

UNI – ILPA Homework#4, from session 4

40pts

Part 1 Place samples on a piece of labeled paper then take a photo and submit to the shared google drive folder - Photo 1 - Separate your minerals from rocks, Photo 2 - Name your minerals, Photo 3 - Name your rocks. (15 points)

Part 2 – Watch the Exploring resources from the Iowa Geological Survey short video, posted in April 5, Session 3 recording link on our webpage. The address the following questions

Publications <https://www.iuhr.uiowa.edu/igs/publications/search>

1. Use the search engine to look up what is available for the county you are most interested in...
 - a. Name your county (1 pt)
 - b. What is the date of the oldest and most recent publication? (2 pts)
 - c. Look through what is available themes, titles, take a bit of time and open a few of the available pdf. Write a short paragraph summarizing the time of information available and how these data link to the online content we have discussed (5 points)

GeoCore <https://www.iuhr.uiowa.edu/igs/geocore/home>

There are two ways to search for core data Map Search and Text base

1. A. Use Text search, In the WNumber/first entry type in 27271. Click on the link on the USGS letters, you are on the General tab... How deep is this core? What did the letters USGS stand for? (2)

B. Click on the Segments tab, click next on the bottom right, click on the left file icon for the interval 468 to 477 core section, click on the High-Resolution Picture link... Use some of the developing vocabulary and or concepts we have covered so far to describe what you are seeing... (3)

C. What major Cretaceous geologic event helped create this core? (2)

GeoSam <https://www.iuhr.uiowa.edu/igs/geosam/home>

This source has a lot of information, nearly every time a water well is drilled, data from that effort is recorded here... Click on the Map search, Find your county (either that you teach in OR are most interested in) and Zoom in closer toward your county, Keep zooming in until dots appear, those dots are well data, hover over the green dots and you will see who owns those wells, find one that interests you and click on the green dot... Play around with this some wells will have A LOT of info. Some will have less

2. Write about one that you think is the most interesting, what is the W# for this well? What did you learn about the geology of that well? (5)

GeoLab – <https://www.iuhr.uiowa.edu/igs/geolab/home> This resource is developing; state-wide coverage is slowly improving...

3. Click on a few of the Red dots in Northwest Iowa, what types of information is available? (5)