

WS-17

OPERATOR: Penn-Virginia Resources  
 FARM: Penn-Virginia Resources  
 WELL NO. 206  
 LOCATION: Wise County  
 14,500' N of 36°-55'  
 5,750' W of 82°-45'  
 ELEVATION: 2025' GR.  
 TOTAL DEPTH: 4029'  
 DRILLING COMMENCED: September 9, 1957  
 WELL COMPLETED: May 23, 1958  
 RESULT: Gas Well

WELL LOG

DEPTH  
(feet)

0-774 No samples - strip reconstructed from driller's log.

774-784 Siltstone - medium gray (N5); firm to moderately hard; locally sandy and/or micaceous; sandstone fragments.

784-803 No samples.

803-817 Sandstone - light gray to very light gray (N7-N8); very fine to fine, subangular, moderately sorted; siliceous; hard; moderately clean, micaceous - muscovite and fuschite; siderite; rock fragments.

817-828 Sandstone - medium to dark gray (N5-N3); as 803-817; grading into a dark gray sandy siltstone, locally micaceous.

828-838 Sandstone - light gray (N7); fine to medium, subangular, moderately sorted; siliceous; micaceous; rock fragments.

838-844 Sandstone - as 828-838; coal; carbonaceous siltstone fragments.

844-854 Siltstone - dark gray (N3); hard; micaceous.

854-860 No sample.

860-868 Siltstone - as above; grading into fissile, hard, carbonaceous shale.

868-883 No sample.

883-893 Siltstone/Shale - as 860-868; coal and coal with sulfur.

893-904 No sample.

904-909 Siltstone - as 844-854; sparse fragments of dark brownish gray (5YR 4/1).

DEPTH  
(feet)

909-917	Sandstone/Siltstone - 50% each; <u>Sandstone</u> - light gray (N7); fine to medium, subangular, poorly sorted; siliceous; feldspar; abundant micas; siderite and iron oxide stains; grading into and interbedded with <u>Siltstone</u> - dark gray (N3); hard, locally micaceous, deformed bedding and sandy; coal; rose quartz.
917-926	Sandstone/Siltstone - as 909-917.
926-935	Sandstone/Siltstone - as 909-917; coal.
935-944	Sandstone/Siltstone - as 909-917; no coal and lessening amounts of siltstone.
944-950	Sandstone/Siltstone - as 935-944.
950-960	Sandstone/Siltstone - as 909-917; (coal - sparse).
960-973	Siltstone - medium dark gray (N4); hard; massive; some local areas are sandy, micaceous and carbonaceously laminated.
973-986	No sample.
986-999	Sandstone - medium light to dark gray (N6-N3); grossly laminated and interbedded; as 909-917; greater amounts of sandstone.
999-1011	Siltstone - dark gray (N3); hard; massive; very sparsely micaceous; some dark brownish gray siltstone.
1011-1021	Siltstone, sandy - as 999-1011; carbonaceous and very finely sandy.
1021-1031	Siltstone, sandy - as above.
1031-1041	Siltstone - as 960-973.
1041-1053	No sample.
1053-1065	Siltstone - as 960-973.
1065-1077	Siltstone - as 960-973.
1077-1099	Siltstone - as 960-973; micaceous.
1099-1100	Siltstone, sandy - dark gray (N3); hard; sandy; carbonaceous; grading into dark gray shale - soft, carbonaceous; coal.
1100-1105	No sample.
1105-1115	Siltstone - medium dark gray (N4), hard; massive; moderate amounts of dark reddish brown (10R 3/2); soft.

DEPTH (feet)	
1115-1122	Siltstone - as above.
1122-1130	No sample.
1130-1135	Sandstone/Shale - 50% each; <u>Sandstone</u> - very light gray (N8); very fine to medium, subangular, moderately sorted; siliceous; moderately clean; micaceous; <u>Shale</u> - dark gray (N3); soft; <u>very carbonaceous</u> ; fissile; <u>coal</u> .
1135-1145	Sandstone/Shale - as above; shale grading back into a sandy siltstone.
1145-1154	Sandstone/Siltstone, sandy - <u>Sandstone</u> , as 1130-1135; <u>Siltstone</u> - as 1099-1100.
1154-1159	No sample.
1159-1166	Sandstone/Siltstone - as 1145-1154; sandstone is iron-oxide stained and micaceous; siltstone becoming sparse.
1166-1174	No samples.
1174-1183	Sandstone - white (N9), medium grained, subangular, well sorted; siliceous; hard to brittle; <u>clean</u> ; tightly cemented; sparse shale fragments.
1183-1193	Sandstone - as above.
1193-1196	Sandstone - as above.
1196-1199	No sample.
1199-1204	Sandstone - as above; dark gray shale fragments grading into siltstone; coal.
1204-1209	No sample.
1209-1217	Siltstone/Sandstone - dark gray (N3); hard; massive; locally micaceous; and <u>Sandstone</u> - light gray (N7), fine grained, subangular, moderately well sorted; siliceous; hard; micaceous; local siderite.
1217-1225	No samples.
1225-1234	Siltstone - medium gray (N5), hard; massive.
1234-1241	Siltstone/Sandstone - <u>Siltstone</u> , as above; and <u>Sandstone</u> , as 1209-1217; iron oxide stains.
1241-1248	Sandstone - white (N9); fine grained, subangular, well sorted; siliceous; hard; clean; sparse siltstone fragments.

