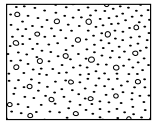


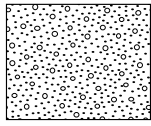
### 37—LITHOLOGIC PATTERNS

[Lithologic patterns are usually reserved for use on stratigraphic columns, sections, or charts]

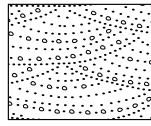
#### 37.1—Sedimentary-rock lithologic patterns



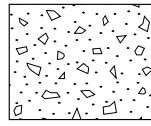
**601**  
 Gravel or conglomerate  
 (1st option)



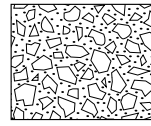
**602**  
 Gravel or conglomerate  
 (2nd option)



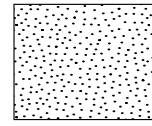
**603**  
 Crossbedded gravel or conglomerate



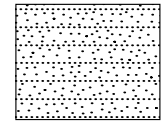
**605**  
 Breccia (1st option)



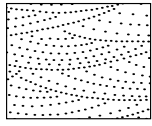
**606**  
 Breccia (2nd option)



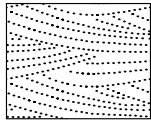
**607**  
 Massive sand or sandstone



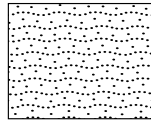
**608**  
 Bedded sand or sandstone



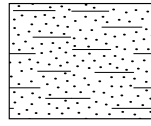
**609**  
 Crossbedded sand or sandstone  
 (1st option)



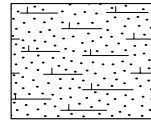
**610**  
 Crossbedded sand or sandstone  
 (2nd option)



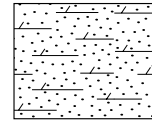
**611**  
 Ripple-bedded sand or sandstone



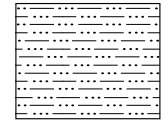
**612**  
 Argillaceous or shaly sandstone



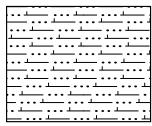
**613**  
 Calcareous sandstone



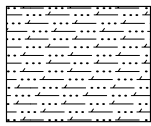
**614**  
 Dolomitic sandstone



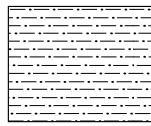
**616**  
 Silt, siltstone,  
 or shaly silt



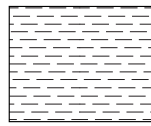
**617**  
 Calcareous siltstone



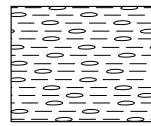
**618**  
 Dolomitic siltstone



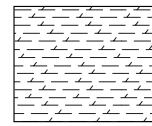
**619**  
 Sandy or silty shale



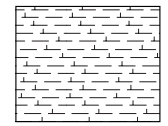
**620**  
 Clay or clay shale



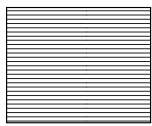
**621**  
 Cherty shale



**622**  
 Dolomitic shale



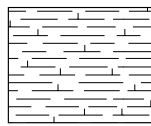
**623**  
 Calcareous shale or marl



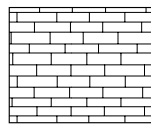
**624**  
 Carbonaceous shale



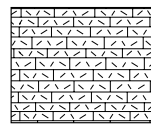
**625**  
 Oil shale



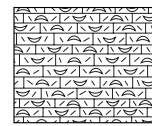
**626**  
 Chalk



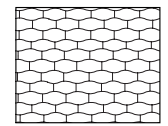
**627**  
 Limestone



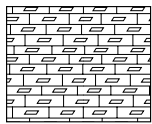
**628**  
 Clastic limestone



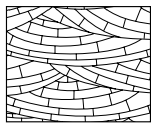
**629**  
 Fossiliferous clastic limestone



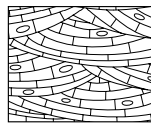
**630**  
 Nodular or irregularly bedded limestone



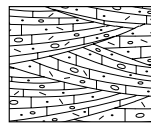
**631**  
 Limestone, irregular (burrow?) fillings of saccharoidal dolomite



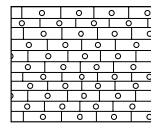
**632**  
 Crossbedded limestone



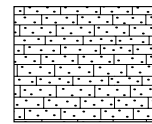
**633**  
 Cherty crossbedded limestone



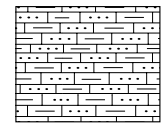
**634**  
 Cherty and sandy crossbedded clastic limestone



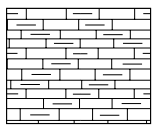
**635**  
 Oolitic limestone



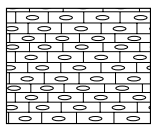
**636**  
 Sandy limestone



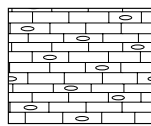
**637**  
 Silty limestone



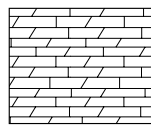
**638**  
 Argillaceous or shaly limestone



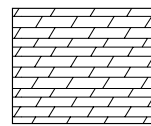
**639**  
 Cherty limestone  
 (1st option)



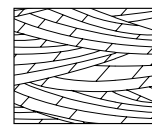
**640**  
 Cherty limestone  
 (2nd option)



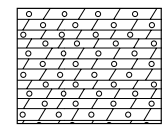
**641**  
 Dolomitic limestone,  
 limy dolomite, or  
 limy dolomite



**642**  
 Dolostone or dolomite



**643**  
 Crossbedded dolostone or dolomite



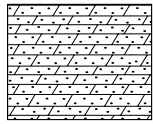
**644**  
 Oolitic dolostone or dolomite

\*For more information, see general guidelines on pages A-i to A-v.

