COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT

POST-LONGWALL MINING GAS WELL ASSESSMENT INSTRUCTIONS (Unconventional Operations Only)

GENERAL INFORMATION

The following instructions are designed to assist the applicant in properly completing the *Post-Longwall Mining Gas Well Assessment* form. Additional information regarding the completion of this form can be found in the Department of Environmental Protection's (DEP) *Guidelines for Chain Pillar Development and Longwall Mining Adjacent to Unconventional Wells* Technical Guidance No. 800-0810-004. Pursuant to section 3224 of the 2012 Oil and Gas Act (58 Pa. C.S. sections 3201-3274), a coal operator intending to mine within 500 feet of an oil or gas well must notify the well operator or owner, and DEP of the proximity of mining to the well and propose a plan to leave a coal pillar or block in place to protect the well. Pursuant to section 12.1(b)(1) and (2) of the Coal and Gas Resource Coordination Act *(58 P.S. sections 501-518)*, the pillar must ensure that well integrity in pillar locations is sufficient to provide protection of the workable coal seam and coal miners based on criteria and standards applied by DEP.

INSTRUCTIONS

Provide the mine permit number, mine name, coal operator, and well operator. Next, enter the US Well Number or API number assigned to the well using the following format: CCC-XXXXX. CCC represents the three-digit county code and XXXXX represents the unique 5-digit county ID. Enter the name of the mined seam and the depth of cover, in feet to the top of the mined seam. Provide the pillar dimensions in the longitudinal (X) direction, or parallel to the longest dimension of the mine panel; and perpendicular to the longitudinal direction (Y), in feet.

Enter the maximum setbacks, in feet, between the well within the pillar and the perimeter of the pillar. These setbacks should be in the longitudinal direction (X1 and X2) and in the orientation perpendicular to the longitudinal direction (Y1 and Y2). Next, provide the measured cement top for the well's production annulus, in feet below ground surface. For a production casing that is cemented to surface, enter 0.

In the next section of the form, the operator should enter information to help characterize any measured deformation associated with the well's production casing. First, enter the maximum and minimum extent of measured deformation, in inches. Next, provide the depth to the maximum measured deformation, in feet below ground surface. Fill in the orientation of the maximum deformation and the longitudinal orientation of the removed abutting longwall panel, in azimuth (0 to 359º). Finally, enter the average deformation over the deformed interval, in offset feet; and the length of the deformed interval, in feet. The offset measurement should be calculated by comparing pre- and post-wellbore directional survey measurements.

Provide the lithology associated with the interval of the production casing that experienced the maximum deformation. Also provide the nearest abutting lithologies above and below this interval. Lithologies should include standard terms: sandstone, siltstone, shale, limestone, dolomite, and coal.

Indicate whether or not the production casing failed the pressure test requirements of 25 Pa Code 78a.84(f) (no more than 10% leak-off over a 30-minute test interval) by entering "Y" or "N." If the casing failed the pressure test and an attempt was made to subsequently remediate the well under the provisions of 25 Pa Code 78a.86, indicate the outcome of the remediation: "Y" for successful remediation and "N" for failed remediation. If the production casing passed the pressure test, input "NA" in this field. Finally, provide the average pressure test leak-off rate, in pounds per square inch (psi) per minute, and indicate if well mechanical and electrical logging information is available.

The comments column is optional and provided for additional information that the operator may wish to include.