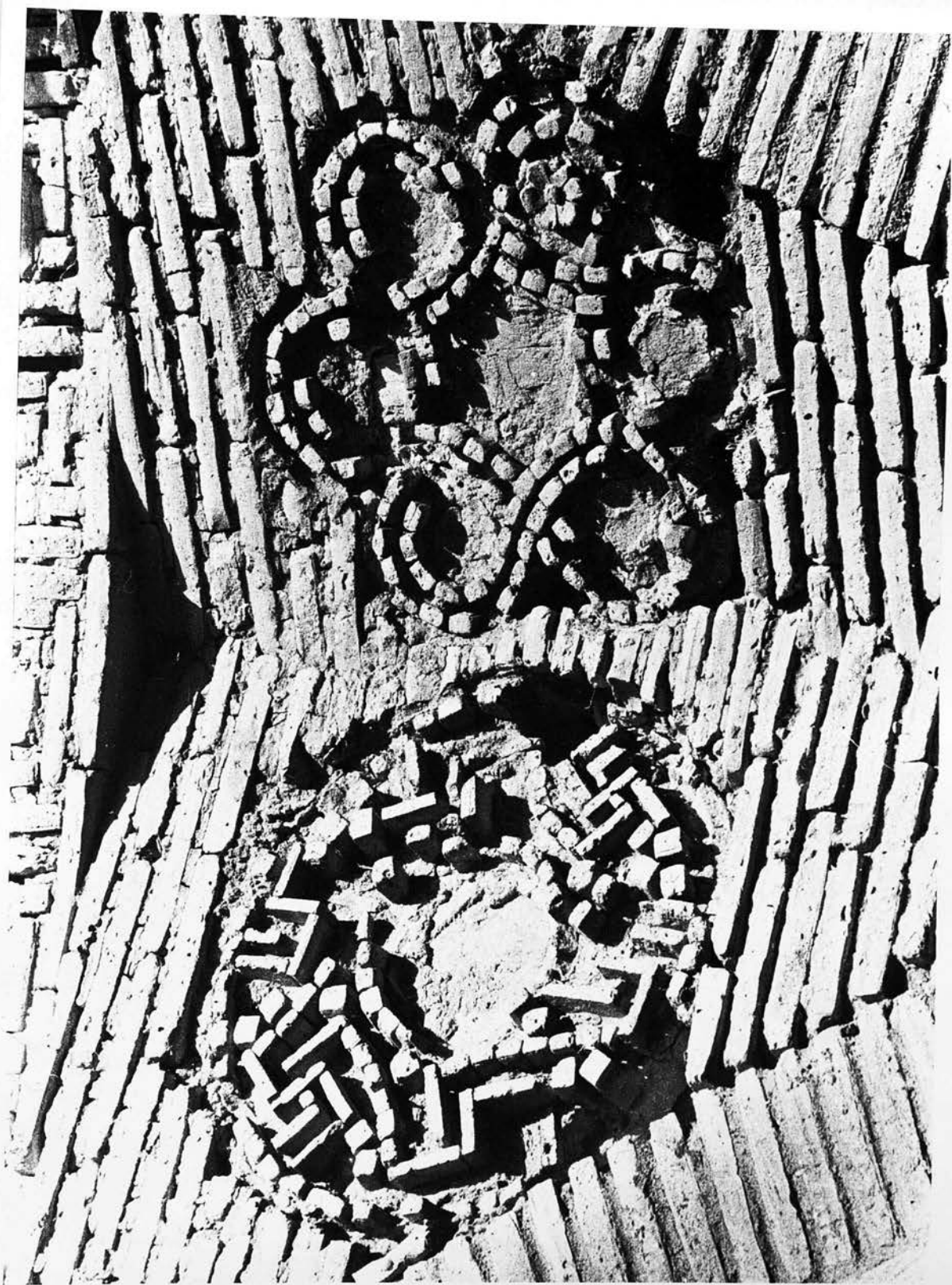
174-Bost, Afghanistan; detail of roundels under the arches at the shrine of Shâzâde Sarbâz .



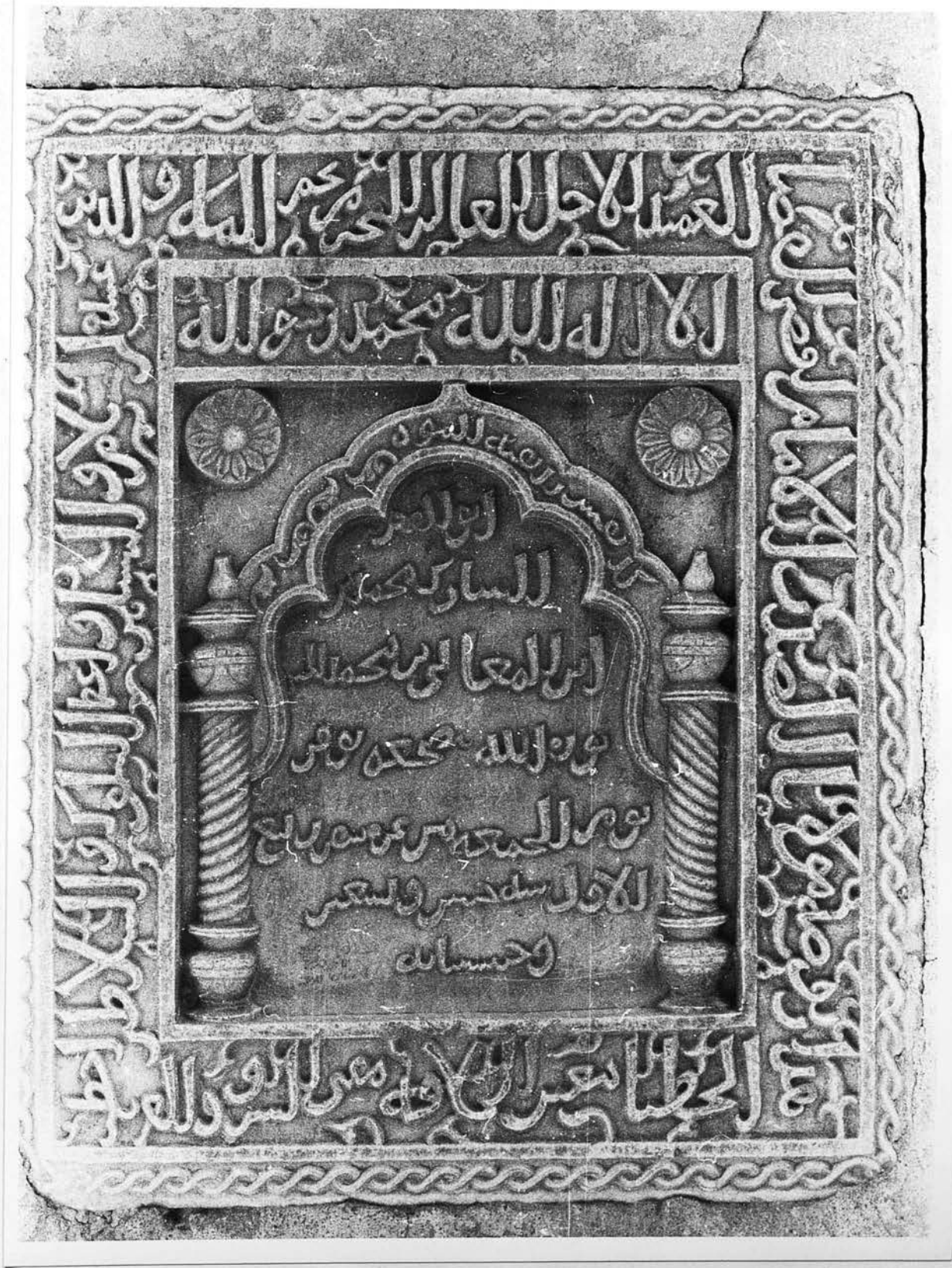
175-Bost, Afghanistan; detail of the roundels under the squinches at the shrine of Shāhzāde Sarbāz .



176-Bost, Afghanistan; detail of the roundels under the squinches at the shrine of Shāhzāde Sarbāz .



