TEST WELL
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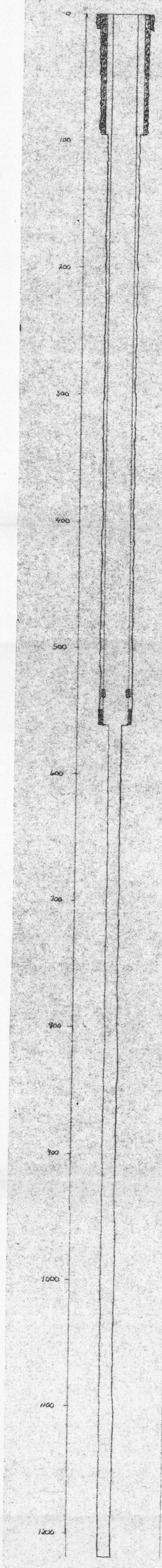

TIVA CANYON MEMBER

TUFF, ASH FLOW, MEDIUM-GRAY TO MEDIUM-LIGHT-GRAY, DENSELY WELDED, DEVITRIFIED; PUMICE, LIGHT GRAY, VERY LIGHT-GRAY; LESS THAN 2 % PHENOCRYSTS; RARE VOLCANIC LITHIC FRAGMENTS; MAY CORRELATE WITH "LOWER LITHOPHYSAL UNIT"

TUFF, ASH FLOW, DARK-YELLOWISH BROWN AND BROWNISH-GRAY, DENSELY WELDED, DEVITRIFIED; PUMICE, DARK-YELLOWISH BROWN; LESS THAN 2 % PHENOCRYSTS; RARE DARK-REDDISH-BROWN AND GRAYISH-RED VOLCANIC LITHIC FRAGMENTS.

TUFF, ASH FLOW, PALE-BROWN AND DARK-YELLOWISH-BROWN, DEVITRIFIED; PUMICE, MODERATE-REDDISH-ORANGE DEVITRIFIED (OCCASIONAL PUMICE FRAGMENTS ALTERED TO CLAY); 1-2 % PHENOCRYSTS; RARE GRAYISH-RED VOLCANIC LITHIC FRAGMENTS.

TUFF, ASH FLOW, PARTIALLY TO NONWELDED, VITRIC; PUMICE, PALE-YELLOWISH-ORANGE, VITRIC; 1 % PHENOCRYSTS (SANIDINE AND PLAGIOCLASE, RARE BIOTITE); RARE LIGHT GRAY PHYOLYTIC LITHIC FRAGMENTS; ABUNDANT DARK-YELLOWISH-ORANGE AND BLACK GLASS SHARDS

TUFF, BEDDED, REWORKED, VITRIC

TOPOPAH SPRING MEMBER

TUFF, ASH-FLOW (?)

TUFF, ASH FLOW, MODERATE-REDDISH-ORANGE AND MODERATE-RED, NONWELDED, VITRIC; ABUNDANT GRAYISH-ORANGE, LIGHT BROWN, AND MODERATE-RED, VITRIC PUMICE; 3-4 % PHENOCRYSTS (SANIDINE, PLAGIOCLASE, AND BRONZE BIOTITE

TUFF ASH-FLOW

PARTLY TO MODERATELY WELDED, VERY LIGHT GRAY, VITRIC [LOWER 0.3-0.6 m PALE-REDDISH-BROWN VITROPHYRE]

TUFF, ASH-FLOW, BROWNISH-GRAY, DENSELY WELDED, DEVITRIFIED; PUMICE, BROWNISH GRAY, DEVITRIFIED; 10 % PHENOCRYSTS (SANIDINE, PLAGIOCLASE, AND BRONZE BIOTITE); OAPROCK

PALE-RED AND GRAYISH-RED, MODERATELY WELDED, VAPOR PHASE CRYSTALLIZATION; PUMICE, COMMONLY PALE-RED AND LIGHT-BROWNISH GRAY, VAPOR-PHASE; 5-7 % PHENOCRYSTS (SANIDINE, PLAGIOCLASE, AND BRONZE BIOTITE)

TUFF, ASH-FLOW, LIGHT-GRAY AND LIGHT-BROWNISH-GRAY, DENSELY WELDED, DEVITRIFIED, LITHOPHYSAL ZONE (?); PUMICE, LIGHT-GRAY, VERY LIGHT GRAY, AND LIGHT-BROWNISH GRAY, DEVITRIFIED; 3-6 % PHENOCRYSTS (SANIDINE, PLAGIOCLASE, AND RARE BIOTITE); SIZE OF BIT CUTTINGS DECREASE CONSPICUOUSLY BELOW 155.4 m.

