

N-S-29

Walker?

M 1044

SAMPLE ANALYSIS

POCAHONTAS LAND CORPORATION #26
SERIAL NO. 1295

DRILLING COMMENCED:
DRILLING COMPLETED:

MCDOWELL COUNTY, WEST VIRGINIA

ELEVATION: 1602

W 151 - C
Located 3.5 S of 13725' and 108' E 1/2

G. L. Cabot

Acklins Dist

- 54- 65 Silty gray shale
- 65-128 Medium grained white sand; micaceous; shaley
- 128-136 Medium grained white sand
- 136-442 Gray shale
- 442-452 Dark gray shale with approximately 2% coal
- 452-460 Dark gray shale with just a trace of coal
- 460-488 Gray, silty shale
- 488-505 Dark gray shale, with approximately 5% coal
- 505-513 Silty gray shale
- 513- Medium grained gray sand
- 533-542 Medium gray sand
- 542-593 Gray shale and brown, shaley siltstone
- 593-615 Gray to white medium grained sand, with small amount of carbonaceous shale
- 615-629 Dark gray to black shale
- 629-682 Gray siltstone and fine grained gray sand
- 682-756 Silty gray shale
- 756-787 Medium grained gray sand
- 787-808 Medium grained white sand
- 808-817 Light gray silty lime, with small amount of green-gray siltstone
- 817-836 Fine grained gray sand; lime cemented
- 836-855 Gray-green siltstone and light gray impure lime; traces of calcareous red shale
- 855-864 Red shale
- 864-883 Calcareous red shale and light gray siltstone
- 883-905 Gray shale
- 905-964 Calcareous gray siltstone and shale
- 964-974 Gray shale
- 974-993 Gray shale and light gray gritty lime
- 993-1018 Fine to medium grained white lime cemented sand
- 1018-1064 Calcareous gray shale
- 1064-1077 Calcareous siltstone
- 1077-1098 Lime cemented fine grained gray sand
- 1098-1105 Very limey gray siltstone
- 1105-1137 Calcareous gray shale and siltstone
- 1137-1160 Limey gray sand
- 1160-1284 Gray shale
- 1284-1321 Silty gray shale
- 1321-1325 Medium grained white sand, with \pm 30% dark gray shale
- 1325-1333 Medium grained white sand
- 1333-1356 Fine grained white sand
- 1356-1371 Medium to coarse grained white sand, grains angular and quartzitic
- 1371-1408 Medium grained white sand
- 1408-1423 Red and gray shale; gray shale slightly calcareous
- 1423-1433 Silty gray shale calcareous
- 1433-1443 Red Shale
- 1443-1447 Heavily limed fine grained white sand (Ravencliff?)
- 1447-1462 Calcareous gray siltstone to fine grained white sand; sand lime cemented
- 1462-1474 Very limey white grained sand (Ravencliff)
- 1474-1481 30% gray shale; 70% gray and brown fossiliferous lime (Avis)
- 1481-1532 Gray and brown fossiliferous lime
- 1532-1695 Calcareous red shale
- 1695-1732 Calcareous ~~xx~~ gray shale and siltstone
- 1732-1742 Gray siltstone and shale
- 1742-1752 50% red shale; 50% gray dolomite shale
- 1752-1842 Calcareous red shale
- 1842-1872 Calcareous gray siltstone
- 1872-1921 Light gray shale
- 1921-1942 Calcareous gray and gray-green silty shale
- 1942-1965 Same as above with approximately 20% red shale
- 1965-1991 Gray calcareous shale with approximately 30% impure medium gray lime
- 1991-1995 Red and gray shale

Princeton?

- 1995-2000 Fine grained white sand with approximately 50% red and gray shale
2000-2015 Very limy gray shale
2015-2070 Medium gray shale with approximately 20% impure light gray lime
2070-2089 Impure medium to light gray lime
2089-2113 50% pinkish siltstone; 50% gray silty shale
2113-2123 Gray siltstone to fine grained gray sand
2123-2139 Limey gray shale
2139-2179 Red shale
2179-2240 Silty gray shale
2240-2272 Red shale
2272-2286 Gray shale
2286-2309 Calcareous gray siltstone
2309-2323 Gray shale
2323-2327 Gray shale
2327-2334 50% fine grained white sand; 50% gray shale
2334-2387 Gray shale
2387-2416 Gray and gray-brown fossiliferous lime; 40% gray shale
2416-2437 Gray shale
2437-2466 Impure, dark gray lime 20%; 80% gray shale
2466--2503 Dark, brownish-gray lime; shaley
2503-2510 50% gray shale; 50% white, fine grained sand
2510-2542 Impure, gray to white fine grained sand; shaley
2542-2636 Dark gray shale
2636-2680 Light and medium gray fossiliferous lime, 60%; 40% gray shale
2680-2692 Medium gray lime; shaley
2692-2740 Dark to medium gray oolitic lime with 20% gray shale. Lime is slightly fossiliferous
2740-2764 Calcareous gray shale
2764-2772 Gray shale
2772-2811 Calcareous, medium gray shale
2811-2820 50% gray shale, 50% dark gray slightly fossiliferous lime
2820-2833 Dark to medium gray oolitic lime (T.B.L?)
2833-2868 Medium to light gray lime. Oolitic, with a few fossils and approx. 5% greenish-gray dolomitic lime (Big Lime)?
2868-2886 Greenish-gray, gritty lime; slightly dolomitic. Fossil traces
2886-2955 Dark gray lime; slightly fossiliferous; dense
2955-3004 Light and medium gray transparent lime; (Big Lime), oolitic and with a little greenish-gray dolomitic lime
3004-3476 Medium gray lime (Big Lime). (Oolitic 3359-3457).
3476-3482 Medium gray lime with approx. 20% light gray dolomitic lime
3482-3526 (B. Big Lime) Light gray dolomitic lime
3526-3538 Macradly shale
3538-3576 Medium gray calcareous shale, with considerable glauconite in upper portion
3576-3617 Dolomitic or calcareous gray siltstone to very fine grained gray sand. Numerous nodules of glauconite, and some pyrite veining noted from 3600-3607
3617-3634 Medium gray, gritty shale
3634-3651 Gray, silty shale
3651-3656 Gray, shaley siltstone; glauconite, slightly calcareous
3710-3800 Gray siltstone
3800-3917 Silty gray shale
3917-3931 Silty gray shale
3931-4095 MISSING
4095-4151 Medium gray shale
4151-4166 Brown shale (dark brown, coffee colored)
4166-4177 Gray and brown shale with numerous pyrites.
4177-4186 Gray coarse siltstone end shale; siltstone is calcareous
4186-4193 Dark gray shale and medium gray siltstone
4193-4200 Fine to medium grained white sand, slightly lime cemented. Some coarse grained, clear, semi-rounded sand particles. (Samples contain 20% medium to light gray shale - probably cavings).
4200-4206 Medium gray shale 90%; 10% fine grained white sand. (Hole caving badly, and drilled without water. Samples contaminated and of doubtful value with relation to depth. A later sample, presumably from 4206, brought up on bit in aquagel mixture, showed 95% white, fine grained sand).