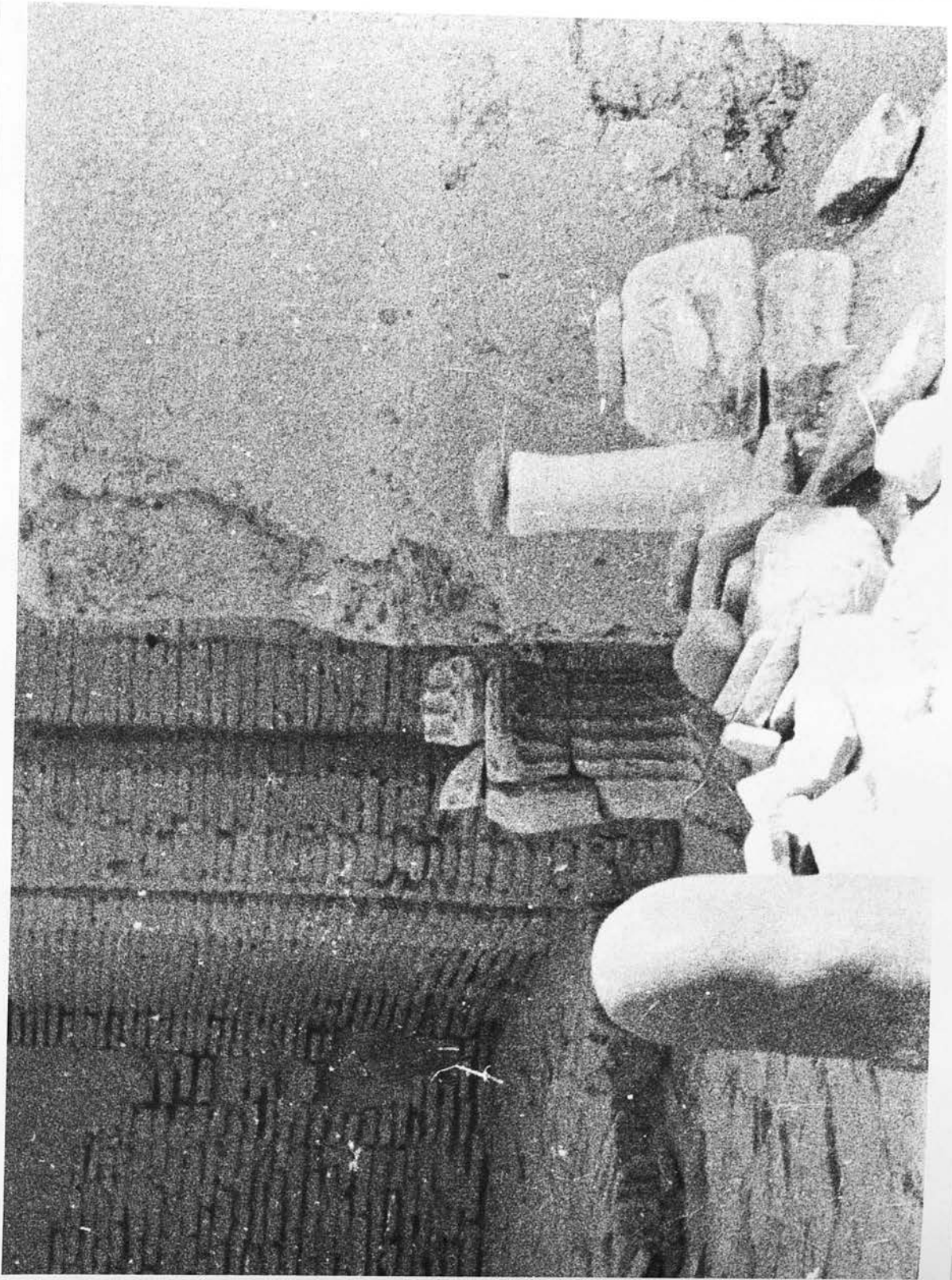
177-Bost Afghanistan; Shâhzâde Sarbâz, detail of the roundels under the squinches .



178-Bost, Afghanistan; Shāhzāde Sarbās, tomb stone dated 595.H., 1199 A.D.

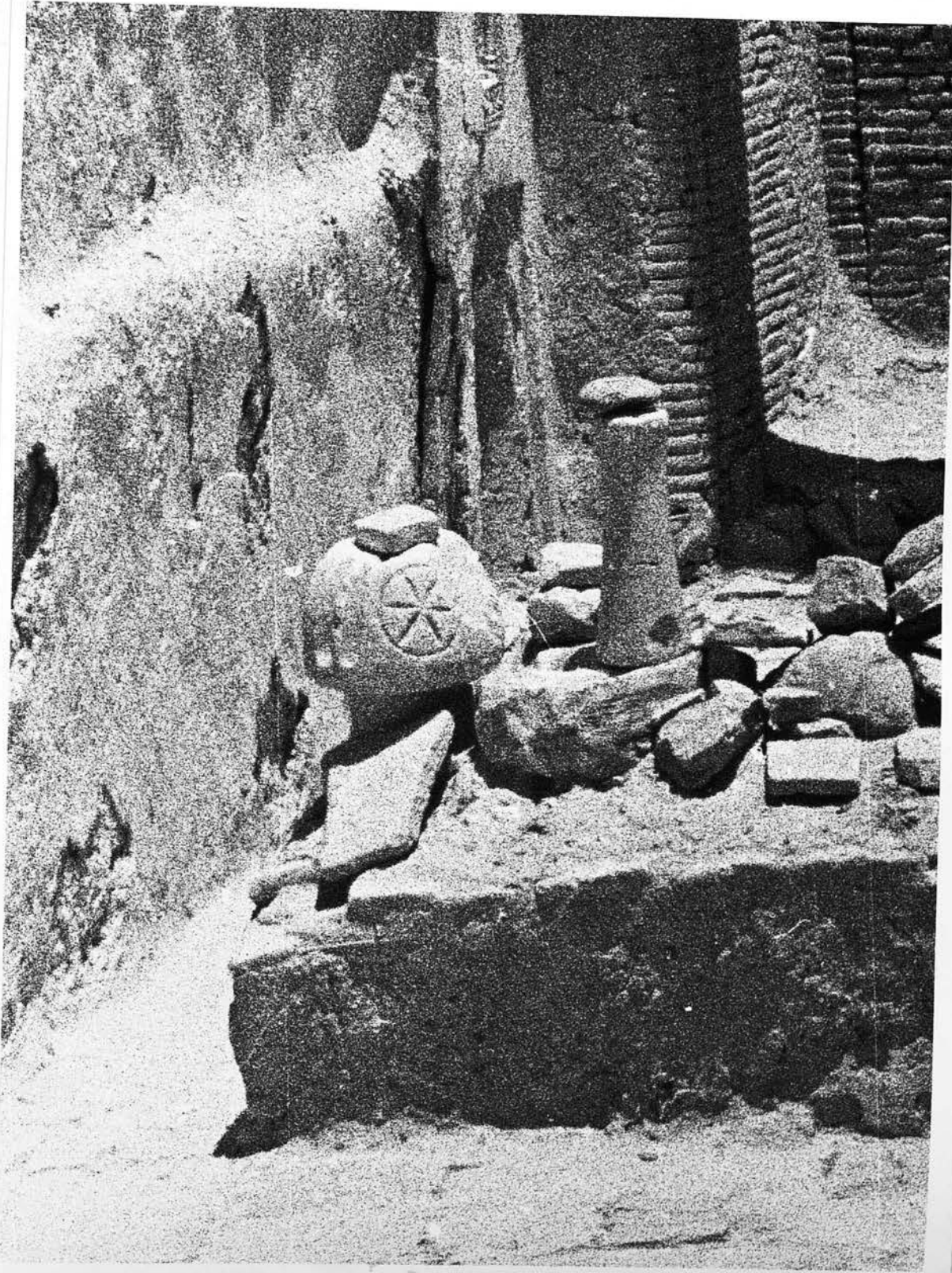


179-Bost, Afghanistan; Shāhzāde Sarbāz , tomb stone dated 650.H.,
1252.A.D.



180- Bost, Afghanistan; Shāhzāde Sarbāz,

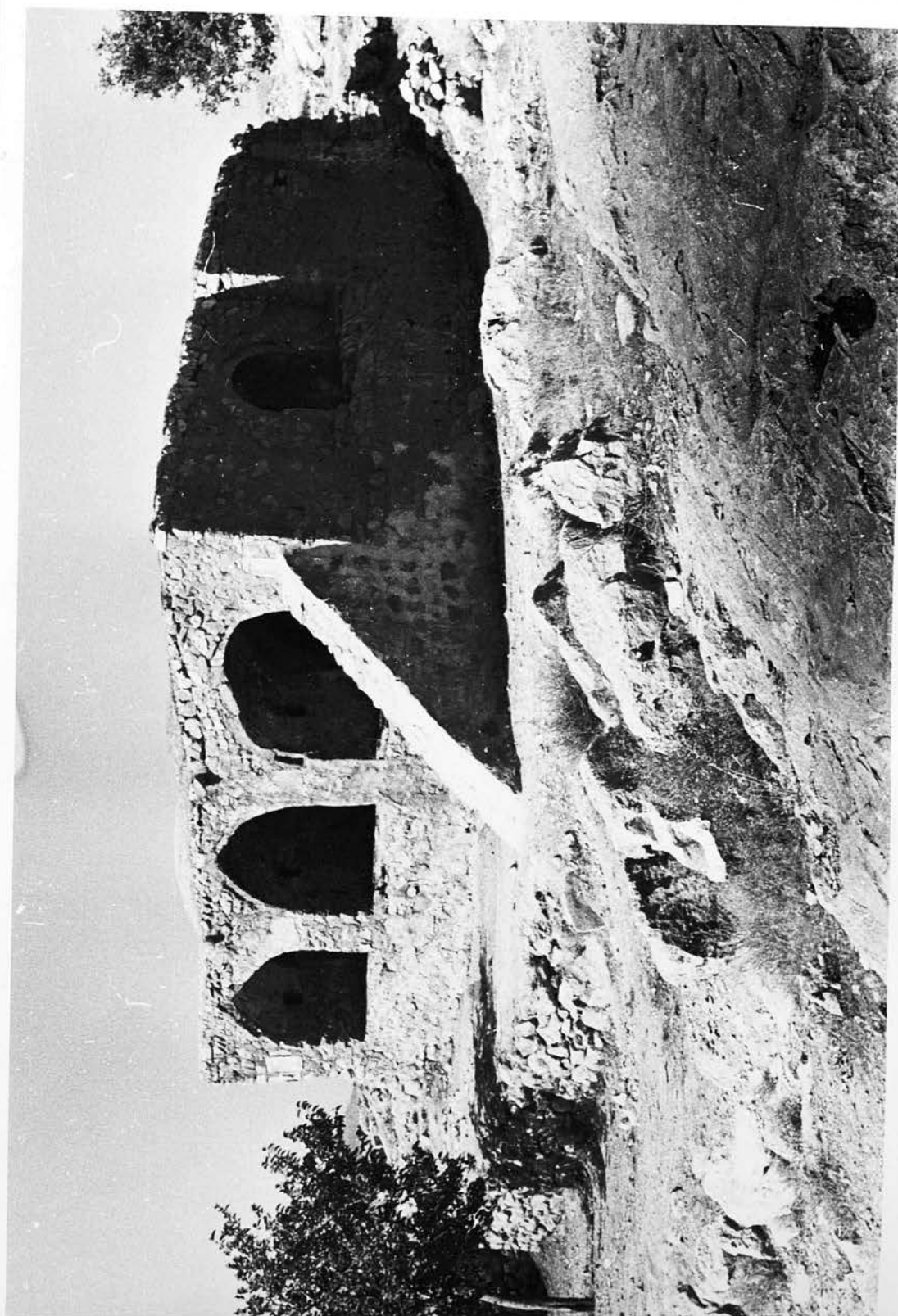
drum of a fluted column .



