I.D. NUMBERS

OPERATOR: R.E. Davis
FARM: W.A. Smith
WELL NUMBER: 1
LOCATION: Rockingham Co., Bergton 7.5' quad.
LAT.: 10,800' N. of 38° 45'
LONG.: 4,950' E. of 79° 00'
ELEVATION: 1619.75'
TOTAL DEPTH: 3076'
DRILLING COMMENCED:
WELL COMPLETED: 10 April 1957
RESULT: Dry, Plugged & Abandoned.

V.D.M.R. 352 (B-11)
OIL & GAS INSPECTOR RO-14
API 45-165-19700-00-03

LOGGED BY Bartlett & Associates
(THB, 5/81)

GEOLOGIC LOG

INTERVAL	DESCRIPTION
2992-3002	SHALE, dk. gray to black, fairly hard; slightly calcareous and pyritic, carbonaceous.
3002-05	No sample
3005-19	SHALE, as above (95%); SANDSTONE, dark gray, medium to fine grained, glassy qtz. grains in SHALE matrix - probably transition zone; SANDSTONE, fine to fine medium, white to lt. gray, subangular, well-sorted, interlocking qtz. grains w/ intergranular calcite. Occasional well-rounded frosted qtz. grains, loose and in mosiac.
3019-22	SHALE and SANDSTONE, as above. SHALE, probably cavings. SANDSTONE, low to tight porosity.
3022-24	Siltstone, brownish-yellow, dark to medium brick red and creme colored, very soft rounded fragments. Very minor amount SANDSTONE, as above. Drill tool debris, large fragments, common SHALE, dk. gray, as above (Cavings.)
3024-26	SANDSTONE, lt. brown to white, very fine to med. grained, subangular to angular, glassy, interlocking quartz grain mosiac w/ a little intergranular calcite and occasional subrounded dk. gray, fine-sized rock fragments included in the quartzite. Porosity v. low to zero. Well to moderately well-sorted, clean. Common fine bit debris.
3026-28	SANDSTONE, as above.
3028-32	SANDSTONE, lt. gray to white, v. fine to fine grained, angular to subangular glassy quartz grains. Slightly calcareous w/ a few fine white calcite crystals and qtz. grain coatings. Sample mostly disaggregated. (Composite of two sample intervals.)
3032-37	SANDSTONE, as above. Some quartz grains are subrounded and frosted. Sample mostly disaggregated.
3037-40	SANDSTONE, as above. Disaggregated. (Composite of two sample intervals.)

3040-43	SANDSTONE, lt. gray to lt. grayish brown, very fine grained, calcareous, angular, glassy to subrounded frosted qtz. grains. Sample mostly disaggregated. (Composite of two sample intervals)
3043-47	SANDSTONE, med. gray, v. fine to fine grained w/ occasional med. size grain, good to well sorted w/ rare non-qtz. grain. Grain-supported w/ intergranular calcite and fair porosity and matrix-supported w/ low porosity. Qtz grains are angular - subangular glassy and subrounded frosted. Rock fragments appear moderately hard, very calcareous.
3047-52	SANDSTONE, as above. Abundant white coarse crystalline calcite. probably fracture fillings (?).
3052-55	SANDSTONE, lt. gy.-lt. grayish brown, v. fine to medium grained, grain-supported to partially matrix-supported, very calcareous, moderately sorted, glassy to frosted, subangular qtz. grains, Low to poor porosity.
3055-59	SANDSTONE, as above, very few med. size grains; Abundant white crystalline calcite. Sample mostly disaggregated. Matrix-supported fragments fairly soft.
3059-64	SANDSTONE, m. gy. - m. brn. gray, v. fine to fine grained, very calcareous matrix, partially matrix-supported, abundant white crystalline calcite - apparently fracture fillings. Qtz. grains subangular w/ minor subrounded; mostly glassy. Porosity low.
3064-69	SANDSTONE, as above. Abundant white crystalline calcite.
3069-72	SANDSTONE, white to light gray, v. fine to med. grain, clean to partially matrix supported, very calcareous, subangular glassy to subrounded/rounded frosted qtz. grains; white crystalline calcite common.
3072-76	SANDSTONE, lt. gray, very fine grained, subangular glassy qtz. grain. Sample disaggregated and ground.

0-2992' Not examined

2992- 3018' Millboro black shale

3018-3076' Oriskany sandstone - orthoquartzite, slightly calcareous and tight to sandstone, very calcareous, soft lower in the well. Abundant white crystalline calcite in lower portion probably indicates fracture system.