



ILLINOIS DEPARTMENT OF NATURAL RESOURCES

Office of Oil and Gas Resource Management
One Natural Resources Way Springfield, Illinois 62702-1271



HIGH VOLUME HORIZONTAL HYDRAULIC FRACTURING PERMIT APPLICATION HVHFF-10

References to "1-xx" or "§1-xx" are to the Hydraulic Fracturing Regulatory Act., 225 ILCS 732/1-1 et seq. References to "240.xxx" and "245.xxx" are to 62 Ill. Admin. Code 240 and 245, respectively

Attachment: CasingandCementingPlan

Please save attachment and use the file name above.

Casing and Cementing Plan §1-35(b)(14); 245.210(a)(14), 245.530, 245.560, 245.570.

NOTE: review 245.530, 245.560 and 245.570, surface casing requirements, intermediate casing requirements, and production casing requirements.

Describe the casing and cementing practices to be employed, including, at minimum,

- (a) The casing and cementing practices used
- (b) The size of each string of pipe
- (c) The starting point
- (d) The depth to which each string is to be set, and
- (e) The extent to which each string is cemented
- (f) If any part of the well or well site is in an area identified by the U.S. Geological Service as having a 2% or greater probability of exceedance in 50 years of peak ground acceleration of 0.4 standard gravity or more, identify measures you will take to protect the components in this plan against earthquakes of M4.5 or more.