181-Bost, Afghanistan; Shāhzāde Sarbāz , marble elements collected on a tomb .



182-Shirāz, Iran-Chāh-e Morteżā 'Ali , ground level structure .



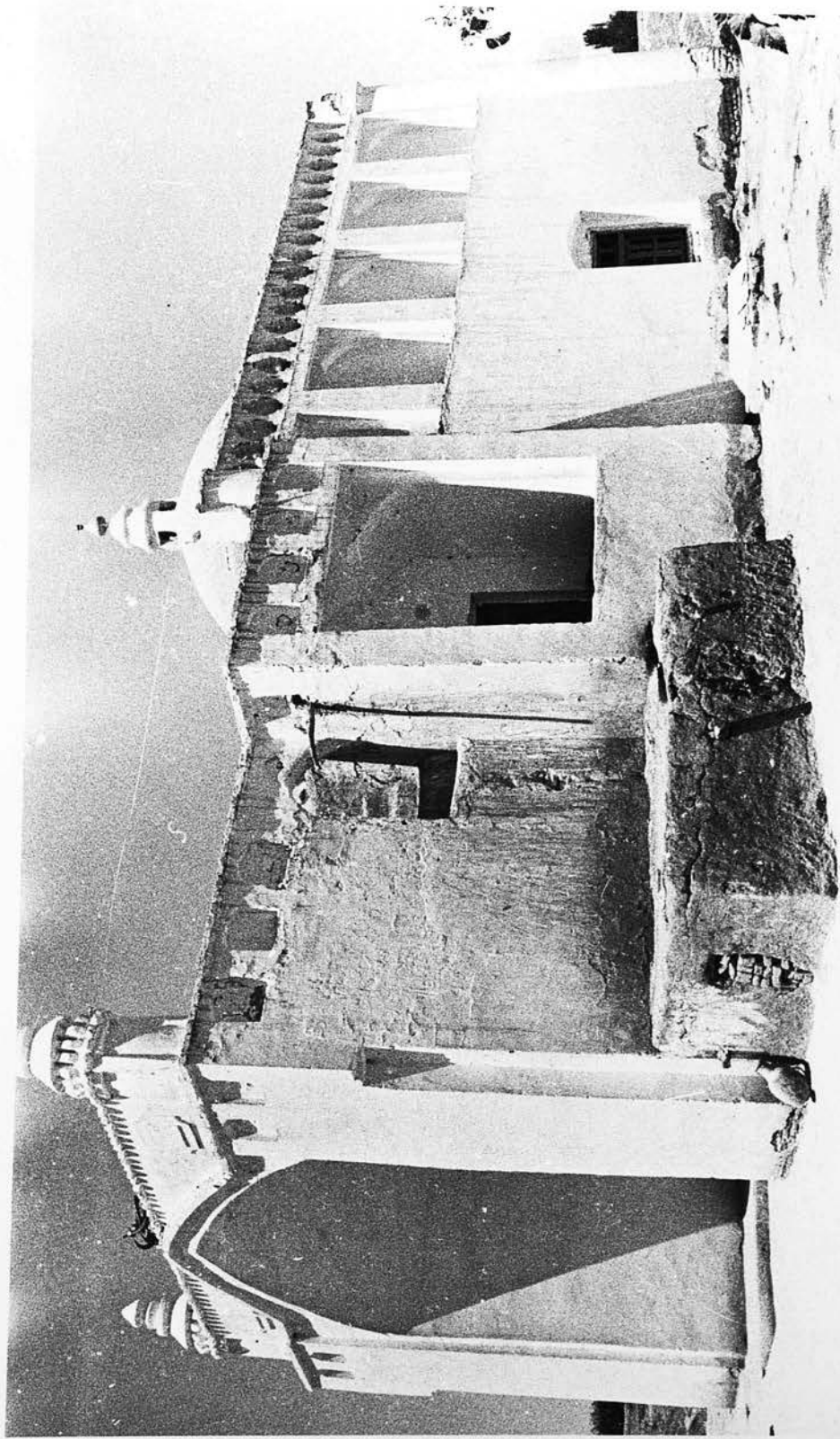
183-Shiraz, Iran- Chāh-e Morteżā 'Ali, ground level structure .



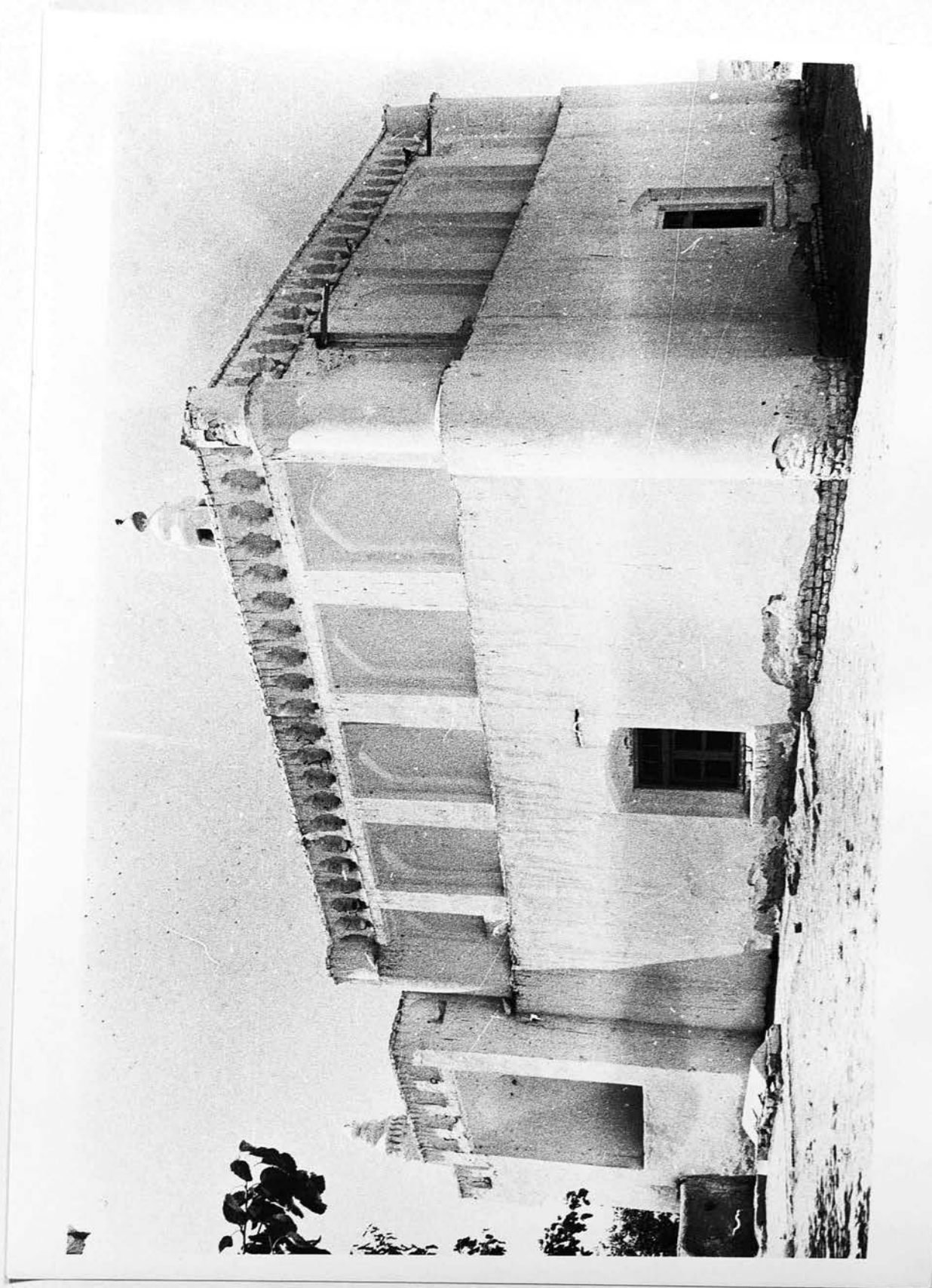
184-Shirāz, Iran-Chāh-e Morteżā 'Ali, ground level galleries .



