

VDMR Well No. 127

Operator: United Fuel Gas Co.
 Farm: New River & Pocahantas
 Consol. Coal Co.

Geologic log
 Samples studied by R. J. Voitsberger
 Virginia Division of Mineral Resources
 December, 1959

Well No.: 6705
 Location: Buchanan County
 11,400' S. of 37° 15'
 2,300' W. of 81° 45'

Elevation: 2894' Ground

Total Depth: 6082'

Samples to 5288' (in Greenbrier ls.)

Commenced: April 24, 1951

Completed: March 21, 1952

Result: Dry and abandoned

Pottsville group - thickness 2093' - Depth interval 426' - 2519'

Depth		
426' - 432'	6'	Sandstone, light to medium gray, fine to medium-grained, quartzose, micaceous, fair sorting, angular to subangular, clay and silica cement, and siltstone, light to medium gray, micaceous.
432' - 445'	13'	Siltstone, medium gray, finely micaceous.
445' - 471'	26'	Shale, medium gray.
471' - 496'	25'	Siltstone, medium gray, finely micaceous, slightly calcareous at 481'.
496' - 501'	5'	Shale, medium gray with trace of shale, dark brown-gray, very slightly calcareous.
501' - 532'	31'	Siltstone, medium gray becoming slightly calcareous at base of interval, and shale, as above.
532' - 537'	5'	Siltstone, light to medium gray, finely micaceous, non-calcareous.
537' - 597'	60'	Sandstone, light gray, fine-grained, quartzose, coarsely micaceous, chloritic, fair sorting, subangular, silt cement, and siltstone, medium gray, micaceous, and shale, medium gray. Siltstone, and shale predominant from 542'-555'. Some black shale at 555'. Sandstone coarsens to fine to medium-grained 571'-574'. No samples 574'-584'. Sandstone is medium to coarse-grained 584'-597'. Conglomerate at base of interval.

Depth		
597' - 608'	11'	Shale, dark chocolate brown, finely micaceous.
608' - 612'	4'	No samples.
612' - 702'	90'	Sandstone, light gray, fine to coarse-grained, quartzose, micaceous, and chloritic, fair sorting, subangular, clay and silica cement. Sand becomes fine-grained from 639' to base of interval. Siltstone and shale, medium gray 612'-634', and 653' to base of interval with goodly amount of silt and shale at 653'-661', 670'-673', and 694'-702'. Sandstone is silt cemented from 677' to base of interval.
702' - 785'	83'	Siltstone, medium gray, finely micaceous, very slightly calcareous, but becoming more calcareous at 724'. Shaly zones 733'-741', and 766' to base of interval. With a trace of shale, brown-gray, calcareous 741'-749', and 766'-785'.
785' - 795'	10'	No samples.
795' - 806'	11'	Sandstone, light gray, fine-grained, quartzose, micaceous and chloritic, poor sorting, subangular, clay and silica cement, and siltstone, light to medium gray, micaceous, and shale, medium to dark gray with a trace of shale, dark brown-gray.
806' - 826'	20'	Sandstone, as above, but medium to coarse-grained.
826' - 831'	5'	Sandstone, as above, but medium to very coarse-grained, slightly conglomeratic, and a trace of shale, black.
831' - 838'	7'	Sandstone, light gray, fine to coarse-grained, quartzose, micaceous and chloritic, fair sorting, subrounded, clay and silica cement, slightly conglomeratic.
838' - 866'	28'	Sandstone, as above, but fine-grained.
866' - 873'	7'	Sandstone, as above, but fine to coarse-grained, and siltstone, medium gray and light brown-gray, coarsely micaceous, with bituminous partings, and a trace of shale, medium brown.
873' - 948'	75'	Siltstone, medium gray. With dark brown-gray, moderately micaceous from 873'-922'. Calcareous in part 908'-912'. Slightly calcareous in part 917'-941'.