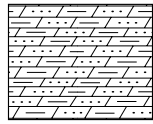
**37—LITHOLOGIC PATTERNS (continued)**

[Lithologic patterns are usually reserved for use on stratigraphic columns, sections, or charts]

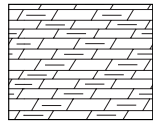
**37.1—Sedimentary-rock lithologic patterns (continued)**



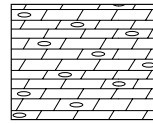
**645**  
Sandy dolostone  
or dolomite



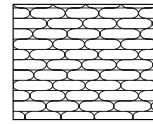
**646**  
Silty dolostone  
or dolomite



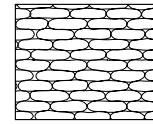
**647**  
Argillaceous or  
shaly dolostone  
or dolomite



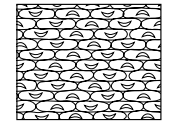
**648**  
Cherty dolostone  
or dolomite



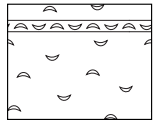
**649**  
Bedded chert  
(1st option)



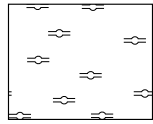
**650**  
Bedded chert  
(2nd option)



**651**  
Fossiliferous  
bedded chert



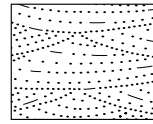
**652**  
Fossiliferous rock



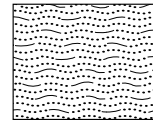
**653**  
Diatomaceous  
rock



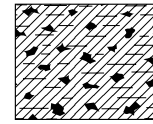
**654**  
Subgraywacke



**655**  
Crossbedded  
subgraywacke



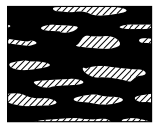
**656**  
Ripple-bedded  
subgraywacke



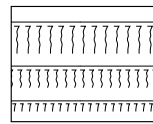
**657**  
Peat



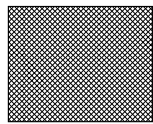
**658**  
Coal



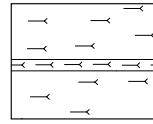
**659**  
Bony coal or  
impure coal



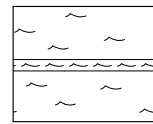
**660**  
Underclay



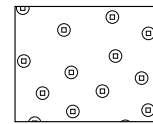
**661**  
Flint clay



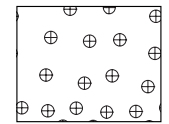
**662**  
Bentonite



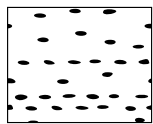
**663**  
Glauconite



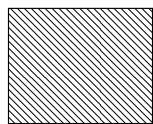
**664**  
Limonite



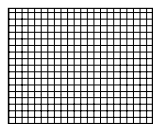
**665**  
Siderite



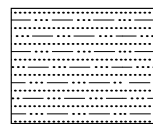
**666**  
Phosphatic-nodular  
rock



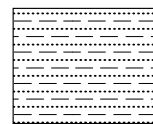
**667**  
Gypsum



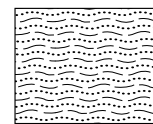
**668**  
Salt



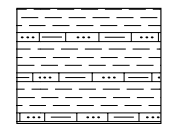
**669**  
Interbedded  
sandstone and  
siltstone



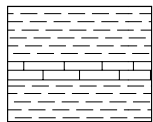
**670**  
Interbedded  
sandstone and  
shale



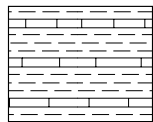
**671**  
Interbedded ripple-  
bedded sandstone  
and shale



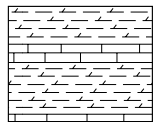
**672**  
Interbedded shale  
and silty limestone  
(shale dominant)



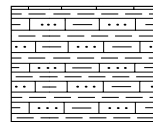
**673**  
Interbedded shale  
and limestone  
(shale dominant)  
(1st option)



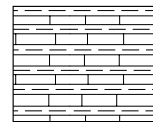
**674**  
Interbedded shale  
and limestone  
(shale dominant)  
(2nd option)



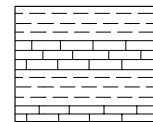
**675**  
Interbedded calcareous  
shale and limestone  
(shale dominant)



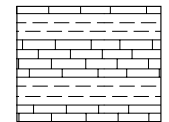
**676**  
Interbedded  
silty limestone  
and shale