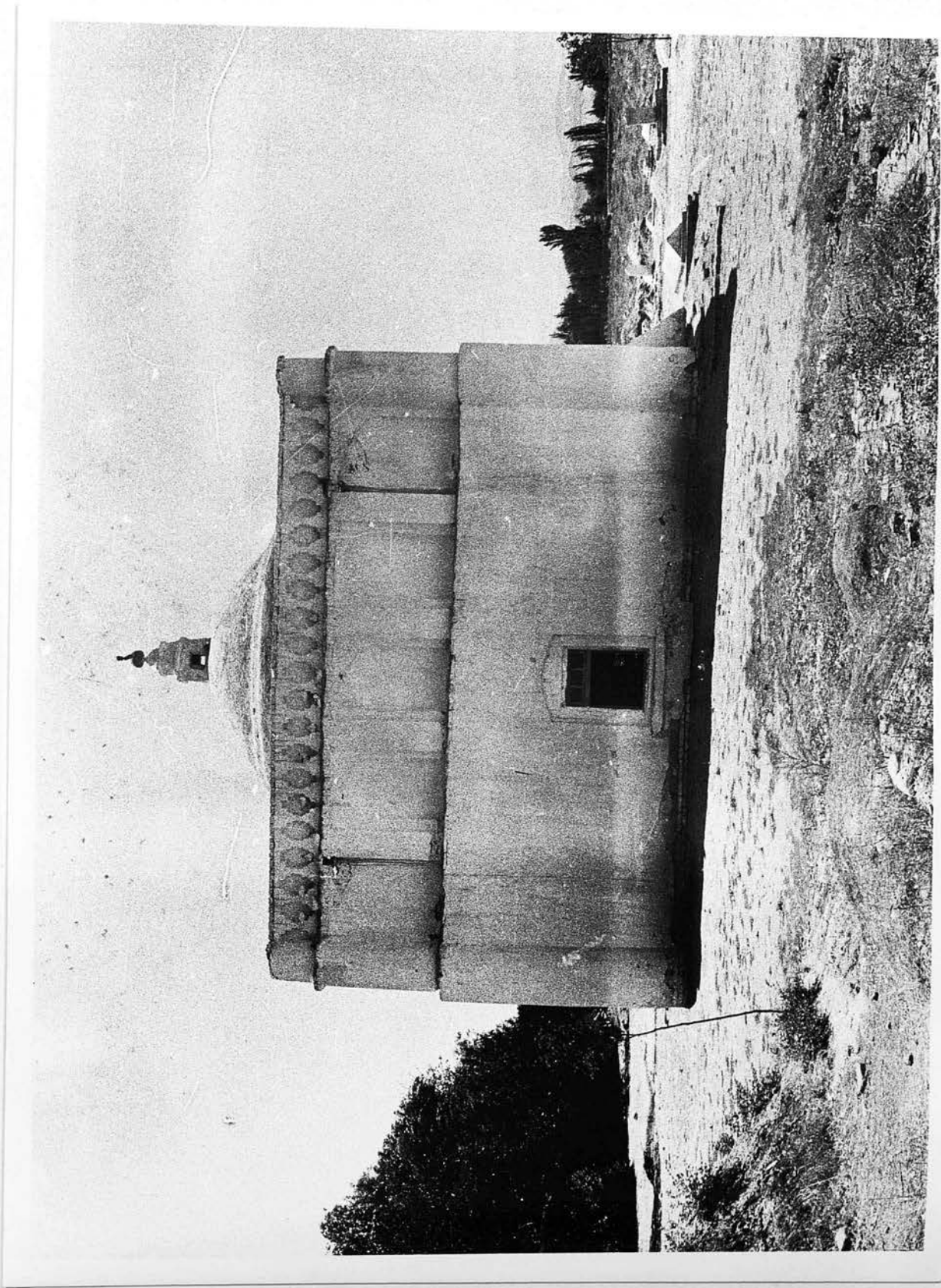
185-Shirāz, Iran-Chāh-e Morteżā 'Ali, part of under ground chambers.



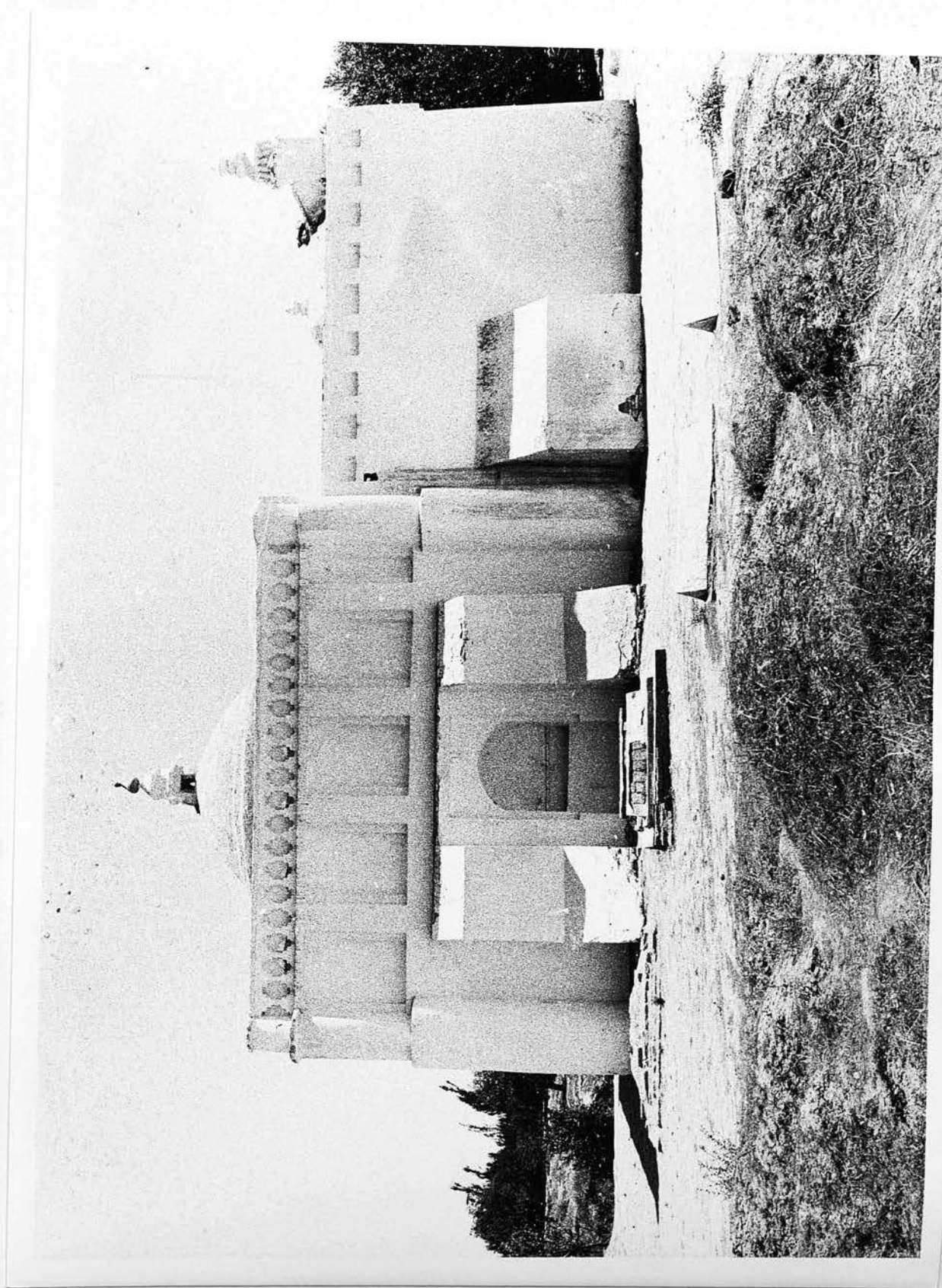
186-Sar-e Pol, Afghanistan, the shrine of Emām-e Kalān- View of the south east .



