

I.D. NUMBERS

OPERATOR: R.E. Davis
 FARM: W.H.B. and Mary Dove
 WELL NUMBER: 1
 LOCATION: Rockingham Co., Bergton 7.5' quad.
 LAT.: 1,100' N. 38° 45'
 LONG.: 12,350' W. 78° 55'
 ELEVATION: 1927.5'
 TOTAL DEPTH: 4058'
 DRILLING COMMENCED: 5 Nov. 1956
 WELL COMPLETED: 19 Jan. 1957
 RESULT: Dry and Abandoned

V.D.M.R. 140 (B-12)
 OIL & GAS
 INSPECTOR RO-13
 API 45-165-19699-00-03

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

GEOLOGIC LOG

<u>INTERVAL</u>	<u>DESCRIPTION</u>
3954-58	SHALE, black, carbonaceous, slightly silty and calcareous, hard; minor pyrite.
3958-67	SHALE, as above, w/ minor amount of SANDSTONE, dark gray-black, fine grains of subangular glassy quartz in slightly calcareous argillaceous matrix, grain-supported.
3967-72	SHALE, black, as above; SANDSTONE, as above, plus some that is matrix supported - Probably transitional lithology; SANDSTONE, clear to lt. gray, fine grained, subangular and glassy to subrounded and frosted, very slightly calcareous. Most of sample disaggregated: some fragments are tight mosaic of interlocking quartz grains, while other fragments - usually w/ the rounded, frosted qtz. grains - have argillaceous matrix and some porosity.
3972-73	SANDSTONE, clear to lt. gy., fine to fine med. grained, interlocking subangular mosaic of qtz. xls, w/ a little intergranular calcite and very low porosity. Occasional rounded frosted quartz grain. SHALE cavings and drilling tool debris abundant.
3973-77	SANDSTONE, med. gray, fine grained to conglomeratic, subangular qtz. grains w/ intergranular calcite; grain supported, fairly well-sorted, v. low porosity. SHALE cavings common. Maximum grain size 2.5 mm.
3977-81	SANDSTONE, as above, w/ a few black, fine grained, non-quartz grains disseminated thru the quartzite. Shale cavings.
3981-86	As above
3986-90	SANDSTONE, as above, although virtually all grains are very fine to fine; some rock fragments have higher percentage of matrix and a little porosity. Shale cavings.
3990-95	SANDSTONE, as above; some rock fragments have very fine sub-angular to subrounded qtz. grains "floating" in white calcite matrix, though most rock chips remain grain supported and tight.

- 3995-98 SANDSTONE, mostly fine to v. fine grained w/ beds of very coarse grained to fine grained, poorly-sorted quartzite; most rock fragments are tight with intergranular calcite, although a few fragments have a little porosity. (Composite of two sample intervals.)
- 3998-4003 SANDSTONE, white, fine grained, interlocking subangular to angular clear-glassy to cloudy quartz grain mosaic w/ very little intergranular porosity or intergranular calcite. Occasional fine, rounded, frosted quartz grains and dk. gy. rock fragments.
- 4003-07 SANDSTONE, as above, w/ occasional coarse-size quartz grain. Tight. (Composite of two intervals.)
- 4007-11 SANDSTONE, as above, w/ lt. brown coloration and slight increase in calcareous matrix. Drill tool debris present. (Composite of two intervals.)
- 4011-14 SANDSTONE, as above. Tight.
- 4014-16 No Sample
- 4016-21 SANDSTONE, white to lt. brown, fine to very fine grained w/ a few med. grains; subangular, glassy interlocking quartz grains w/ minor calcareous matrix and a very few fine, dk. gray rounded rock fragments. Porosity low to non-existent. Cavings of black and dk. olive gray SHALE. (Composite of two sample intervals.)
- 4021-27 SANDSTONE, as above, mostly tight. (Composite of two intervals.)
- 4027-29 SANDSTONE, as above.
- 4029-30 SANDSTONE, probably as above though slightly finer grained. Sample finely ground and pulverized.
- 4030-32 SANDSTONE, white to lt. brown, very fine grained, angular to subangular qtz. A few dk. gy - black v. fine rock fragments. Sample bit debris. (Composite of two intervals.)
- 4032-34 SANDSTONE, as above, disaggregated.
- 4034-37 SANDSTONE, white to lt. gray, very fine to fine grained, clear glassy to white subangular-angular interlocking quartz grains. Minor intergranular calcite and dk. gy. - black fine grained rock fragments in the quartz grain mosaic. Tight. Possible dead oil (?) or manganese mineralization between some grains.
- 4037-41 SANDSTONE, as above, Tight.
- 4041-42 SANDSTONE, lt. brown to white, as above, tight.
- 4042-44 SANDSTONE, as above, tight.

4044-46 SANDSTONE as above, tight. Sample mostly disaggregated.

4046-50 SANDSTONE, lt. gray to white, otherwise as above. Some rock fragments show fair to low porosity, most are tight.

4050-53 SANDSTONE, as above, mostly tight.

4053-58 SANDSTONE, as above.

0-3954' Samples not examined

3954-3970' Millboro black shale

3970-4058' T.D.

Oriskany SANDSTONE - Mostly appears to be a tight mosaic of interlocking, subangular-angular glassy quartz grains with very minor intergranular calcite. Very clean and mostly well-sorted, though a few horizons w/ coarse grains and poor sorting were noted. A few zones show a little intergranular porosity. Fractured surfaces on rock fragments common.