DEPTH  
(feet)

1248-1256	Sandstone - as above.
1256-1327	No samples.
1327-1331	Sandstone - white (N9); fine to coarse with some pebble fragments and sparse very coarse fragments, subangular to subrounded, moderately poor sorting; siliceous; brittle; clean; sparse siltstone fragments.
1331-1340	No samples.
1340-1345	Sandstone - white (N9); medium to coarse, mostly coarse; angular to subrounded, moderate sorting; siliceous; brittle; clean; 10%+ siltstone; milky quartz also.
1345-1350	Sandstone - as above; fine to coarse.
1350-2362	No samples.
2357-2362	Siltstone - medium gray (N5); firm, massive; coal laminae; coal; sparse dark brownish gray siltstone and subgraywacke type sandstones.
2362-2388	No samples.
2388-2396	Sandstone - as 1340-1345.
2396-2402	No sample.
2402-2406	Sandstone - as 1340-1345; mica; 5% siltstone.
2406-2410	Sandstone - as 1340-1345.
2410-2413	Sandstone - as 1340-1345; angular milky quartz - pebble sized.
2413-2420	No sample.
2420-2425	Sandstone - as 1340-1345; angular milky pebble fragments.
2425-2429	Sandstone - as 1340-1345; medium to very coarse; angular pebble fragments.
2429-2432	Sandstone - as 1340-1345; fine to very coarse with some pebble fragments.
2432-2435	No sample.
2435-2445	Sandstone - as 1340-1345; fine to medium; sparse pebble fragments; sparse coal.
2445-2452	Sandstone - as 2435-2445.

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DEPTH  
(feet)

2452-2457 No sample.

2457-2462 Sandstone - light gray (N7); fine to coarse, subangular with some angular, moderately poor sorting; siliceous; very sparse coal fragments; sparse rock fragments.

2462-2467 Sandstone - as 2457-2462; 25% dark gray sandy siltstone.

2467-2471 No sample.

2471-2478 Sandstone - as 2457-2462; sparse rock fragments.

2473-2476 Sandstone - as 2457-2462; 10% fine rock fragments; iron oxide stains.

2478-2507 No sample.

2507-2510 Sandstone - light gray (N7), fine to pebble, angular to subangular, moderately poor sorting; siliceous; brittle; relatively clean; coal.

2510-2514 No sample.

2514-2518 Sandstone - as above.

2518-2520 Sandstone - as above; fine to coarse; very sparse rock fragments.

2520-2530 No sample.

2531-253 Sandstone - as 2518-2520.

2530-2551 No sample.

2551-2558 Sandstone - as 2518-2520.

2558-2571 No samples.

2571-2576 Sandstone - as 2518-2520.

2576-3092 No samples.

3092-3100 Sandstone - light gray (N7), fine to coarse, angular to subangular, moderately poor sorting; siliceous; brittle; rose quartz in angular coarse fragments; pyrite; with 45%± Siltstone - fine fragments of medium dark gray to medium light gray (N4-N6); soft, locally with fine mica; some local interbedding with sandstone; local carbonaceous areas; sparse grayish red (10R 4/2) siltstone fragments.

3100-3107 Sandstone/Siltstone - as above; 50% siltstones.

DEPTH  
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3107-3115	Sandstone/Siltstone - as above; increasing amount of carbon in siltstone; soft; medium dark gray to dark gray.
3115-3123	Siltstones - medium gray, medium light gray, brownish gray and grayish red (10R 4/2); moderately firm to soft; some mottled; local sandiness.
3123-3128	Siltstones - as above; local areas of calcareous siltstone, with fine, angular quartz grains; 1-3% sandstone fragments.
3128-3135	Siltstones - as above.
3135-3144	Siltstones - as above; about 50% grayish red siltstones.
3144-3151	Siltstones - 50% medium gray and grayish red (10R 4/2); light gray sandstone - fine to medium grained, subangular, moderate sorting; siliceous; hard; grading into light gray siltstones; calcareous areas in all colors of siltstones; local slickensides; very sparse, very fine coal fragments in medium gray siltstone; local mica; sparse crystalline areas.
3151-3161	Siltstones - as 3144-3151.
3161-3189	No samples.
3189-3195	Siltstone - medium gray (N5), firm, sandy and micaceous, interbedded with sandstone (as 3144-3151), about 25%; sparse, fine coal laminae; sparse grayish red siltstone.
3195-3202	Siltstone - as 3189-3195.
3202-3208	Siltstone - as 3189-3195.
3208-3215	Siltstone/Sandstone - 50% each; <u>Siltstone</u> - medium dark gray (N4); firm, sandy, micaceous; sparse amounts of grayish red siltstone; <u>Sandstone</u> - light gray (N7); fine to medium, subangular, poorly sorted; siliceous; hard; sparse rock fragments; sparse coal.
3215-3233	No sample.
3233-3243	Siltstone/Sandstone - as 3208-3215.
3243-3252	Siltstone/Sandstone - as 3208-3215.
3252-3255	No sample.
3255-3263	Sandstone - very light gray (N8); very fine to fine, subangular, moderately well sorted; siliceous; hard; <u>clean</u> .
3263-3270	Sandstone - as 3255-3263; 5% siltstone fragments.