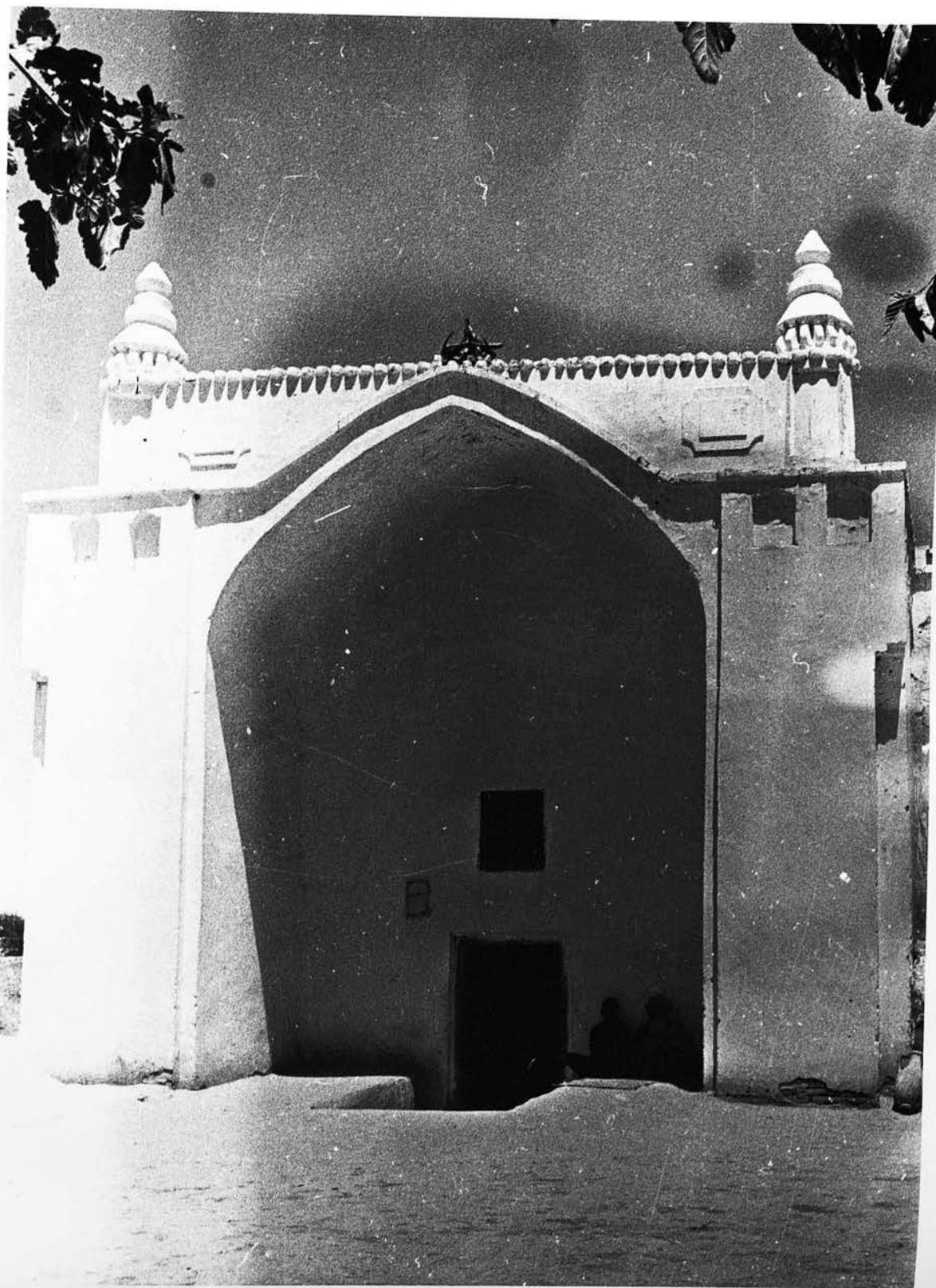
187-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-View of the north
st .



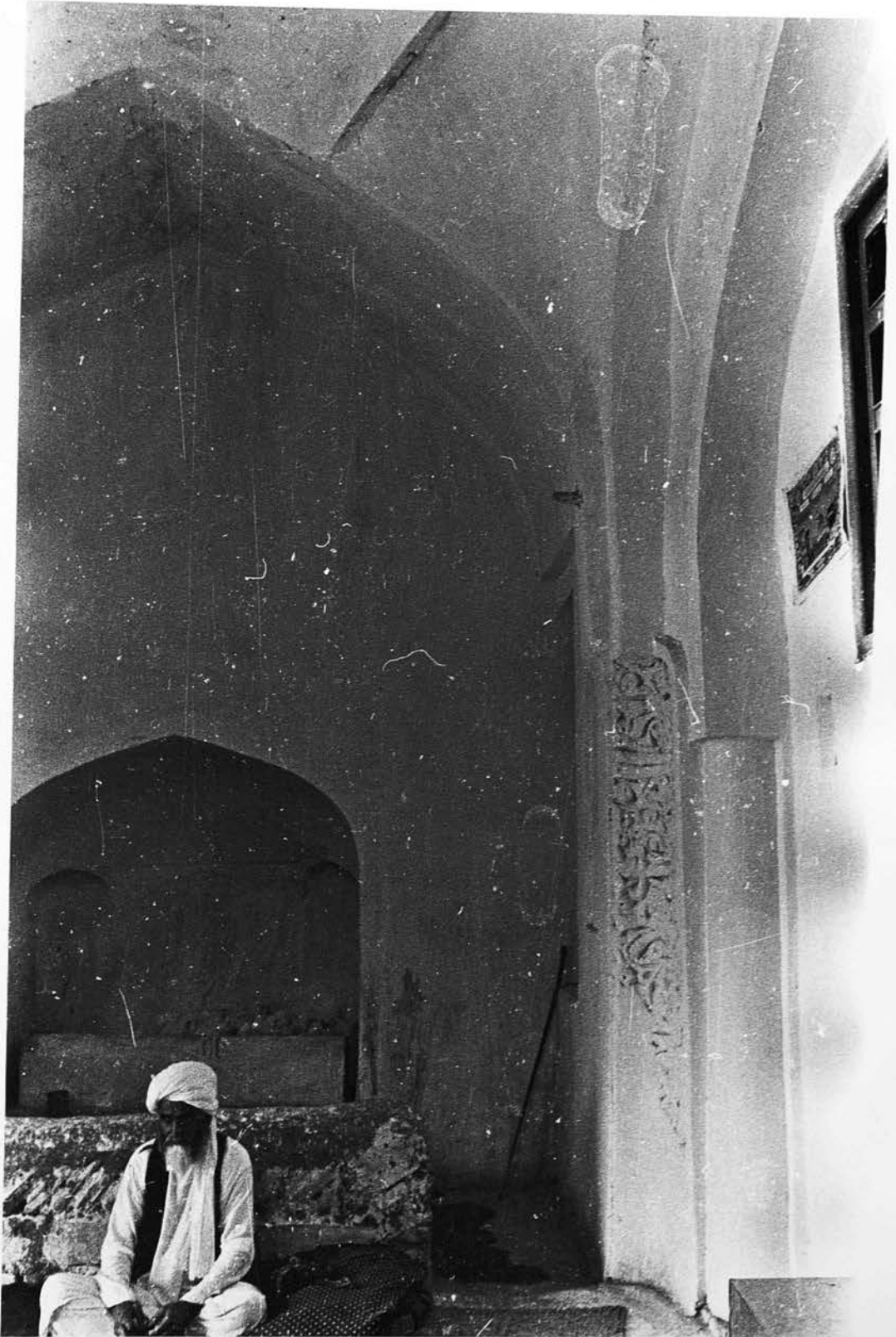
188-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Northern view .



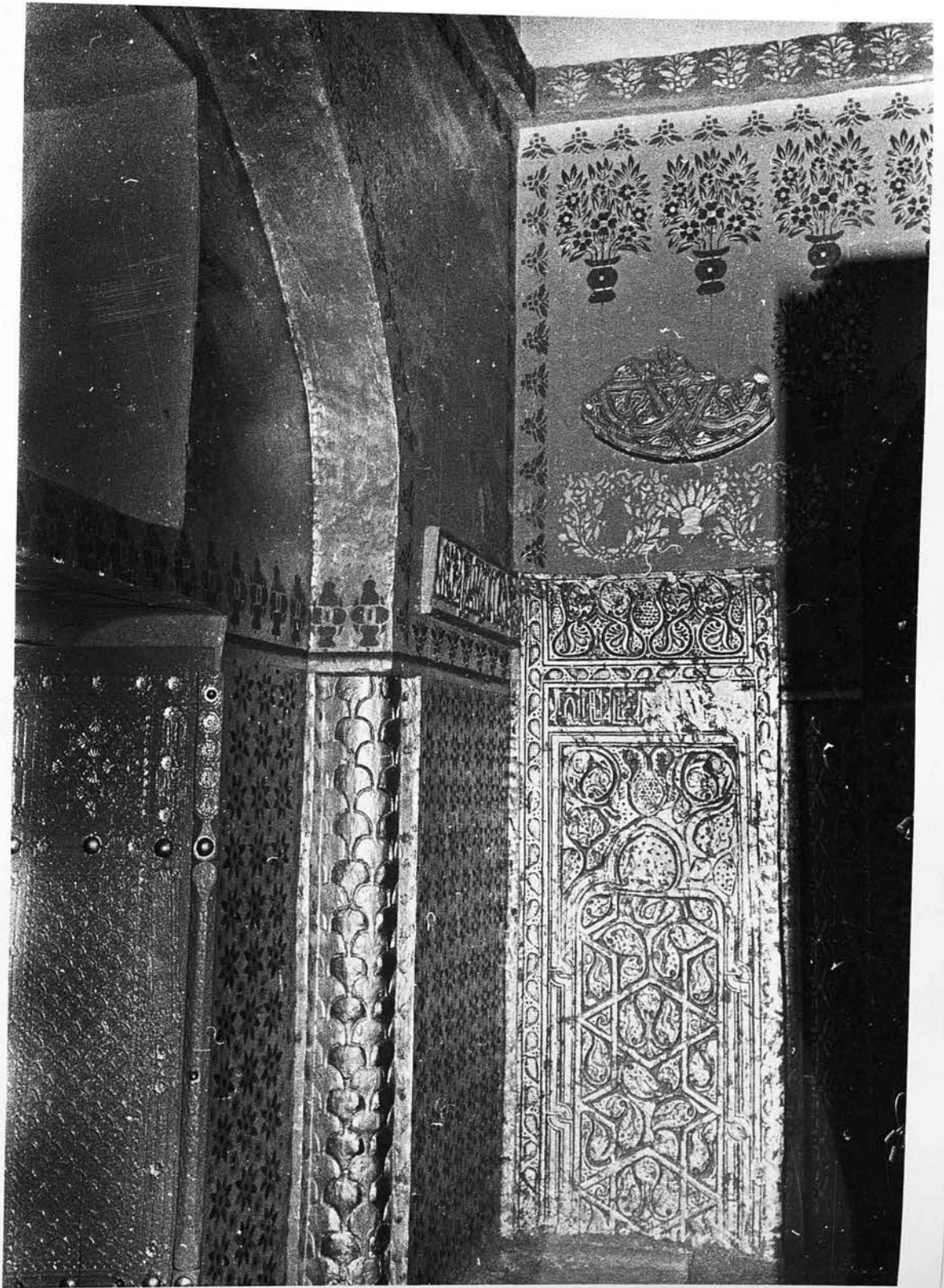
189-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān- Western view .



