

A43BU

OPERATOR Pipeline Construction and Drilling Co.
FARM: George H. Belcher, Et Al
WELL NO. 1-A
LOCATION: Buchanan County
8700' N of 37° - 15'
7800' E of 82° - 05'
ELEVATION: 1574.90' GR
TOTAL DEPTH: 3812'
DRILLING COMMENCED: February 25, 1950
WELL COMPLETED: August 17, 1950
RESULT: Gas Well

WELL LOG

DEPTH
(feet)

0 - 1596 No samples, log (strip) reconstructed from Drillers Log.

1596 - 1602 Sandstone - white (N9); fine to medium with moderate amount coarse grains, subangular, moderate sorting clear quartz grains with sparse amount of larger grains being frosted or broken from larger fragments; siliceous, very sparse feldspar; sparse very fine rock fragments.

1602 - 1625 Sandstone/Siltstone's - sandstone - as above; siltstone's - medium dark gray (N4) with some grayish red.

1625 - 1632 Siltstone - medium dark gray (N4) - hard, with abundant very fine rounded siderite nodules; some varigated, some grayish red (10R 4/2), greenish gray.

1632 - 1641 Siltstone - medium dark gray (N4) hard, argillaceous, siliceous.

1641 - 1645 As 1625 - 1632 with some light gray siltstone, being sandy with F-C sized quartz grains.

1665 - 1685 Grayish red (10R 4/2) - moderately soft, micaceous, sparse quartz grains.

1685 - 1692 Siltstone/Sandstone - 50% each; siltstone as 1625 - 1632 and sandstone light gray (N7.5) - fine to coarse, moderate to poorly sorted, subangular clear quartz grains; siliceous; hard; 5% rock fragments coal.

1692 - 1700 Siltstone - grayish red - as 1665 - 1685!.

1700 - 7112 As above.

7112 - 1743 Siltstone's - varigated - as 1641 - 1665; grayish red is sandy in part and grades locally to sandstone, silty.

1743 - 1912 Medium gray (N5) - hard, locally finely micaceous with interbedded sandstone at 1799 - 1810 (sandstone - lt. gray - fine ~~silty~~)

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- to medium, poorly sorted, siliceous with micas and very fine rock fragments).
- 1912 - 1958 Siltstone/Shale - dark gray (N3) - soft, argillaceous, shales fissile,? pyrite grains, micaceous; very sparse local carbonaceous film on laminae surface some with plant impressions.
- 1958 - 2099 Siltstone - medium light gray (N6) - hard, argillaceous, mottled, locally sandy.
- 2099 - 2177 Sandstone - light gray to white - (N7-9), fine to medium, moderately sorted, subangular clear quartz grains; siliceous; hard; clean.
- 2177 - 245 Limestone - medium gray (N5) - fine grained to sandy; sandy part being in a transitional area between above sandstone and limestone, unsandy; fossiliferous; pyrite.
- 2245 - 2259 Siltstone - grayish red (OR 4/2) - soft, silty, micaceous and 15% ± siltstone - medium gray - soft, sandy to silty, sparsely micaceous and some greenish gray - soft, silty.
- 2259 - 2334 Sandstone - medium light gray (N6) - fine to medium, moderately poorly sorted, subangular clear quartz; siliceous; from 2259 - 2264; subgray-wacke type; 15 - 20% fine siltstone fragments - grayish red and medium gray, and micas; white clean at and after 2264 - with some local feldspathic areas.
- 2334 - 2263 Siltstone, calc. - medium gray (N5) - firm, some areas of fossil fragments calcareous locally.
- 2363 - 2407 Siltstone - grayish red - as 2245 - 2259.
- 2407 - 2940 No samples.
- 2940 - 3005 Siltstone - medium gray - (N5) massive siliceous, very fine black fragments of siltstone/carbonaceous material.
- 3005 - 3014 Limestone - grayish black (N2) - silty, hard limestone interbedded with fine grained, fossiliferous and pelloidal limestone; oolitic zones.
- 3014 - 3040 Limestone - light gray (N7), light grayish brown (5YR 6/1) and medium dark gray (N4), silty (as above) moderate to soft, micritic, oolitic, pyritic and 50% silty, dark limestone as above.
- 3040-3055 Limestone - medium to medium light gray-(N5-N6) - micritic, moderately firm, sparsely, fossiliferous, oolitic (concentric).
- 3055 - 3110 Siltstone, calcareous - medium dark gray (N4) hard, siliceous - almost a very fine grained, well sorted sandstone locally; calcareous and grading to limestone, silty.
- 3110 - 3176 Limestone - as 3040 - 3055; white soft limestone also.

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- 3176 - 3200 Siltstone, calc. medium dark gray (N4) - as 3055 - 3110.
- 3200 - 3215 Limestone - dark gray (N3) - with 10% [±] light gray (N7) - hard, micritic with sparse scattered crystals of calcite and crystalline crusts; pyrite; light gray - soft, micritic, oolitic.
- 3215 - 3229 Limestone, oolitic - medium and light gray (N5/N7) - soft, sparite, oolitic (sample is totally oolitic).
- 3229 - 3235 Limestone - medium dark gray (N4) - hard, micritic, with crystalline areas, fine black inclusions.
- 3235 - 3374 Limestone - medium gray, medium dark gray and light gray (N5, N4) and N7) - hard, micritic, with some lighter and softer areas. No oolites or fossiliferous zones.
- 3374 - 3500 Limestone - medium gray (N5) - moderately hard, micritic; sparse crystalline areas and very sparse oolitic fragments - "drift" fragments.
- 3500 - 3568 Limestone - light gray (N7) - moderate to soft, micritic becoming lighter in color toward bottom; some intraclasts/sparite, Ostracods toward bottom (3547 - 3555').
- 3568 - 3583 Sandstone ? - medium gray (N5) - very fine to fine, subangular clear and smoky quartz grains; hard; siliceous; sparse glauconite.
- 3583 - 3600 Sandstone/Siltstone - medium gray/grayish red siltstone 20% [±] (1 or 4/2) moderately soft, silty to finely sandy.
- 3600 - 3616 Sandstone/Siltstone - sandstone medium gray to grayish red - as above, but graywacke to subgraywacke type with abundant rock fragments of grayish red siltstone; color-zoned. Crinoid stems (?) of calcite/dolomite; pyrite-chalcopyrite masses.
- 3616 - 3638 Sandstone - light gray - (N7), medium gray (N5) and grayish red - very fine to fine, moderately well to well sorted; subangular; clear quartz grains; siliceous; hard; subgraywacke type-green (glauconite), black and reddish rock fragments, pyrite; with grayish red siltstone fragments disappearing by 3628'.
- 3638 - 3812 Light gray and medium light gray (N7 and N5) - as above; not subgraywacke type; fairly clean.

J. K. Polzin