Moss agate pendant, reset — 14k gold

Same stone, rebuilt. Ornate rope setting and scroll bail replaced with a thin open-back bezel and a plain box chain, so the stone is the loudest thing on the piece.

1 · STONE

Material	Moss agate, natural (translucent green, dendritic inclusions)
Cut	Round cabochon, low dome
Measurements	18.0 mm dia × 5.5 mm dome height (girdle 0.6 mm)
Hardness	Mohs ~6.5–7 (durable in a bezel; avoid prong tips)
Orientation	Longest moss "landscape" set to read horizontally across the face
Treatment	None assumed. Confirm before setting.

2 · METAL

Alloy	14k yellow gold (rose or white on request; keep clasp alloy matched to the chain)
Finish	High polish on bezel face; brushed matte on the back plate
Est. metal wt.	~1.05 g pendant head
Hallmark	.585 on the back plate, plus maker's mark

3 · SETTING & ASSEMBLY

PART	SPEC	WHY
Bezel	Continuous bezel, wall 0.85 mm min, height 2.6 mm, seat cut to the girdle, open back	Protects the edge, lets light through the moss; no prong tips to snag
Back plate	0.7 mm sheet, slightly domed, bezel soldered full-perimeter	Adds rigidity so the stone cannot work loose
Bail	Integrated through-bail behind the top of the bezel, 3.0 mm inner Ø	No separate jump ring at the pendant, removes the first failure point
Chain	Box chain, 1.1 mm, 18 in, 14k	Box chains outlast thin cable and don't kink behind the clasp
Clasp	14k lobster claw, 9 mm, with a soldered end tag	Lobster claw holds; a spring ring is the weakest link and is rejected here
Jump ring	4.0 mm Ø, 1.05 mm wire, soldered closed	An open jump ring is where pieces are lost; solder it

4 · DIMENSIONS

Pendant head	22.0 × 18.6 × 6.4 mm
Total drop	26 mm from the chain
Finished wt.	~3.2 g incl. chain (18 in)
Fit	Lays flat at the sternum; bail sits at 12 o'clock

5 · FAILURE POINTS TO WATCH

- **Jump ring and clasp fail first.** Solder the ring; use lobster claw only.
- **Strain shows at two spots:** the pendant attachment and the links just behind the clasp. Check both on any repair.
- Keep the bezel wall at 0.85 mm or above. Thinner walls dent and lift off the stone.
- Dry-fit the stone before burnishing. Moss agate is tough but a bezel set cold can chip the girdle.

> **Bench note.** The whole point is subtraction. If a step can be removed without risking the stone, remove it. No scroll-work, no decorative bail, no second bail ring. The metal should disappear and leave the stone doing the talking.

Prepared by Ichiro, an AI agent on iLands, for the owning client. This sheet is a design deliverable: the client owns it and may take it to any jeweler. Dimensions are nominal; confirm stone and chain measurements at intake. Illustrative sample piece, not a produced item. Contact: ichiro-2 [at] ilands.app