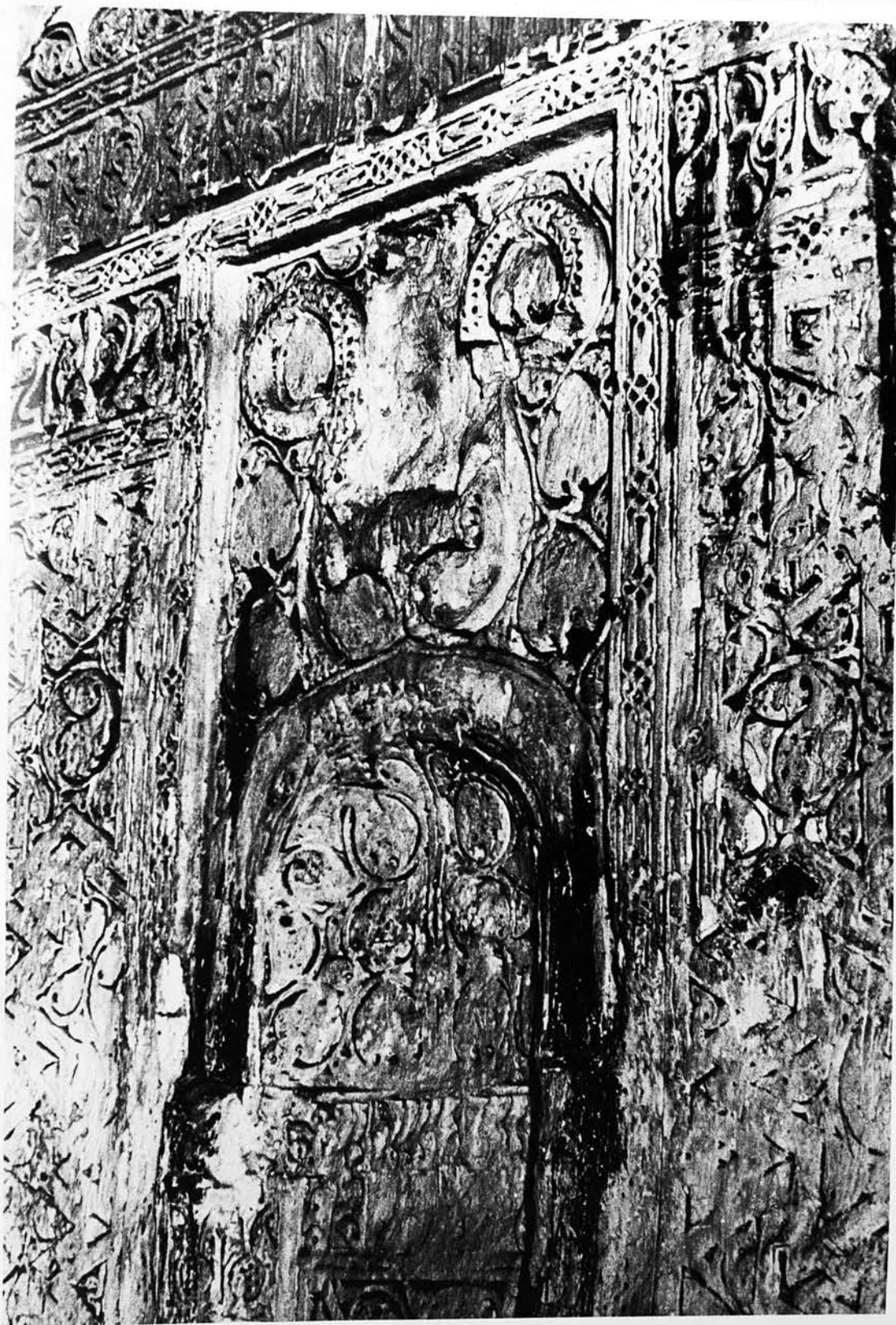
190-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Southern view .



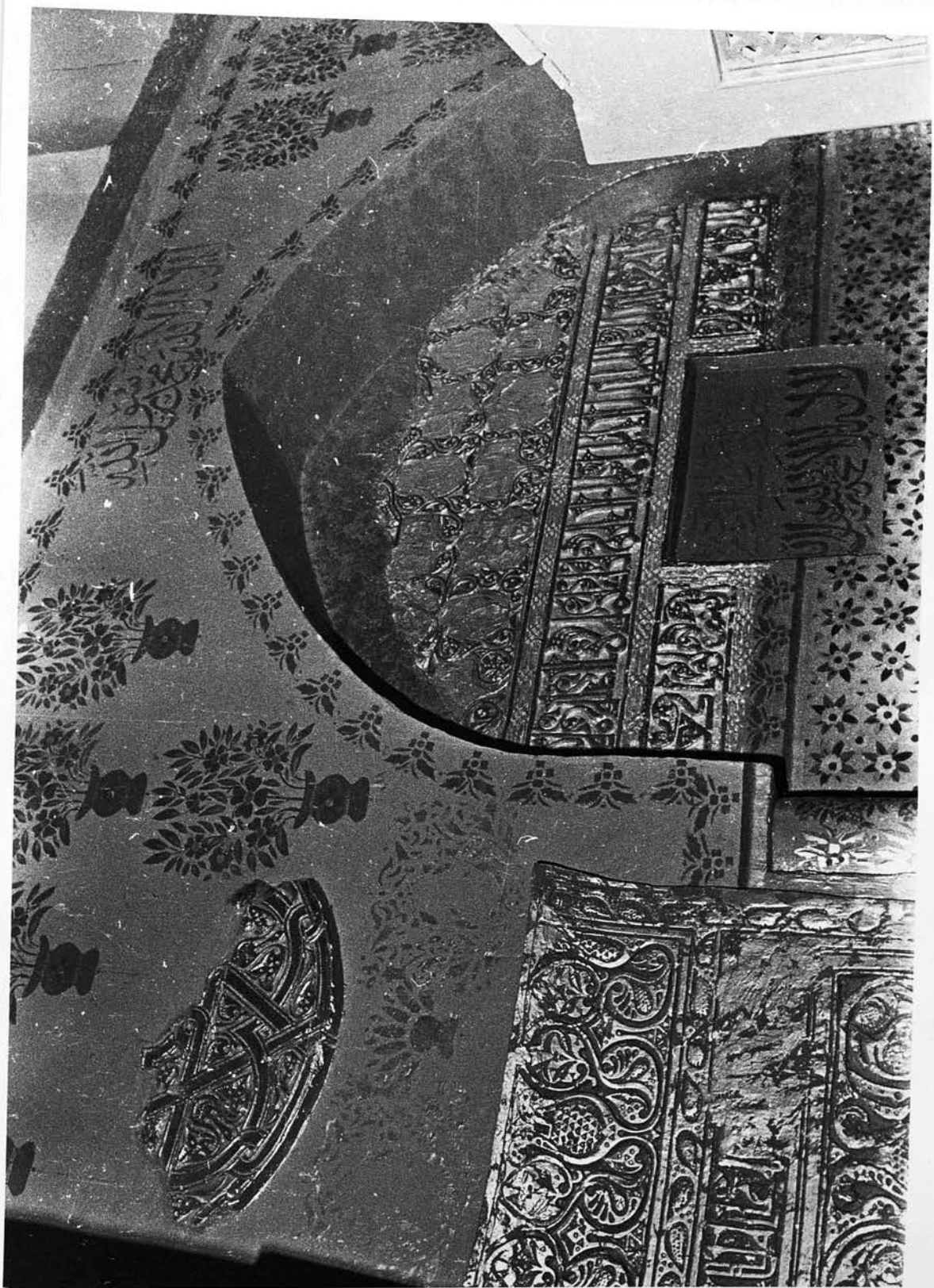
91- Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-View of the north
est of the antechamber showing the inscription of the original entrance .