Depth		
948' - 972'	24'	Shale, medium gray.
972' - 1000'	28'	Sandstone, light to medium gray, fine-grained, quartzose, micaceous and chloritic, poor sorting, subangular, silt, silica, and calcareous cement, and shale, medium to dark gray. Some of shale going over to silt from 987' to base of interval.
1000' - 1063'	63'	Siltstone, and shale, light to medium gray, micaceous with a few stringers of sandstone, as above, in upper 23' of interval.
1063' - 1081'	18'	Sandstone, white, fine to coarse-grained, quartzose, micaceous and chloritic, poor sorting, subangular to subrounded, silt and silica cement with a stringer of shale, medium to dark gray.
1081' - 1100'	19'	Sandstone, as above, with a trace of siltstone, medium gray, micaceous, and shale, dark brown.
1100' - 1120'	20'	As above, but sandstone, medium to coarse-grained.
1120' - 1142'	22'	Sandstone, white, fine to medium-grained, quartzose, micaceous and chloritic, fair sorting, subangular to subrounded, clay cement.
1142' - 1149'	7'	Siltstone, light to medium gray, micaceous.
1149' - 1164'	15'	Sandstone, light gray, very fine-grained, quartzose, micaceous, good sorting, subrounded, silt and silica cement, and a trace of coal, and shale, black through middle of interval.
1164' - 1178'	14'	Siltstone, light to medium gray, micaceous.
1178' - 1212'	34'	Sandstone, light gray and some brown, fine to medium-grained, quartzose, micaceous and chloritic, fair sorting, subrounded, silica cement, and siltstone, light gray, micaceous.
1212' - 1250'	38'	Sandstone, as above, and some shale, black.
✓ 1250' - 1259'	9'	Sandstone, as above, but very fine-grained and medium to coarse-grained and shale as above with a trace of siltstone, medium gray at base of interval.
1259' - 1273'	14'	Shale, medium to dark gray and dark brown with a trace of coal in lower half of interval.

Depth		
1273' - 1286'	13'	Sandstone, light gray, very fine-grained, quartzose, micaceous, well sorted, subangular, silt cement, and shale, medium to dark gray and dark brown, and a trace of coal.
1286' - 1308'	24'	Siltstone, light to medium gray, micaceous, and shale, medium to dark gray and dark brown.
1308' - 1338'	30'	Shale, medium to dark gray with siltstone, light gray, micaceous at top of section. A trace of shale, brown 1318'-1338'. Coal throughout interval.
1338' - 1350'	12'	Shale, medium gray.
1350' - 1397'	47'	Shale, as above, and sandstone, light gray, very fine-grained, quartzose, micaceous and chloritic, fair sorting, subangular, silt cement.
1397' - 1437'	40'	Sandstone, white, fine to medium-grained, quartzose, micaceous and chloritic, poor to fair sorting, subangular to subrounded, silica and clay cement, and a trace of shale, dark gray to black at top of interval and bottom 18' of interval.
1437' - 1449'	12'	Siltstone, medium gray, micaceous, and sandstone, light gray, very fine-grained, quartzose, micaceous and chloritic, fair sorting, subangular, clay cement. 1440 - 1447
1449' - 1488'	39'	Sandstone, as above, and shale, black. Coal at 1449'-1457' and 1468'-1471'. Siltstone, medium gray, coarsely micaceous at uppermost and lowermost part of interval.
1488' - 1532'	44'	Sandstone, white, fine to medium-grained, quartzose, micaceous and chloritic, fair sorting, subangular, to subrounded, clay cement. A trace of siltstone and shale, medium gray 1488'-1512'. Coal at 1504'-1511'.
1532' - 1544'	12'	Sandstone, as above, and siltstone, medium gray and light brown-gray, and shale, black, and coal. Coal 1535 - 1540
1544' - 1560'	16'	Shale, siltstone, and coal as above.
1560' - 1568'	8'	Coal, shale, black and sandstone, same as 1532'-1544'.