TUFF, ASH-FLOW, BROWNISH-GRAY, LIGHT-BROWN, AND MODERATE-BROWN, DENSELY WELDED, DEVITRIFIED; PUMICE, BROWNISH-GRAY AND MODERATE-BROWN, DEVITRIFIED; LESS THAN 1 % PHENOCRYSTS (SANIDINE AND PLAGIOCLASE); TELEVISION CAMERA INDICATES A LITHOPHYSAL ZONE FROM 215.8 TO 305.7 m. WITHIN ZONE, BIT CUTTINGS ARE RELATIVELY LARGER AND MOTTLED.

TUFF, ASH-FLOW, BLACK, GLASSY VITROPHYRE

TUFF, ASH FLOW, PALE-YELLOWISH-ORANGE, PARTLY WELDED, VITRIC; CONTAINS ABUNDANT BLACK GLASS SHARDS

TUFF, ASH FLOW, PINKISH-GRAY, AND YELLOWISH-GRAY, NONWELDED (FRIABLE), VITRIC [SLIGHTLY ARGILLIC (?)]; PUMICE, GRAYISH-PINK, VITRIC AND ARGILLIC; ABUNDANT BLACK GLASS SHARDS; INTERVAL FROM 393.8 TO BASE CONTAINS ABUNDANT LARGE LITHIC FRAGMENTS; NO BEDDED INTERVAL RECOGNIZED AT BASE OF INTERVAL.

TUFF, ASH FLOW, MODERATE-ORANGE-PINK, VERY PALE ORANGE, AND GRAYISH YELLOW, NONWELDED TO PARTLY WELDED, DEVITRIFIED AND ZEOLITIZED (?); UPPER 11 m SILICIFIED (?), PUMICE, WHITE, PINK, AND GRAYISH-YELLOW, ZEOLITIZED (?); LESS THAN 1 % PHENOCRYSTS (QUARTZ AND BIOTITE); ABUNDANT LIGHT-GRAY AND MEDIUM-LIGHT-GRAY, AND GRAYISH-RED RHYOLITIC LITHIC FRAGMENTS. SIDE-WALL SAMPLES COLLECTED AT 399.9, 432.8, 442.9, AND 472.4 m; ALL SIDEWALL SAMPLES VARY IN COLOR; ALL SAMPLES ARE NON-WELDED, ZEOLITIZED (?), AND PARTLY SILICIFIED; SAMPLE AT 432.8 m INDICATES A DECREASE IN DEGREE OF SILICIFICATION.

TUFF, BEDDED, REWORKED, YELLOWISH-GRAY, PALE-REDDISH-BROWN, GRAYISH-YELLOW, DEVITRIFIED AND ZEOLITIZED (?); LOWER 4.6 m, PALE-RED, HIGHLY SILICIFIED.

PROW PASS MEMBER

TUFF, ASH FLOW

TUFF, ASH FLOW

TUFF, ASH FLOW

GRAYISH-YELLOW, NONWELDED, ZEOLITIC; PUMICE, GRAYISH-YELLOW, ZEOLITIC; 10 % PHENOCRYSTS OF QUARTZ, SANIDINE, AND BIOTITE

PALE REDDISH-BROWN, PARTLY WELDED, DEVITRIFIED (SOME VAPOR PHASE PUMICE); APPEARS MODERATELY SILICIFIED; 7-8 % PHENOCRYSTS (QUARTZ, SANIDINE, BIOTITE); RARE PALE-REDDISH BROWN MUDSTONE LITHIC FRAGMENTS; SIDEWALL SAMPLE COLLECTED 504.7 m IS LIGHT-OLIVE-GRAY, PARTLY WELDED, DEVITRIFIED (VAPOR PHASE CRYSTALLIZATION); PUMICE, LIGHT-BROWN, VAPOR PHASE; 5 % PHENOCRYSTS (QUARTZ, SANIDINE, PLAGIOCLASE); RARE MUDSTONE LITHIC FRAGMENTS.

