

STATE: Virginia

COUNTY: Buchanan

CARTER COORDINATE: 2-I-91 (est.)

OPERATOR: United Producing Co., Inc.

WELL NO. 1-1527 FARM C.L. Ritter Co.

LOCATION: 3000'S of 37° 15'; 9,500'W of 81° 55'

ELEVATION: 2261.8' DF

COMMENCED: May 11, 1948

STATUS: D&A in 1950

DRLR TD: 8013'

OTHER DATA AVAILABLE

Sample Desc 2113'-6838' by Jacobson, Eloise T., of USGS

" " 6818'-7642' by ? , apparently USGS nomenclature & color standard.

PARTIAL SAMPLE DESCRIPTION by Jaffrey S. Zafar, Petr. Geol., KGS 5/15-22/77.

NOTE: Sample tops are estimated within the sample intervals; no wire line log was available. Sample quality GOOD. Lithology percentages are estimated. JSZ.

INTERVALLITHOLOGY

MISSISSIPPIAN

Price = Borden (Ky), Grainger (Tn), Pocono (W.Va.)

- 5000-5045 Shale, medium gray/brownish-black, silty, micaceous, pyritic, 20% interbedded sandstone, light gray, very finely grained, silty, argillaceous, 20% interbedded siltstone, medium gray, argillaceous, slightly fossiliferous.
- 5045-5120 Shale, medium gray, silty, micaceous, pyritic, 20% sandstone & 20% siltstone, as above.
- 5120-5150 Shale, as above, 10% interbedded siltstone, medium gray, argillaceous, trace siderite.
- 5150-5260 Shale, as above 15% interbedded sandstone, light/medium gray, very finely grained/silty, argillaceous, 20% siltstone, as above.
- 5260-5290 Shale, as above. 10% interbedded shale, dark gray/grayish-black, silty. 20% interbedded sandstone, as above. 20% siltstone, as above.

Big Stone Gap = Sunbury (Ky, Oh, W .Va.), Chattanooga (Tn)

- 5290-5320 Shale, black, silty, carbonaceous, micaceous, pyritic.

Cloyd = Berea (Ky, Oh, W.Va)

- 5320-5350 Sandstone, white/light gray, very finely grained, well cemented, argillaceous, silty, very slightly & partly calcareous/calcareous, pyritic.
- 5350-5360 Sandstone, as above; highly calcareous.

DEVONIAN

Devonian Shale = Ohio (Ky, Oh, W Va.)

- 5360-5408 Shale, medium gray/brownish-gray, silty, micaceous, pyritic, 20% shale, brownish-black, to black, silty, 10% interbedded siltstone, medium gray, argillaceous, 5% interbedded shale, dark gray, silty.
- 5408-5450 Shale, as above. 10% interbedded shale, brownish-black/black, silty, . 20% sandstone, light gray, very finely grained/silty, argillaceous, very slightly calcareous. 20% siltstone, medium gray, argillaceous.
- 5450-5510 Shale, as above. 20% interbedded sandstone, light gray, very finely grained/silty, argillaceous, very slightly calcareous, 25% interbedded siltstone, medium/dark gray, argillaceous.
- 5510-5580 Shale, as above. 25% interbedded sandstone, light medium gray, very finely grained, fairly/well cemented, argillaceous, porous, intergranular, carbonaceous material. 25% interbedded siltstone, light/dark gray, argillaceous, sandy.