Depth		
1568' - 1618'	50'	Siltstone, light to medium gray, and shale, dark gray. Coal 1568'-1579' and 1604'-1618'.
1618' - 1621'	3'	Sandstone, white, very fine to fine-grained, quartzose, micaceous, fair sorting, subrounded, clay cement, and siltstone, medium gray, micaceous.
1621' - 1653'	32'	Sandstone, as above, but fine to medium-grained and chloritic. <i>Coal 1653' - 1654'</i>
1653' - 1660'	7'	Sandstone, as above, but silty in part, and siltstone, light gray, to light brown-gray, sandy, and shale, medium gray, and light brown-gray.
1660' - 1689'	29'	Sandstone, white, fine to medium gray, quartzose, micaceous and chloritic, poor sorting, sub-angular to subrounded, clay cement.
1689' - 1699'	10'	Shale, medium gray, and sandstone, as above.
1699' - 1707'	8'	Shale, medium gray, and dark brown, and siltstone, light to medium gray.
1707' - 1749'	42'	Sandstone, white, fine to medium-grained, quartzose, micaceous and chloritic, fair sorting, subrounded, clay cement, with some shale, medium gray and black and a trace of shale, dark brown in upper 13' of interval.
1749' - 1758'	9'	Siltstone, medium gray and dark brown with some sandstone, as above.
1758' - 1772'	14'	Siltstone, as above, and shale, dark gray, and sandstone, light gray, very fine-grained, quartzose, micaceous, fair sorting, subrounded.
1772' - 1778'	6'	Shale, medium to dark gray, coal, and siltstone and sandstone, as above.
1778' - 1838'	60'	Sandstone, as above, and some shale medium to dark gray in upper 7' of interval.
1838' - 1878'	40'	Shale, medium gray.
1878' - 1890'	12'	Siltstone, medium gray, calcareous - <i>of</i>
1890' - 1898'	8'	Siltstone, medium gray and light tan-gray, and shale, medium gray, and a trace of coal. <i>Coal 1896-98'</i>

Depth		
1898' - 1901'	3'	Sandstone, white, fine-grained, quartzose, micaceous and chloritic, poor sorting, sub-angular, clay cement, and siltstone and shale, medium gray and black, and coal.
1901' - 1932'	31'	Sandstone, as above, but light gray-tan, and with coal 1901'-1913', and 1921'-1932'. A trace of shale, black 1913'-1932'.
1932' - 1953'	21'	Shale, medium to dark gray and dark brown, and siltstone, light to medium gray. Coal 1944' - 1953'.
1953' - 1962'	9'	Sandstone, light gray, very fine-grained, quartzose, micaceous, poor sorting, subangular, clay cement, and shale, dark gray, and coal.
1962' - 1974'	12'	Shale, dark gray, and sandstone, as above.
1974' - 2004'	30'	Shale, medium gray.
2004' - 2048'	44'	Shale, light brown-gray and black, and siltstone, medium gray, and sandstone, dirty white, fine-grained, quartzose, micaceous, poor sorting, subangular, clay cement, and coal. 2004-44
2048' - 2056'	8'	Sandstone, light gray to tan-gray, fine to coarse-grained, quartzose, micaceous and chloritic, cherty in part, bituminous partings, poor sorting, subrounded, silt and silica cement, and siltstone, medium gray, and shale, black and brown.
2056' - 2067'	11'	Sandstone, green-gray-brown, very fine-grained, quartzose, micaceous, and chloritic, poor sorting, subangular, silica and silt cement, and siltstone, medium gray and brown, and shale, medium gray and brown.
2067' - 2121'	54'	Sandstone, white, fine to medium-grained, quartzose, micaceous and chloritic, fair sorting, subrounded, clay and silica cement.
2121' - 2133'	12'	Shale, black, coaly, and shale, light gray, and coal.
2133' - 2149'	16'	As above, but with siltstone, light gray-brown and brown-gray.
2149' - 2165'	16'	Shale, light and dark gray with a trace of shale, brown, and coal. Slight calcareous in part in lower half of interval.

Depth			
2165' - 2187'	22'		Siltstone, light to medium gray, and shale, light to dark gray with coal 2165'-2175'.
2187' - 2207'	20'		Sandstone, light to medium gray, very fine-grained, quartzose, micaceous, poor sorting, subangular, silica and clay cement with some shale, dark gray to black 2195'-2207'.
2207' - 2214'	7'		Sandstone, white, fine to medium-grained, quartzose, micaceous, fair sorting, subrounded, clay cement, and shale, black, and coal.
2214' - 2273'	59'		Shale, medium gray, and siltstone, light to medium gray. Coal at 2225'-2232'.
2273' - 2289'	16'		Siltstone and shale, light to medium gray, and sandstone, light gray, very fine-grained, quartzose, micaceous, good sorting, subrounded to rounded, silica and silt cement. Sand becoming predominant from 2284' downward in interval.
2289' - 2333'	44'		Sandstone, light gray, fine-grained, quartzose, micaceous and chloritic, fair sorting, subangular to subrounded, clay cement, and shale, dark gray with bituminous parting, and coal. Shale predominates from 2314' to base of interval.
2333' - 2353'	20'		Sandstone, white, fine to medium-grained, quartzose, micaceous, fair sorting, subangular to subrounded, and coaly, and coaly partings. With some shale, tan-gray, containing spherulitic inclusions, at base of interval.
2353' - 2380'	27'		Sandstone, as above, but fair to coarse-grained, silica cement, and slightly conglomeratic.
2380' - 2419'	39'		Sandstone, light to medium gray, very fine-grained, quartzose, micaceous and chloritic, fair sorting, subrounded, silt and silica cement, and siltstone, medium gray and red, and shale, black to tan-gray.
2419' - 2444'	25'		Siltstone, medium gray, and shale, medium gray and dark red, and some sandstone, white, fine to medium-grained, quartzose, micaceous and chloritic, fair sorting, subangular to subrounded, silica cement.

