

OBJECT RESEARCH



Alfred Stieglitz (American, 1864–1946)

## Georgia O'Keeffe

1918

Platinum print

Alfred Stieglitz Collection

**AIC accession number:** 1949.755

**Stieglitz Estate number:** OK 15A

**Inscriptions:** Unmarked recto; inscribed verso, upper center, in graphite: "11 [?]" ; verso, upper right, in graphite: "[one perpendicular line]" ; verso, upper right, in graphite: "11 visi [?] de [?]" ; verso, center, in graphite: "[scribbles]" ; verso, right center, in graphite: "[four perpendicular lines]" ; verso, left center, in graphite: "[one perpendicular line] K [?/backwards] / head [?] white [?] [two words crossed out/sideways]" ; verso, right center, in graphite: "Are [?] all"

**Dimensions:** 24.5 x 20.1 cm (image); 25.3 x 20.2 cm (paper)

**Print thickness:** 0.287 mm

**Surface sheen:** Low gloss (12.8 GU @ 85°)

**Paper tone:** L\*87.34, a\*3.5, b\*18.5

**Mount:** Original; with original presentation window mat

**Mount tone:** L\*89.5, a\*1.53, b\*10.41

**Ultraviolet-induced (UV) visible fluorescence (recto):** None

**X-ray fluorescence (XRF) spectrometry:**  
See below

**Fourier transform infrared (FTIR) spectrometry:**  
N/A

## TECHNICAL SUMMARY

This photograph is a platinum print. It is adhered at the top corners to its original cream mount and is engaged in the original window mat. The window masks the black margins of the print, which are the result of contact printing from the negative. The inscription “OK 15A,” at the bottom left corner of the original mount, correlates to the estate or “Leica” number that Georgia O’Keeffe and Doris Bry assigned to mounted prints from the same negative that were in Stieglitz’s possession at the time of his death. Also in graphite is an encircled “B,” which was used by Stieglitz during printing to characterize the quality of his prints.<sup>1</sup> When the surface of the print is viewed under high magnification, the fibers from the paper are visible and the image sits directly on the fibers, with no intermediary binder. The print does not fluoresce when exposed to long-wave UV radiation. Platinum, iron, and trace amounts of lead were detected using XRF spectrometry. Common to platinotypes, the residual presence of light-sensitive iron ions could be due to improper washing of the print after processing. The presence of lead could have two sources: while lead could have been used during fabrication of the photographic paper itself, it was also commonly used during the processing of platinum prints, to increase uniform development.

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<sup>1</sup> Sarah Greenough, *Alfred Stieglitz: The Key Set; The Alfred Stieglitz Collection of Photographs*, vol. 1 (Abrams, 2002), p. 13.

## X-RAY FLUORESCENCE (XRF) SPECTROMETRY

XRF spectral readings were taken from the recto of the work and from the mount when available. The elements listed below have been positively identified in the work; elements in bold have been attributed to the processing of the print.

Print: **Fe, Pt, Pb**

Mount: Ca, Fe, Zn

The graph below shows XRF spectra for three distinct measurement areas on the print: the darkest, maximum-density image area (Dmax, purple); the lightest, minimum-density image area (Dmin, green); and the mount, when available (orange). The background spectrum (gray) represents the characteristic contribution of the instrument itself as measured on a Teflon reference and is included in order to discount irrelevant elements from the print's signature. Elements were identified based on the presence of their characteristic peaks. Analysis was performed with a Bruker/Keymaster Tracer III-V+ energy-dispersive handheld XRF analyzer, equipped with changeable Ti and Al filters and a Rh transmission target. Measurements were taken for 120 or 180 LT at 40 kV and 10  $\mu$ A. The spectrum below illustrates the significant peaks for this print in the energy range from 3 to 13 keV.

Figure 1. (right)  
Locations of XRF measurements

Figure 2. (below)  
XRF spectra from the Dmax, Dmin, mount,  
and background signal produced by the  
analyzer.

