

APPALACHIAN EXPLORATION & DEVELOPMENT, INC.  
SHONK #30

F-49701  
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- 5650-60 Shale dark gray, trace of black; trace of calcite.
- 5660-70 Shale predominantly light gray, pyritic in part; trace of light gray siltstone.
- 5670-80 Shale as above.
- 5680-90 Shale predominantly light gray, pyritic in part; heavy trace of black shale.
- 5690-5700 Shale as above; trace of light gray siltstone.
- 5700-10 Shale light gray and black - about 50% each, pyritic in part; trace of free pyrite.
- 5710-20 Shale as above.
- 5720-30 Shale light gray to black, pyritic in part; trace of calcite; trace of pyrite.
- 5730-40 Shale predominantly black, pyritic in part; trace of light gray shale as above.
- 5740-50 Shale predominantly black, very pyritic in part; heavy trace of free pyrite; trace of light gray shale; trace of calcite; trace of light gray shale, appears limey in part.
- 5750-60 Shale medium gray, compact, pyritic in part, limey in part; trace of dark gray lime; slight trace of light gray oolitic lime.
- 5760-70 Shale light gray and black, about 50% each, pyritic in part.
- 5770-80 Shale predominantly black, pyritic in part; heavy trace of light gray shale as above; slight trace of light gray limey siltstone.
- 5780-90 Shale black, pyritic in part; trace of free pyrite; heavy trace of gray, pyritic shale.
- 5790-5800 Shale black, pyritic in part; trace of free pyrite; trace of white calcite fracture fillings.
- 5800-10 As Above.
- 5810-20 Shale becoming light gray, pyritic in part; heavy trace of pyrite; heavy trace of calcite; trace of gray lime; heavy trace of black shale as above.
- 5820-30 Shale predominantly light gray, slightly pyritic in part; heavy trace of black shale; trace of pyrite.
- 5830-40 No sample.
- 5840-50 Shale predominantly black, slightly pyritic in part; heavy trace of light gray shale; trace of light gray lime.
- 5850-60 Shale light gray and black, about 50% each, slightly pyritic in part; trace of light gray lime.
- 5860-70 As above.
- 5870-80 Shale medium gray to black, slightly pyritic in part; slight trace of gray lime.
- 5880-90 Shale medium gray to black, slightly pyritic in part.
- 5890-5900 Shale as above with increase in pyrite.
- 5900-10 Shale medium gray to black, pyritic in part.

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- 5910-20 Shale medium gray to black, pyritic in part; trace of brown bentonite(?).
- 5920-30 Shale medium gray to black, pyritic in part; slight trace of clacite veining.
- 5930-40 Shale medium gray to black, pyritic in part.
- 5940-50 Shale as above.
- 5950-60 Shale medium gray to black, pyritic in part; slight trace of light brown bentonite(?).
- 5960-70 Shale medium gray, pyritic in part; slight trace of light gray calcareous shale.
- 5970-80 Shale medium gray, pyritic in part.
- 5980-90 Shale medium gray, pyritic in part.
- 5990-6000 Shale medium gray, pyritic in part; trace of brachiapod fossil impression.
- 6000-10 Shale medium gray, pyritic in part.
- 6010-20 Shale light to medium gray, pyritic in part.
- 6020-30 Shale light to medium gray, pyritic in part; trace of brown metabentonite.
- 6030-40 Shale light to medium gray, pyritic in part.
- 6040-50 Shale medium gray, pyritic in part; slight trace of metabentonite; slight trace of brown silty lime.
- 6050-60 Shale medium gray, pyritic in part; trace of brown bentonite.
- 6060-70 Shale as above.
- 6070-80 Shale medium to dark gray, pyritic in part, limey in part; trace of brown bentonite.
- 6080-90 Shale medium to dark gray as above; lime light tan to brown, dense pyritic in part; trace of milk white chert (top of Onondaga lime - 6085'); trace of metabentonite, abundant pyrite throughout.
- 6090-6100 Lime tan to brown, dense, cherty in part; chert 30% white to gray and brown, limey in part.
- 6100-10 Lime tan to brown, dense, cherty in part; chert 40% tan to white, limey in part.
- 6110-20 Lime tan to brown, dense, cherty in part; chert 20% white with some tan and brown.
- 6120-30 Lime tan to brown, dense, cherty in part; chert 30% dark brown, limey in part; trace white chert.
- 6130-40 Chert tan-white, limy throughout; lime tan, 30% cherty in part.
- 6140-50 Lime tan, some white, cherty in part; trace of white glauconitic chert; sample about 30% chert.
- 6150-60 Lime tan to white, cherty in part; chert 40% brown to white, limey in part.
- 6160-70 Lime white to gray, cherty throughout, glauconitic in part with a trace of imbedded sand grains; heavy trace of chert (top of Criskony - 6169').
- 6170-80 Chert gray, limey in part; lime gray 50%, cherty and sandy in part, trace of lime, dense glauconitic sand.