Depth		
2444' - 2511'	67'	Sandstone as above, and some shale, medium gray and dark red. With some shale, tan-gray, containing brown spherulitic inclusions 2482'-2495'. Slightly conglomeratic 2495'-2511'.
2511' - 2519'	8'	Shale, tan-green-gray, green-gray, medium to dark gray, and tan-gray with brown spherulitic inclusions.
Bluestone formation - top 2519'		
2519' - 2563'	44'	Shale, dark red, varigated red and green, dark gray, and light and medium green-gray. With some siltstone, light gray, micaceous and pyrite 2525'-2532'. Coal at 2537'-2544'. Hole correction: 2563' = 2611'
2611' - 2626'	15'	Shale, red, slightly silty, and shale, green, green-gray, and tan-green-gray, silty and slightly calcareous.
2626' - 2660'	34'	Shale, as above, but predominantly medium gray and green-gray. Brown-gray variety of shale at base of interval is moderately calcareous.
2660' - 2694'	34'	Shale, dark red and green with sandstone, medium gray and green-gray, very fine-grained, silty, calcareous cement, fair sorting, sub-angular, and sandstone, white, medium-grained, loose, subrounded. Sand builds up to a predominant maximum at 2672' then ceases.
2694' - 2702'	8'	Siltstone, light to medium gray, silty, sandy, slightly calcareous, and shale, dark gray, and limestone, dark brown-gray, argillaceous, and fossiliferous with ostracods.
2702' - 2719'	17'	As above, but with some sandstone, light gray, fine-grained, quartzose, good sorting, subangular, calcareous cement, and pyrite.
2719' - 2793'	74'	Shale, red and green-gray with some sandstone, light green-gray, very fine grained, fair sorting, subangular, very calcareous from 2743'-2793'.
2793' - 3015'	222'	Shale, medium gray with pyrite scattered in lower 53' of interval.

Princeton sandstone - Top 3015'

Depth		
3015' - 3028'	13'	Shale, dark gray, and sandstone, white, to light gray, fine-grained, quartzose, good sorting, subangular, silica and clay cement. With a trace of shale, red 3020'-3028'.
3028' - 3073'	45'	Sandstone, as above, and some shale, as above with shale, red 3064'-3073'.
3073' - 3115'	42'	Sandstone, as above, but fine to medium-grained, fair sorting, subangular to subrounded, and some shale, dark gray and red.
3115' - 3147'	32'	Sandstone, as above, but fine to coarse-grained, conglomeratic with some shale, dark gray. A trace of shale, red 3115'-3127'. A trace of rose quartz at base of interval.
3147' - 3150'	3'	Limestone, mottled brown, and sandstone, as above.
3150' - 3184'	34'	Shale, dark gray, calcareous, and a trace of limestone as above. With conglomerate, pyrite, and some limestone, dark gray, argillaceous.
3184' - 3200'	16'	Shale, medium to dark gray, calcareous.
3200' - 3229'	29'	Shale, red, gray and variegated red and gray, and a trace of sandstone, very light gray, very fine-grained, quartzose, fair sorting, subangular, silt cement.
3229' - 3239'	10'	As above, but with a trace of limestone, dark brown-gray, and some shale, with black spherulitic inclusions.
3239' - 3262'	23'	Siltstone, light to medium gray, micaceous, and sandstone, light gray, very fine-grained, quartzose, micaceous, fair sorting, subangular, silt cement.