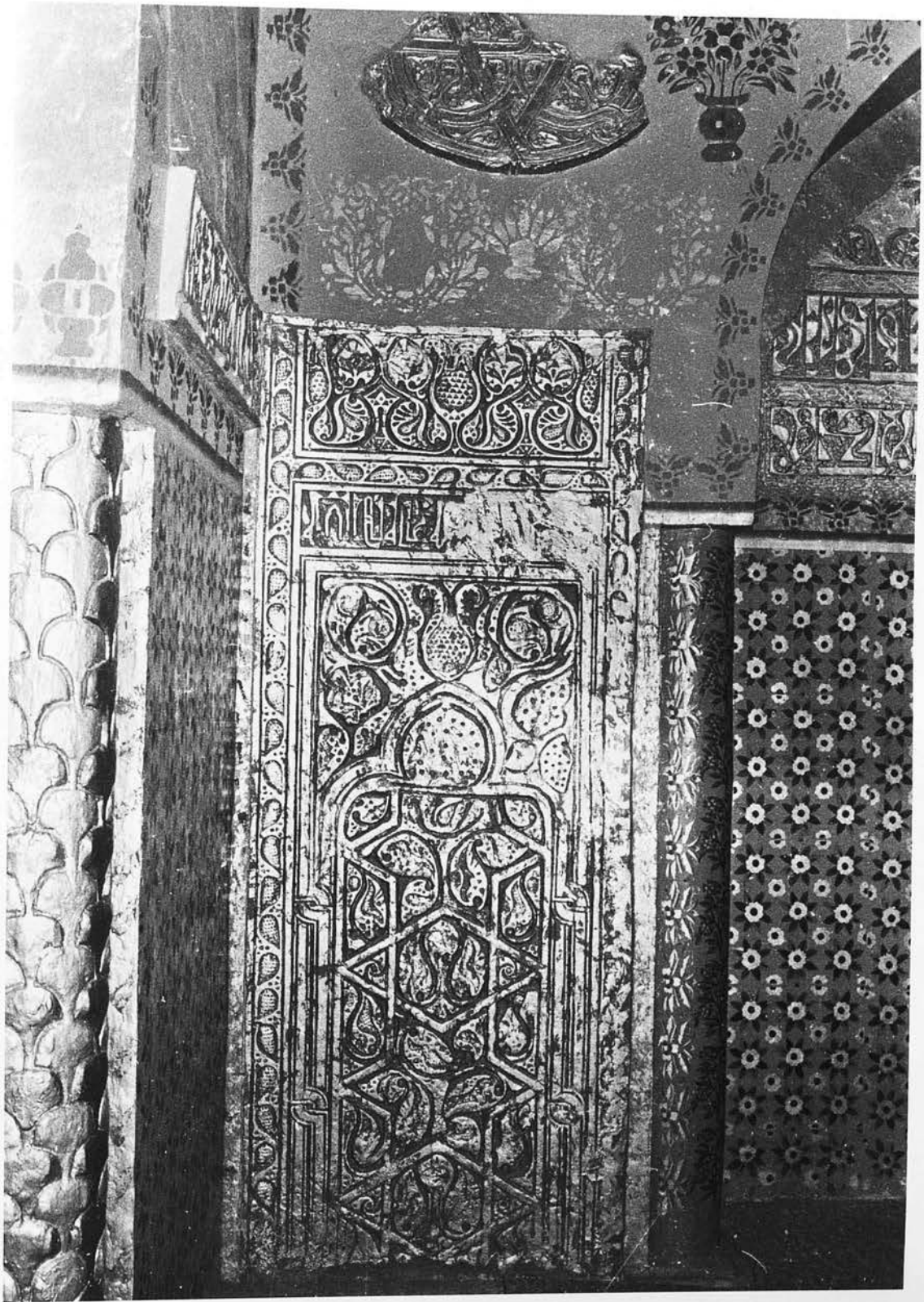
92-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān - South-west view of the sactuary showing the wooden door and stucco work .



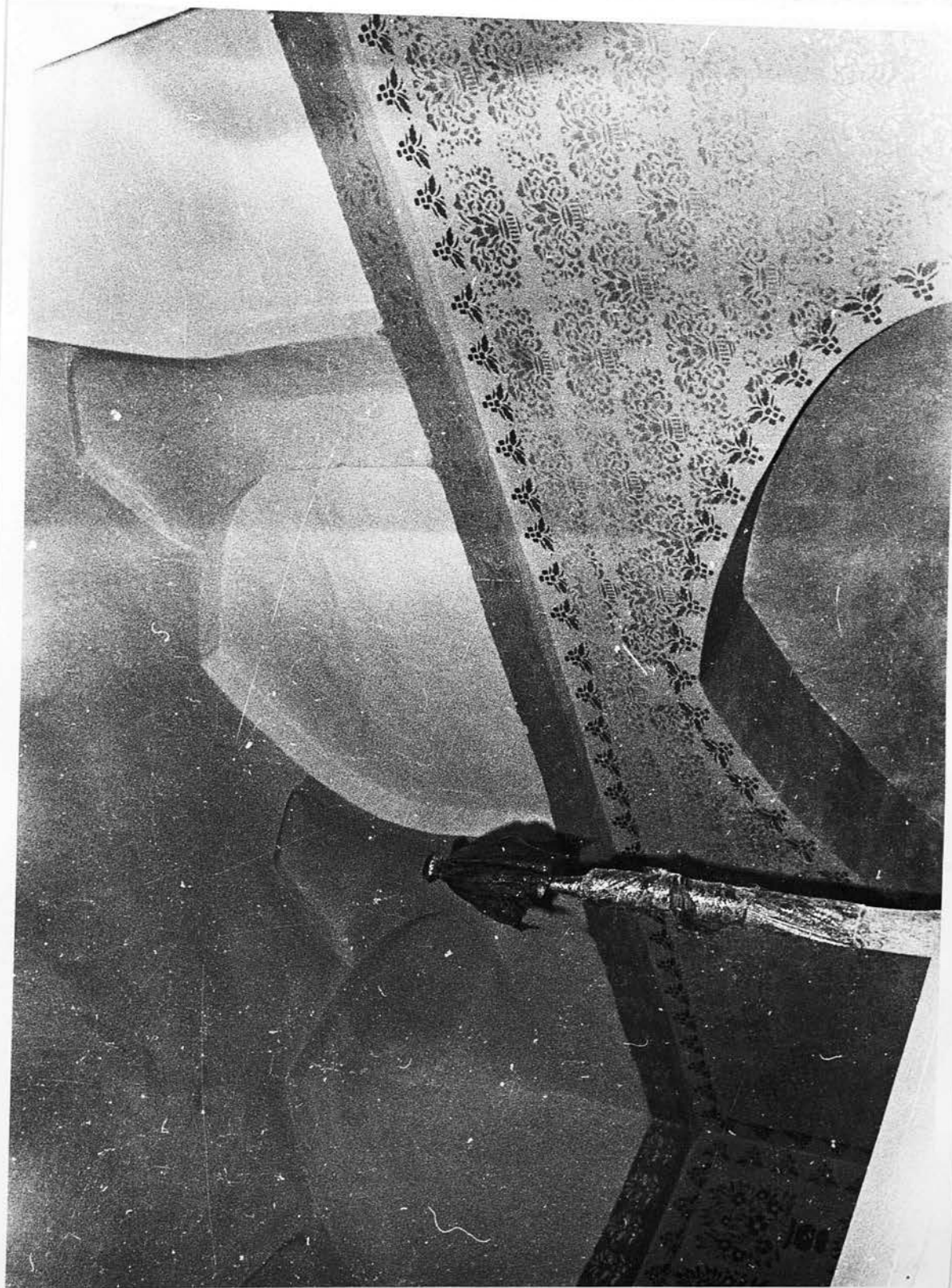
3-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-The mihrab, photo.
A.D.H. Bivar .



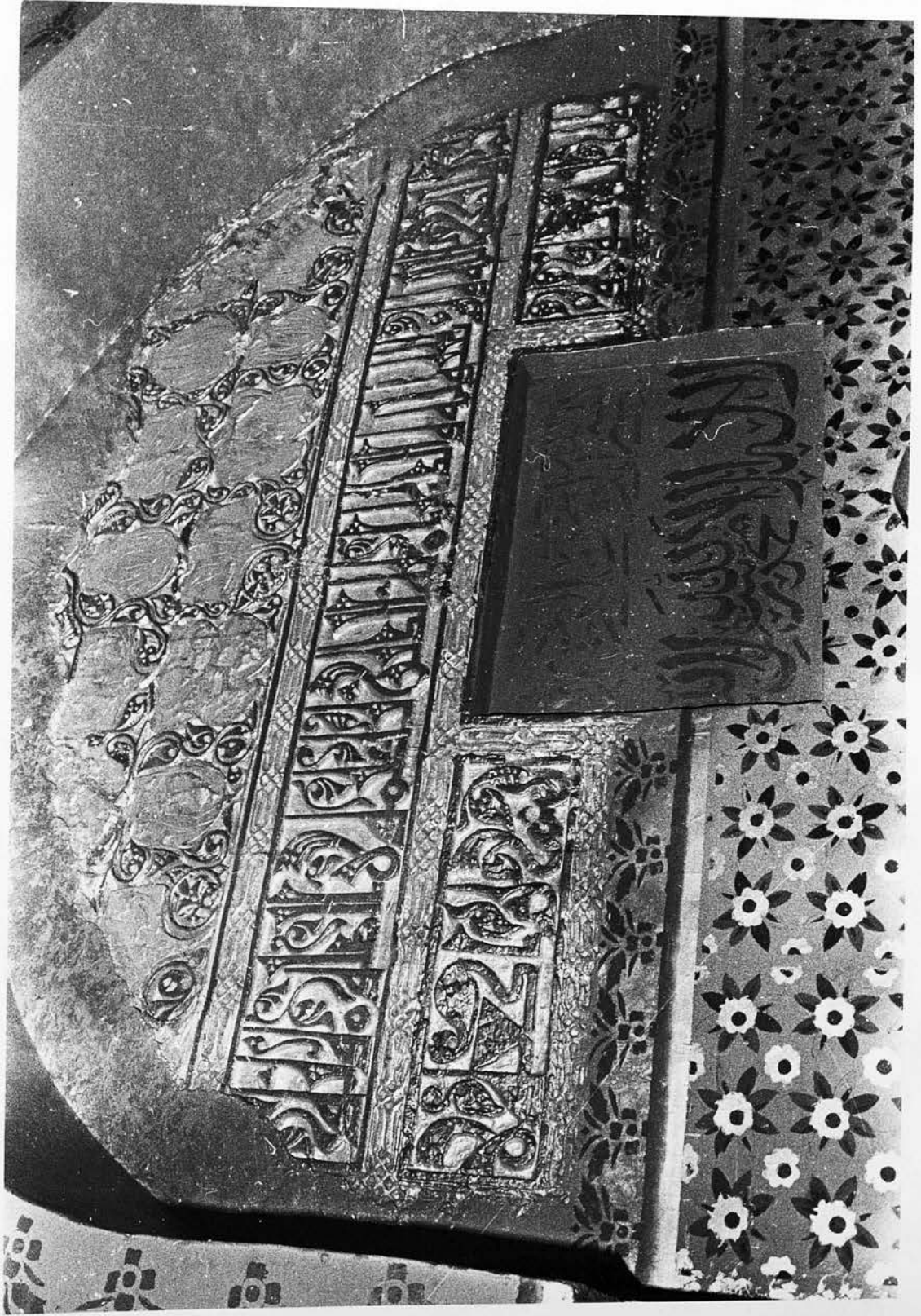
194-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Present situation of the mihrab .



