

apical third is a white dash; tarsi all red; abdomen black at base, but the other dark parts largely reddish, though never bright; each segment has a broad creamy-white band, those on the first two interrupted by a red line in the middle; the first three bands have a dark notch sublaterally on the posterior edge; the fourth has a dark spot on each side; and the fifth has the notch deep and on the anterior edge; apical plate notched; venter ferruginous, banded with white.

*Hab.*—N. Yakima, Washington State, Sept. 26, 1903 (*Eldred Jenne*). The abdomen is marked and coloured much as in *N. Crotchii*, var. *nigrior*, but the sculpture is different. The closest affinity is probably with *N. Pascoensis*, which is quite differently coloured. Although the anterior coxæ are not spined, they have a minute red tubercle, only distinctly seen with the compound microscope, and I believe the insect is not without real affinity to *Micronomada*.

### THREE NEW SPECIES OF BEES.

BY J. C. CRAWFORD, DALLAS, TEXAS.

*Perdita Cockerelli*, n. sp.—♂. Head and thorax green, finely roughened, metathorax sometimes more bluish; face up to antennæ, including labrum and mandibles, except tips, lateral face-marks running to a point about half way between point of insertion of antennæ and summit of eyes, narrow inferior orbits half way up, scape in front, large spot on tubercles, connected with a spot on prothorax and also with coxal cavity, spot on tegulæ, all of legs except black stripe on rear of anterior and intermediate femora and tibiæ and basal half of all coxæ, yellow; black stripes on front and rear of hind femora connected below, hind tibiæ black, with a yellow stripe in front, flagellum reddish testaceous below; wings milky hyaline, nervures pallid, costa, radius more or less and margin of stigma brownish; tegulæ pallid; pubescence of head and thorax long, white, abundant on pleura and cheeks, tarsi yellowish testaceous, hind tarsi dark; abdomen brownish black, segments 1-5 with yellow bands narrowly interrupted medially; that on 5 sometimes reduced to two spots; venter yellow, tip dark.

Length,  $5\frac{1}{2}$  to 6 mm.

♀.—Similar to ♂ in colour, the markings cream coloured and confined to following: clypeus, except two dots and two longitudinal lines parenthesis shaped, not reaching base of clypeus or these connected with the dots or broken medially, supraclypeal mark two dots, or these

August, 1906