Avis limestone - Top 3262'

3262' - 3327'	65'	Shale, medium gray, and limestone, medium gray, very argillaceous with fossil fragments. Coarse crystalline calcite 3282'-3290'. Crinoid plates 3290'-3302'. Pyrite 3319'-3327'.
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Hinton formation (proper) - Top 3327'

3327' - 3350'	23'	Shale, medium gray, very calcareous, and shale, dusky red with a trace of limestone, medium gray.
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Depth		
3350' - 3408'	58'	Shale, as above, but only slightly calcareous, and with some sandstone, red, fine-grained, slightly chloritic, fair sorting, subangular, silt and calcareous cement. Calcareous in part 3379'-3399'.
3408' - 3414'	6'	Shale, as above with a trace of coal.
3414' - 3424'	10'	Shale, red.
3424' - 3454'	30'	Shale, red and some shale, gray and green with some silt at bottom of interval.
3454' - 3501'	47'	Shale red, and medium gray. Silty at base of interval.
3501' - 3516'	15'	Shale, dark gray with a trace of shale, red, calcareous in part.
3516' - 3556'	40'	Shale, red and dark gray.
3556' - 3569'	13'	Sandstone, red, very fine-grained, quartzose, micaceous, fair sorting, subangular, calcareous, silt cement, and shale, red and medium gray.
3569' - 3613'	44'	Shale, red, and medium gray with some siltstone, red, calcareous in lower half of interval.
3613' - 3627'	14'	Shale, medium gray, and red.
3627' - 3696'	69'	Sandstone, white to light gray, fine-grained, fair sorting, subangular, clay and silica cement, and some shale, red, and medium gray.
3696' - 3702'	6'	Sandstone, white to light gray, fine to coarse-grained, quartzose, poor sorting, angular to subangular, calcareous and silica cement, and shale, medium gray, very calcareous in part, and shale, red.
3702' - 3719'	17'	Shale, medium gray, and red.
3719' - 3739'	20'	Shale, medium gray.
3739' - 3759'	20'	Sandstone, white to light gray, fine-grained, quartzose, fair sorting, subangular, silica and clay cement, and shale, medium gray, and red.
3759' - 3766'	7'	Shale, medium gray.

Depth		
3766' - 3770'	4'	Shale, medium gray, and red, and sandstone, white, fine-grained, quartzose, fair sorting, subangular, silica and clay cement.
3770' - 3802'	32'	Shale, medium gray with a trace of shale, red. Very calcareous in part and with fossil fragments and pyrite 3789'-3802'.
3802' - 3829'	27'	Shale, medium gray.
3829' - 3853'	24'	Shale, medium gray with a trace of shale, red, calcareous, and some sandstone, white, fine-grained, quartzose, good sorting, subrounded, frosted grains, silica cement.
Stony Gap sandstone member - Top 3873'		
3853' - 3950'	97'	Sandstone, as above, with some shale, medium gray, and a trace of shale, red, calcareous.
3950' - 3988'	38'	Shale, medium gray, and a trace of shale, red, slightly calcareous. No samples 3958'-3965'.
3988' - 3997'	9'	Shale, light to medium gray, silty and siliceous, and a trace of shale, red.
3997' - 4080'	83'	Sandstone, light gray, very fine to fine-grained, quartzose, micaceous, fair sorting, subangular, clay and silica cement, and shale and siltstone, medium gray, and a trace of shale, red.
4080' - 4101'	21'	Sandstone as above, and some shale, medium gray. A trace of shale, red in upper half of interval.
Bluefield formation - Top 4101'		
4101' - 4131'	30'	Shale, medium to dark gray, silty, slightly calcareous.
4131' - 4184'	53'	Sandstone, light to medium gray, very fine-grained, quartzose, silty, fair sorting, subangular, silica cement, and siltstone, medium gray. Pyrite 4141'-4160'.
4184' - 4195'	11'	Shale, medium to dark gray, and a trace of shale, red, and siltstone, light gray, finely micaceous.
4195' - 4203'	.8'	Shale, medium gray, very calcareous in part.