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- 6180-90 Sand clear to white, fine to medium, glauconitic in part.
- 6190-6200 Lime tan to brown, dense, some with fine imbedded sand grains; sand 20% clean, fine.
- 6200-10 Lime tan to brown, dense, very slightly sandy in part; trace of gray chert.
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- 6600-10 Dolomite medium brown, dense; trace of anhydrite.
- 6610-20 Dolomite tan to dark brown, dense; trace of anhydrite.
- 6620-30 Dolomite tan to brown, dense; appears oolitic in part; heavy trace of anhydrite.
- 6630-40 Dolomite tan to brown, dense, very slightly oolitic in part.
- 6640-50 Lime brown, dense, almost lithographic; heavy trace of dark brown dolomite.
- 6650-60 Dolomite dark brown, dense, slightly pyritic in part; heavy trace of anhydrite.
- 6660-70 Dolomite dark brown, dense; trace of light brown dolomite, slightly oolitic in part; heavy trace of anhydrite.
- 6670-80 Dolomite dark brown, dense.
- 6680-90 Dolomite as above.
- 6690-6700 Dolomite dark brown, dense, slightly pyritic in part.
- 6700-10 Dolomite medium to dark brown, dense.
- 6710-20 Dolomite medium to dark brown, dense; fine crystalline.
- 6720-30 Dolomite medium to dark brown, dense; trace of light gray-green fine sand; hole wet between 6715-30; trace of light gray shale; trace of red shale.
- (Foaming)
- 6730-40 Shale light gray and red; heavy trace of greenish-gray sand; trace of dark brown dolomite as above.
- 6740-50 Dolomite medium brown, dense to fine crystalline; trace of anhydrite.
- 6750-60 Dolomite as above.
- 6760-70 Dolomite medium brown, dense to fine crystalline; trace of anhydrite; trace of calcite.
- 6770-80 Dolomite medium brown, dense to fine crystalline, very slightly oolitic in part; trace of anhydrite.
- 6780-90 Dolomite medium to dark brown, dense; trace of light gray shale.
- 6790-6800 Dolomite medium to dark brown, dense, slightly oolitic in part; trace of anhydrite.
- 6800-10 Dolomite medium to dark brown, dense, very slightly oolitic in part; trace of anhydrite; slight trace of very fine gray sand.
- 6810-20 Sand as above.
- 6820-30 Dolomite tan to dark brown, dense; trace of anhydrite; sand clear, 20% very fine.
- 6830-40 Dolomite medium to dark brown, dense; sand 50% clear, fine, tight.

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- 6840-50 Dolomite medium to dark brown, dense; sand 30% clear, fine, tight; trace of anhydrite.
- 6850-60 Dolomite medium to dark brown, dense; sand 40% clear, fine; trace of medium sand grains, all sand well cemented.
- 6860-70 Sample as above with 30% sand.
- 6870-80 Dolomite medium to dark brown, dense; sand 15% clear, fine, tight; trace of anhydrite.
- 6880-84 Dolomite medium to dark brown, dense; sand 40% as above.

T.D.