- 5580-5763 Shale, as above; 35% sandstone, light gray/white, very finely grained, argillaceous, tight, well cemented, very slightly calcareous/very slightly dolomitic. 30% siltstone, as above.
- 5763-5780 Shale, as above 20% sandstone & siltstone, as above.
- 5780-5940 Shale, as above. 20% interbedded sandstone, as above. 30% interbedded siltstone, as above.
- 5940-5980 Shale, as above; 20% interbedded sandstone, as above. 20% interbedded siltstone, as above 10% interbedded shale, gray-black, silty.
- 5980-6005 Shale, as above; 25% interbedded sandstone, light gray, very finely grained/silty, argillaceous, very slightly dolomitic. 25% interbedded siltstone, as above. 10% interbedded shale, dark gray/black, silty.
- 6005-6178 shale, medium gray/brownish-gray, silty, micaceous, pyritic. 25% interbedded sandstone, light gray, very finely grained/silty, argillaceous, very slightly dolomitic; 20% interbedded siltstone, medium/dark gray, argillaceous, sandy. 15% interbedded shale, grayish-black/dark gray, silty.
- 6178-6200 Shale, as above; 20% interbedded sandstone, as above. 35% interbedded siltstone, medium/dark gray/dark brownish-gray, sandy, slightly & partly dolomitic.
- 6200-6335 Shale, medium gray, silty, micaceous, pyritic 25% interbedded siltstone, light/medium gray, argillaceous; 25% interbedded sandstone, as above. 20% interbedded shale, grayish-black, silty.
- 6335-6390 Shale, brownish-black, silty, micaceous, pyritic; 20% interbedded siltstone, dark gray, argillaceous; occasional spores.
- 6390-6480 Shale, medium gray/brownish-gray, silty, micaceous, pyritic 25% interbedded sandstone, light gray, very finely grained/silty, argillaceous, slightly dolomitic. 25% interbedded siltstone, medium gray, argillaceous. 20% interbedded shale, grayish black/brownish-black, silty.
- 6480-6570 Gray and Black shale, as above. 10% sandstone, as above. 25% interbedded siltstone, medium gray, argillaceous, sandy, dolomitic.
- 6570-6636 Shale, grayish-black/black, silty, micaceous, pyritic; scattered calcitic filled fractures. 10% interbedded siltstone, dark gray, argillaceous. Pyrite & spores.
- 6636-6345 Shale, medium gray/brownish-gray, silty, micaceous pyrite. 40% interbedded siltstone, medium gray, argillaceous, sandy, dolomitic, 10% shale, black, silty.
- 6645-6647 Metabentonite, white, micaceous.
- 6647-6680 Shale, as above slightly calcareous. 25% interbedded siltstone, medium gray, argillaceous, partly sandy. 10% interbedded

shale, black, silty. Trace fossils.

6680-6810 Shale, medium gray/brownish-gray, silty, micaceous, pyrite, fossiliferous. 20% interbedded shale, black, silty. 20% interbedded siltstone, medium gray, argillaceous very slightly calcareous/calcareous.

6810-6920 Shale, medium gray/brownish-gray, slightly calcareous, silty, micaceous, pyritic. 25% interbedded siltstone, medium gray, argillaceous, sandy, slightly calcareous, scattered fossil fragments.

6920-6960 Shale, as above 15% interbedded shale, black, silty. 5% interbedded siltstone, medium gray, argillaceous slightly calcareous.

6960-7033 Shale, black to /brownish-black, silty, micaceous, pyrite. 12% interbedded shale, medium gray/brownish-gray, silty, slightly calcareous. Trace fractures.

7033-7080 Shale, brownish-black, silty, micaceous, pyritic, slightly fractured.

7080-7103 Shale, medium gray, silty, micaceous, pyritic, 45% interbedded shale, brownish-black/black, silty, slightly fractured.

7103-7133 Shale, brownish-black/black, slightly silty, micaceous, pyritic.

Onondaga

7133-7145 Limestone, white/yellowish-gray, crypto/micro crystalline, argillaceous, slightly glauconitic, fossils. 40% chert, light gray, translucent; trace glauconite.

Wild Cat Valley (Oriskany Member)

7145-7190 Sandstone, light gray/white, subangular/subround, fairly sorted, fairly/well cemented, argillaceous calcareous/ highly calcareous, limy fossils. 30% chert, white, translucent. 10% limestone, light gray/yellowish-gray, micro crystalline, sandy, fossiliferous, corals.

7190-7238 Missing.

7238-7282 Sandstone, as above. 10% limestone & 20% chert, as above. 10% interbedded shale, medium gray, silty, pyrite.

SILURIAN

Hancock (Salina)

7282-7307 Dolomite, dusty brown/dark brown, crypto crystalline, argillaceous, 30% interbedded limestone, dusty brown, lithographic, argillaceous. Trace pellets.