Depth		
4203' - 4215'	12'	Shale, as above, but with fossil fragments, and some sandstone, very light gray, very fine-grained, quartzose, micaceous, fair sorting, subangular, silica cement.
4215' - 4226'	11'	No samples.
4226' - 4227'	1'	Shale, dark gray, moderate to very calcareous in part.
4227' - 4240'	13'	Shale, medium gray, and a trace of shale, red, and siltstone, light olive-gray, slightly calcareous, micaceous.
4240' - 4249'	9'	Shale, medium to dark gray.
4249' - 4283'	34'	Shale, as above, with a trace of limestone, medium gray, very argillaceous. Shale, slightly silty in part in lower 21' of interval.
4283' - 4290'	7'	As above, but with some sandstone, light gray, very fine-grained, quartzose, fair sorting, subangular, silica and clay cement.
4290' - 4300'	10'	Sandstone as above, and some siltstone, medium gray.
4300' - 4378'	78'	Sandstone, white and light gray, fine-grained, quartzose, fair sorting, subangular to subrounded, silica cement, and some shale, dark gray. Shale, red at 4300'-4311', 4321'-4340', and 4350'-4368'.
4378' - 4457'	79'	Shale, medium gray with a trace of sandstone, as above from 4378'-4399'. Pyrite 4388'-4399'. Moderately calcareous in part from 4432' to base of interval.
4457' - 4680'	223'	Shale, medium gray with some limestone, medium gray, very argillaceous in part. Shale becoming slightly silty at 4505'. Coarse crystalline calcite at 4457'-4482', 4505'-4514', 4526'-4535', 4568'-4590', and 4611'-4680'. Oolites at 4539'-4550', 4580'-4590', and 4611'-4621'. Pyrite at 4611'-4621'.
4680' - 4752'	72'	Limestone, as above, but light tan-gray to medium gray, and shale, medium gray, and a trace of siltstone, red, calcareous. Coarse crystalline calcite 4680'-4742'. A trace of white, pink, and red calcite at 4694'. Shale is slightly silty at 4719'.

6 Jan 1954

Depth		
4752' - 4802'	50'	Shale, medium gray, and some limestone, as above. Coarse crystalline calcite throughout interval. Oolitic in part at 4783'-4793'.
<i>Lillydale</i>		
4802' - 4972'	170'	Limestone, as above, and a small amount of shale, medium gray. Coarse crystalline calcite at 4802'-4835', 4842'-4930', and 4951'-4972'. Oolites at 4891'-4921', and 4968'-4972'. Brachiopod fragments at 4849'-4854'.
<i>Open Hill</i>		
4972' - 4978'	6'	Limestone, white and medium gray, very oolitic with coarse crystalline calcite, and some shale, medium gray, calcareous.
4978' - 5002'	24'	As above, but limestone is buff to light tan-gray, and with a trace of shale, red. Oolites from 4978'-4985'. Tan chert at 4990'-4997'.
5002' - 5022'	20'	Limestone, as above with a trace of shale, medium gray. A trace of pink calcite at 5011' - 5015'. Coarse crystalline calcite at 5015' - 5022'.
5022' - 5028'	6'	Limestone, as above, and siltstone, red, calcareous.
5028' - 5050'	22'	Limestone, light green-tan-gray, argillaceous, and siltstone, red, calcareous.
5050' - 5060'	10'	Limestone, tan-gray, and a trace of shale, medium gray. Slightly oolitic in part at 5050'-5055'.
5060' - 5091'	31'	Limestone, brown-gray, very argillaceous, and siltstone, red calcareous, decreasing to a trace at base of interval. Coarse crystalline calcite at 5075'-5079'.
5091' - 5101'	10'	Limestone, as above with brachiopod fragments and coarse crystalline calcite at 5096'-5101'.
5101' - 5131'	30'	Limestone, as above, and some shale, medium gray. A trace of shale, red at 5118'-5131'.
5131' - 5211'	80'	Limestone, as above with coarse crystalline calcite at 5193'-5203'.
5211' - 5257'	46'	Shale, red, and medium to dark gray, calcareous with limestone, light to dark gray, very argillaceous, increasing to predominance toward base of interval. Oolitic in part at 5211'-5213'. Oolitic at 5237'-5257'. Coarse crystalline calcite at 5246'-5257'.

Depth
5257' - 5288' 31'

Limestone, tan-gray, argillaceous. Rather oolitic from 5277' to base of interval.

T. D. 6082'

Summary

Pennsylvanian	in	426'
	bottom	2519'
Bluestone formation	top	2519'
	bottom	3015'
Princeton sandstone	top	3015'
	bottom	3262'
Avis limestone	top	3262' ✓
	bottom	3327'
Hinton formation (proper)	top	3327'
	bottom	3873'
Stony Gap sandstone member	top	3873'
	bottom	4101'
Bluefield formation	top	4101'
	bottom	4680' (?)
Greenbrier limestone	top	4680' (?)
in Greenbrier limestone	at	5288'
No samples	top	5288'
	T. D.	6082'