autoscale down can lead to max_pg_per_osd limit

we adjust pgp_num all the way down to the target, which can make osds hit the max_pgs_per_osd if it's going too far.

saw this on the lab cluster,

```
pool 4 'libvirt-pool' replicated size 3 min_size 2 crush_rule 0 object_hash rjenkins pg_num 3541 pg_num 12 pg_num_target 4 pgp_num_target 4 autoscale_mode on last_change 1096029 lfor 0/1096029/1096025 flags hashspool write_recent_for_promote 1 stripe_width 0 application libvirt
```
and on osd.69,

2019-03-16 18:27:06.104 7f0d5de25700 10 osd.69 1097345 handle_pg_create_info hit max pg, dropping
2019-03-16 18:27:06.104 7f0d5de25700 10 osd.69 1097345 handle_pg_create_info hit max pg, dropping
2019-03-16 18:27:06.112 7f0d5e626700 10 osd.69 1097345 handle_pg_create_info hit max pg, dropping
2019-03-16 18:27:06.112 7f0d5e626700 10 osd.69 1097345 handle_pg_create_info hit max pg, dropping

Related issues:
Copied to RADOS - Backport #39271: nautilus: autoscale down can lead to max_pg_per_osd limit added Resolved

History
#1 - 04/09/2019 10:17 PM - Sage Weil
- Status changed from 12 to Fix Under Review
- Backport set to nautilus

https://github.com/ceph/ceph/pull/27473

#2 - 04/12/2019 11:57 AM - Sage Weil
- Status changed from Fix Under Review to Pending Backport

#3 - 04/12/2019 12:04 PM - Nathan Cutler
- Copied to Backport #39271: nautilus: autoscale down can lead to max_pg_per_osd limit added

#4 - 04/16/2019 10:53 AM - Nathan Cutler
- Status changed from Pending Backport to Resolved