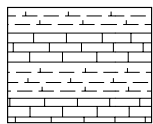
**677**  
Interbedded  
limestone and  
shale (1st option)



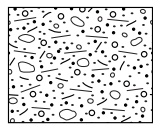
**678**  
Interbedded  
limestone and  
shale (2nd option)



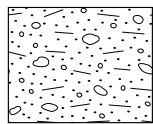
**679**  
Interbedded  
limestone and shale  
(limestone dominant)



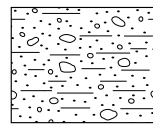
**680**  
Interbedded  
limestone and  
calcareous shale



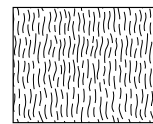
**681**  
Till or diamiction  
(1st option)



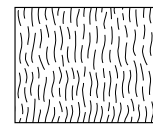
**682**  
Till or diamiction  
(2nd option)



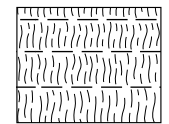
**683**  
Till or diamiction  
(3rd option)



**684**  
Loess (1st option)



**685**  
Loess (2nd option)



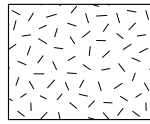
**686**  
Loess (3rd option)

\*For more information, see general guidelines on pages A-i to A-v.

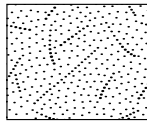
**37—LITHOLOGIC PATTERNS (continued)**

[Lithologic patterns are usually reserved for use on stratigraphic columns, sections, or charts]

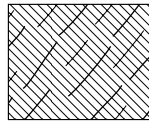
**37.2—Metamorphic-rock, igneous-rock, and vein-matter lithologic patterns**



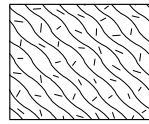
**701**  
Metamorphism



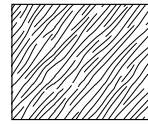
**702**  
Quartzite



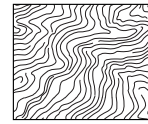
**703**  
Slate



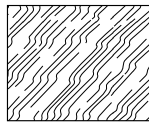
**704**  
Schistose or  
gneissoid granite



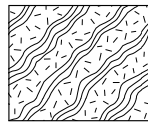
**705**  
Schist



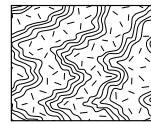
**706**  
Contorted schist



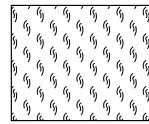
**707**  
Schist and gneiss



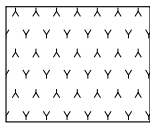
**708**  
Gneiss



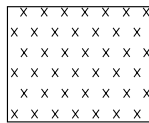
**709**  
Contorted gneiss



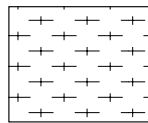
**710**  
Soapstone, talc,  
or serpentine



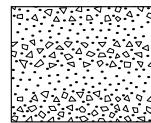
**711**  
Tuffaceous rock



**712**  
Crystal tuff



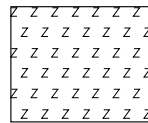
**713**  
Devitrified  
tuff



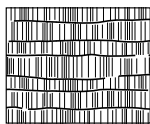
**714**  
Volcanic breccia  
and tuff



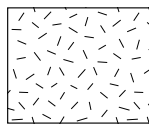
**715**  
Volcanic breccia  
or agglomerate



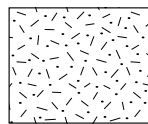
**716**  
Zeolitic rock



**717**  
Basaltic flows



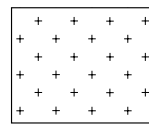
**718**  
Granite (1st option)



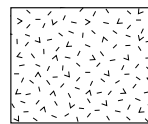
**719**  
Granite (2nd option)



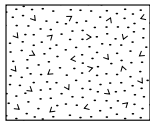
**720**  
Banded  
igneous rock



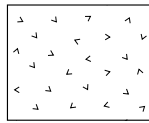
**721**  
Igneous rock  
(1st option)



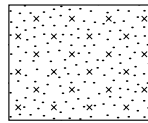
**722**  
Igneous rock  
(2nd option)



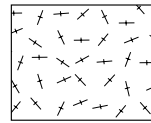
**723**  
Igneous rock  
(3rd option)



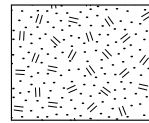
**724**  
Igneous rock  
(4th option)



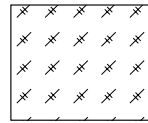
**725**  
Igneous rock  
(5th option)



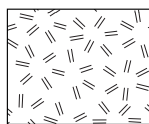
**726**  
Igneous rock  
(6th option)



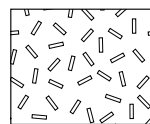
**727**  
Igneous rock  
(7th option)



**728**  
Igneous rock  
(8th option)



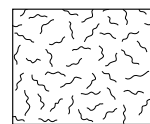
**729**  
Porphyritic rock  
(1st option)



**730**  
Porphyritic rock  
(2nd option)



**731**  
Vitrophyre



**732**  
Quartz



**733**  
Ore

\*For more information, see general guidelines on pages A-i to A-v.