

QUERIES RESPECTING LODES.

FIRST SERIES.

1. What is the general direction of lodes in this parish?
2. How many feet in a fathom is their general underlie?
3. To which side do they underlie?
4. What is their average bigness?
5. What is the general direction of the cross-gossans and cross-flookans?
6. How many feet in a fathom is their general underlie?
7. On which side do they generally underlie?
8. What is their average bigness?
9. Do they generally heave the lodes?
10. If so, how far do they generally heave them?
11. Are the lodes generally heaved to the right?
12. In what cases are they not?
13. Are there any instances in this parish, of lodes started or heaved by slides, as in the Pink mine and North-downs? and in this case,

is the lode started by a gossan-slide or by a flookan-slide?

N. B. By a slide is meant, the intersection of a lode in its underlie; by a heave, the intersection of a lode in its course or run.

SECOND SERIES.

1. In computing the average bigness of the lodes, did you include the *caple* or not? If not, you are desired to state what difference this makes.

2. What are the particular circumstances of the case, in which lodes are not heaved as usual, to the right? I mean, what is the direction of the lode and cross-course so heaved, the side to which each underlies, and the degree of its underlie?

3. Is the heave greatest when the cross-course is big, or when it is small?

N. B. To avoid ambiguity, the comparison may be made between gossan and spar; courses of different breadths, and between these and flookans, which I believe are invariably small.

4. Is the heave greatest when the cross-course intersects the lode at a small angle, or when it intersects it at a great one?

5. Are the heaves usually greater or less in the *bottoms* than at *grass*? That is, does the heave occasion a difference in the underlie of the two segments of the lode; what is this difference, and what the circumstances which accompany it?

6. In the case of a heave, are the two corresponding parts of the lode at the same level, usually of an equal bigness, and filled with the same substances, or the contrary? In which latter case, you are requested to mention the most remarkable instances.

7. Do you know any instance of a lode being shattered, divided, or torn open by the intersection of a cross-course, or by a heave?

8. Do you know any instance of a lode being wholly cut off by a cross-course, so that no traces of it could be found on the opposite side?

9. Do you know any instances of the intersection of tin and copper lodes, and of heaves in consequence thereof?

10. Are there any regular courses or quarries of elvan, or any other sort of rock, in your parish, and what is their bigness, direction, and underlie?

11. Do you know any instance of such a course or quarry forming one of the walls of a lode?

12. Do you know any instance of such a course or quarry intersecting and heaving a lode? And if so, you are requested to state the circumstances.

13. Do you know any instances of great hollows found in the body or the sides of lodes?

14. Do you know of any instance of pebbles

or of fragments of killas, elvan, irestone, or growan, found in the body of a lode?

15. Do you know any instance of the two walls of a lode (the country) not corresponding at the same level; *i. e.* of their being composed of different rocks, perhaps on one side of killas, and on the other of *irestone, elvan, or growan*? Even the *killas* may be found to differ in hardness and colour in the two opposite walls.