DEPTH  
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3270-3278 Sandstone - as above.

3278-3285 Sandstone - as above.

3285-3291 Sandstone - as above.

3291-3297 Sandstone - as above; 25% siltstone.

3297-3306 Sandstone - as 3291-3297; very sparse pyrite granular masses.

3306-3309 Sandstone/Siltstone - 50% each; sandstone as above; medium dark gray siltstone with some grayish red siltstone, firm, locally mottled; very sparse fine mica and very sparse carbonaceous matter.

3309-3312 Siltstone - as 3306-3309; with 30% sandstone fragments.

3312-3319 Siltstone - as 3306-3309; with 30% sandstone fragments.

3319-3327 Siltstone - as 3306-3309; with 30% sandstone fragments.

3327-3334 Siltstone - as 3306-3309.

3334-3340 No samples.

3340-3346 Sandstone - as 3306-3309; 15% siltstone - medium dark gray.

3346-3361 No samples.

3361-3365 Sandstone -

3365-3369 Sandstone - as 3306-3309; 10% siltstone - most is grayish red; soft.

3369-3372 Sandstone - as above.

3372-3381 Sandstone - as above.

3381-3387 Sandstone - as above.

3387-3393 Siltstone - medium dark gray (N4); firm, locally finely micaceous; calcareous; grayish red siltstone fragments; sandstone fragments.

3393-3401 Siltstone - as 3387-3393.

3401-3411 Siltstone - as above.

3411-3420 Siltstones - medium dark gray (N4) and grayish red (10R 4/2); some greenish gray (5GY 6/1); moderately soft; locally micaceous or sandy.

DEPTH (feet)	
3420-3427	Siltstones - as above; interbedded with <u>Sandstone</u> (50%) - very light gray (N8), very fine to fine, subangular, moderately well sorted; siliceous; clean.
3427-3432	Siltstones/Sandstone - as above.
3432-3451	No sample.
3451-3458	Siltstone - medium dark gray (N4); moderately firm; 10-15% sandstone fragments.
3458-3511	No sample.
3511-3519	Siltstone - as 3451-3458.
3519-3521	Siltstone - as 3451-3458.
3521-3525	No samples.
3525-3535	Siltstone - as 3451-3458; no sandstones.
3537-3550	Siltstone - as above.
*3546-3555	Is as 3588-3593; limestone.
3555-3588	No sample.
3588-3593	Siltstone/Limestone, argillaceous and fossiliferous - medium dark gray (N4) - approximately 50% each; <u>siltstone is calcareous and non-calcareous; limestone - micritic, argillaceous, fossiliferous - crinoids, punctate brachiopod, brachiopods, bryozoa; pyrite granular masses and small interconnected lense-shaped granular masses interbedded with siltstone; or fossiliferous limestone, sparse crystalline (calcite) matter; sandy fragments.</u>
3593-3595	Siltstone/Limestone - as 3588-3593; some light brownish gray limestone (5YR 6/1); fossiliferous, oolitic.
3622-3628	Limestone/Siltstone - as 3588-3593; including oolitic zones, and pyrite.
3628-3668	No samples.
3668-3681	Limestone/Siltstone - as above.
3681-3696	No samples.
3696-3707	Limestone - medium light gray to medium gray (N6-N5); light brownish gray (5YR 6/1); micritic; fossiliferous; oolitic; sandy and oolitic in very light gray fragments.

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DEPTH  
(feet)

3707-3757 No samples.

3757-3790 Limestone - light gray and medium gray (N7 and N5); micritic; no fossils; oolitic in light gray limestone; local crystalline areas.

3790-3805 Limestone - as above.

3855-3865 Limestone - very light gray to light gray (N8-N7) and light brownish gray (5YR 6/1); micritic; soft; sparsely oolitic.

3865-3878 Limestone - as above.

3878-4000 No samples.

4000-4015 \*Siltstones - 30% grayish red (10R 4/2), 70% medium to medium dark gray (N5-N4); sandy with very fine quartz grains and rare coarse grains.  
\*"Sand Grains" are angular, quartz and calcium carbonate. Also, entire sample 3696-3707 might be 3696-3707.

Joan K. Polzin