RED LODGE DRILLING INVESTIGATION

MONTANA DEPARTMENT OF ENVIRONMENTAL QUALITY, ABANDONED MINE LANDS DIVISION

Bill Snoddy – Project Manager at DEQ

PIONEER TECHNICAL SERVICES, INC.

Tim Ranf – Project Manager at Pioneer
Work Ongoing this year (since January):

- Survey and Monitoring of 3 residences:
  - 501 Broadway
  - 505 Platt
  - 404 S. Broadway
- Established survey monitoring points and control, crack gauges.
- Monitoring quarterly to determine if active settlement is occurring. Next event – July.
- No settlement measured to date (January & April).

- Additional House to be added at 207 S. Hauser
RED LODGE MONITORING LOCATIONS

LEGEND
- Primary Control Station
  Existing Fire Hydrants or NGS Benchmark
- Secondary Control Station
  #6x36" rebar and 2-1/2" alum. cap

FIGURE 1
MONITORING POINT LOCATIONS
OBJECTIVE – Determine whether historic underground coal mines have any potential for causing (or have caused) ground subsidence.

- In response to concerns from several citizens.
- Based on previous investigations and historic mine maps, the mine workings are very deep – 250- to 900-feet below the ground surface in this area.

Outcome from the drilling investigation and survey monitoring will be used to determine whether or not ground subsidence has or could occur as a result of collapsing underground mine workings.
RED LODGE DRILLING INVESTIGATION
MINE WORKINGS VIEW
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- **SCHEDULE**
  - Requests for Bids for drilling contractor currently out.
  - Select Drillers July 1
  - Start Drilling August 4
    - Drilling activities 8 AM to 6 PM Monday – Saturday
    - Possibly have two drill rigs operating simultaneously for a couple weeks
  - Drilling complete September 26
  - Final Report December 22