YELLOWISH-GRAY, LIGHT GRAY, AND MEDIUM-LIGHT-GRAY, PARTIALLY WELDED, DEVITRIFIED; PUMICE, LIGHT-GRAY DEVITRIFIED, WHITE TO MODERATE-ORANGE-PINK AND SLIGHTLY ZEOLITIC (?) FROM 536.4 m TO BASE; 5-10 % PHENOCRYSTS [QUARTZ, PLAGIOCLASE, SANIDINE, BIOTITE, AND PYROXENE (?)]; SPARSE MODERATE-REDDISH-BROWN MUDSTONE LITHIC FRAGMENTS; CONTAMINATED SAMPLES FROM 539.5 TO 573.0 m.

TUFF, ASH-FLOW, DUSKY-YELLOW, PARTLY WELDED, HIGHLY ZEOLITIC (?) AND SILICIFIED; PUMICE, DUSKY-YELLOW, ZEOLITIZED (?) AND SILICIFIED; 10 % PHENOCRYSTS (QUARTZ, SANIDINE, PLAGIOCLASE, AND BIOTITE); SPARSE MODERATE-REDDISH-BROWN MUDSTONE LITHIC FRAGMENTS

TUFF, ASH FLOW, YELLOWISH-GRAY, MODERATE-ORANGE-PINK, AND DUSKY-YELLOW; PARTLY WELDED, ZEOLITIC AND VITRIC (?) [APPEARS ONLY SLIGHTLY ZEOLITIZED (?)]; PUMICE, WHITE, PALE-GREENISH-YELLOW, AND DUSKY-YELLOW, ZEOLITIC AND VITRIC (?); 10 % PHENOCRYSTS (QUARTZ, SANIDINE, PLAGIOCLASE, AND BIOTITE); SPARSE MODERATE-REDDISH-BROWN MUDSTONE LITHIC FRAGMENTS; X-RAY ANALYSIS OF BIT CUTTINGS INDICATES THE PRESENCE OF CLINOPTILOLITE AND MORDENITE (ESTIMATED AT 30 %)

BULLFROG MEMBER

TUFF, BEDDED, REWORKED, LIGHT-RED, MODERATE-REDDISH-ORANGE, ZEOLITIZED

TUFF, ASH-FLOW, MEDIUM-GRAY AND PALE-YELLOWISH-BROWN, PARTLY WELDED, DEVITRIFIED; PUMICE, VERY LIGHT GRAY TO LIGHT GRAY, DEVITRIFIED [VAPOR-PHASE CRYSTALLIZATION (?)]; 15 % PHENOCRYSTS (QUARTZ, SANIDINE, PLAGIOCLASES, AND BRONZE BIOTITE)

TUFF, ASH FLOW, LIGHT-GRAY AND LIGHT-BROWNISH-GRAY, PARTLY WELDED, VAPOR-PHASE CRYSTALLIZATION (?); PUMICE, MEDIUM-LIGHT-GRAY, VAPOR PHASE; 10 % PHENOCRYSTS (QUARTZ, PLAGIOCLASE, SANIDINE, AND BIOTITE).

TUFF, ASH FLOW, LIGHT-BROWN AND MODERATE-YELLOWISH-BROWN, MODERATE TO DENSELY WELDED, SLIGHTLY ALTERED TO ZEOLITES (?); PUMICE, LIGHT-BROWN, SILICIFIED (?); 5-7 PERCENT PHENOCRYSTS (QUARTZ, PLAGIOCLASE, SANIDINE, AND BIOTITE); RARE GRAYISH-RED VOLCANIC LITHIC FRAGMENTS; PUMICE FRAGMENTS ARE BLACK AND GLASSY FROM 765.0 TO 774.2 m.

TUFF, ASH FLOW; GRAYISH-ORANGE-PINK AND LIGHT-BROWN, NONWELDED TO PARTLY WELDED; DEVITRIFIED; PUMICE, LIGHT-BROWN DEVITRIFIED; 10 % PHENOCRYSTS (QUARTZ, PLAGIOCLASE, SANIDINE, AND BIOTITE); RARE MEDIUM-LIGHT-GRAY VOLCANIC LITHIC FRAGMENTS; BIT CUTTING SAMPLES ARE CONTAMINATED FROM 792.5 TO 826.0 m

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