195-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Stucco decoration at the south of the qeble wall .



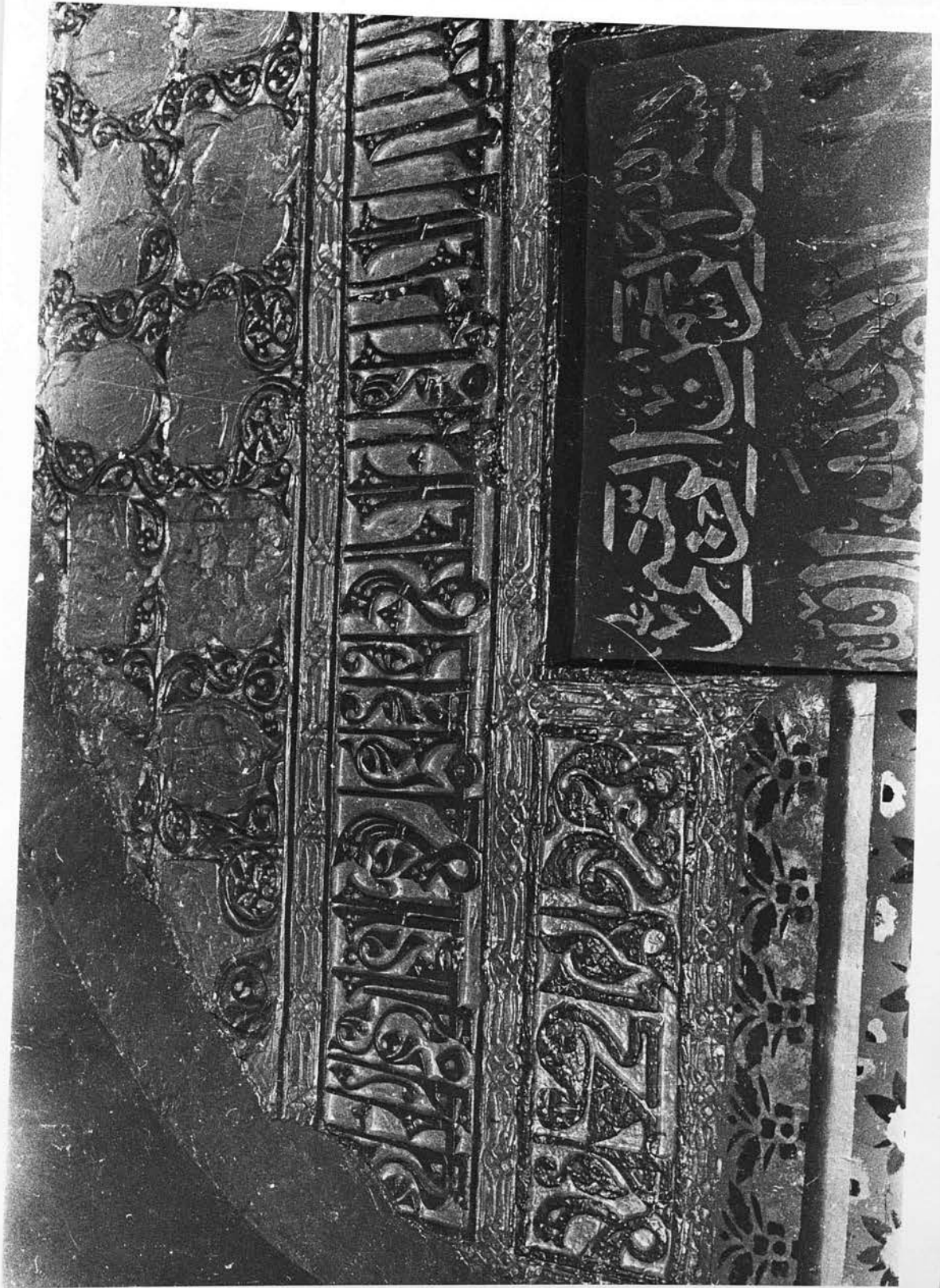
196-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Transition zone
of the dome .



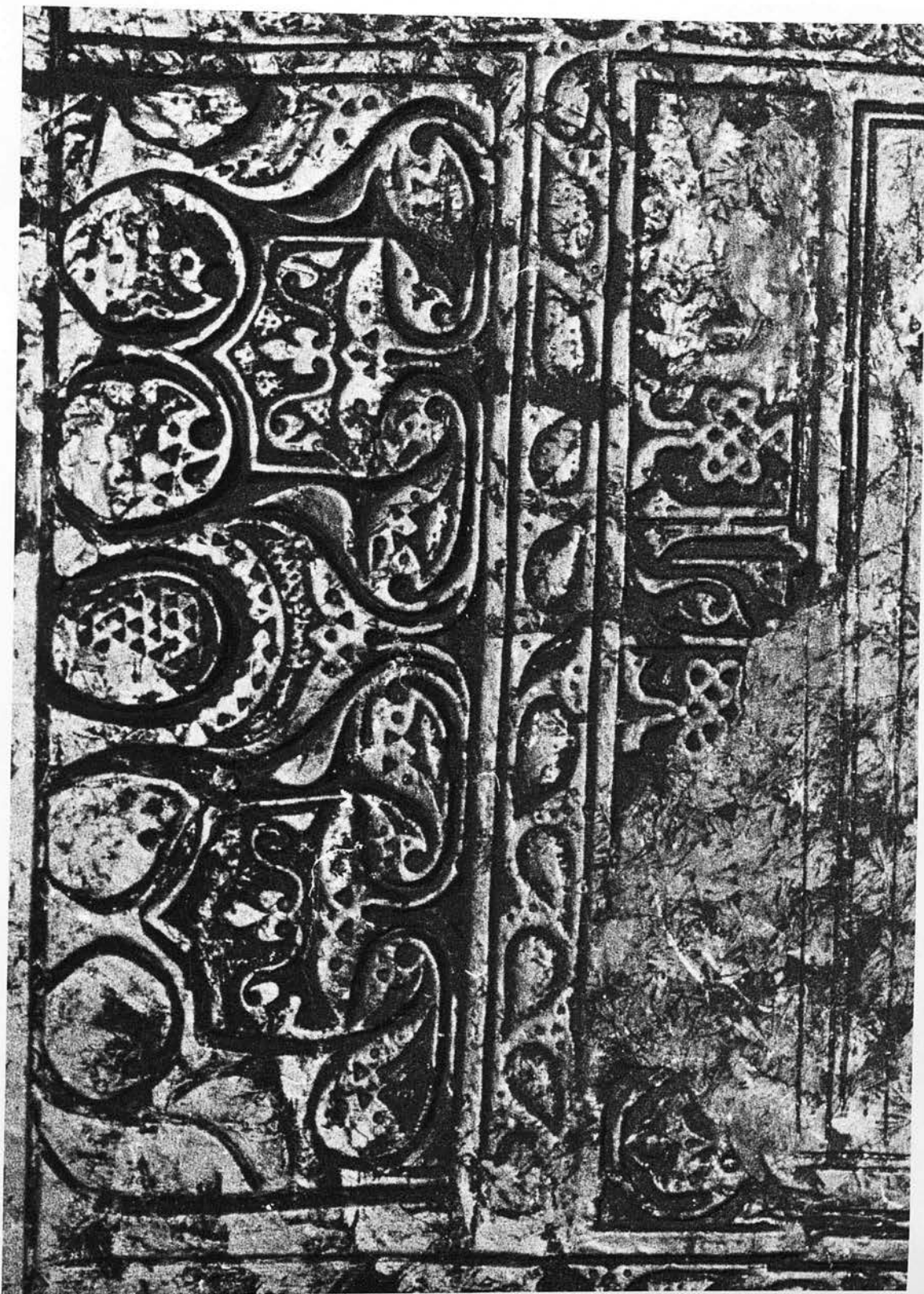
7-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Inscription above
the mihrab .



98-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Inscription,
the right side .



199-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Inscription, the left side .



200-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Inscription at the north side of the qeble wall .



201-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Inscription at the south side of the qeble wall .



202-Sar-e Pol, Afghanistan; the shrine of Imam-e Kalan-Inscription of the southern wall .



203 -Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Inscription at the right side of the original entrance .



204-Sar-e Pol, Afghanistan; the shrine of Emām-e Kalān-Inscription
at the left side of the original entrance , photo by A.D.H. Bivar .



205-Sar-e Pol, Afghanistan; The shrine of Emam-e Kalan-Inscription at the left side of the original entrance, present condition.



206-Sar-e Pol, Afghanistan; the shrine of Imam-e Kalan-An old lamp kept in the shrine .