I.D. NUMBERS

OPERATOR: R. E. Davis
FARM: Allen Fitzwater
WELL NUMBER: #1
LOCATION: Rockingham Co., Bergton 7.5' quad.
LAT.: 1.9 miles south 38° 50'
LONG.: 1.2 miles west 78° 55'
ELEVATION: 1731.5 grd.
TOTAL DEPTH: 3551'
DRILLING COMMENCED: 20 May 1957
WELL COMPLETED: 15 July 1957
RESULT: Dry & Abandoned

V.D.M.R. 443 (B-1)
OIL & GAS INSPECTOR RO-15
API 45-165-19701-00-03

LOGGED BY Bartlett & Associates (THB) 5/81

GEOLOGIC LOG

INTERVAL	DESCRIPTION
3340-55	SHALE, dk. gray to black, slightly calcareous, slightly silty, minor pyrite, thin bedded, fairly soft, carbonaceous.
3355-64	As above
3364-70	SHALE, as above, w/ LIMESTONE, v. dk. gy., fine crystaline, very argillaceous (25%).
3370-77	SHALE, as above, w/ less LIMESTONE.
3377-85	SHALE, dk. gray to black, calcareous, fissile, fairly hard, thin bedded, w/ fine white calcite crystal "eyes".
3385-3401	SHALE, black, thin bedded, fissile, fairly hard, carbonaceous.
3401-09	Black SHALE, as above, w/ minor white calcite crystals.
3409-3412	Black SHALE, as above (60%); SANDSTONE, white to clear fine grained, angular quartz grains and lt. brownish gray, fine grained, subrounded to well-rounded, frosted quartz grains: sample finely ground and quartz grains disaggregated; (Composite of 2 sample intervals).
3412-21	No samples.
3421-26	SANDSTONE, white to lt. gray, fine grained, angular to subangular, well-sorted, glassy, interlocking quartz grain mosiac w/ intergranular calcite. Tight. Abundant bits of drill tool debris. (Composite of 2 sample intervals).
3426-30	SANDSTONE, white to lt. brown, w/ subordinate amts. of fine subrounded, frosted qtz. grains, otherwise as above. (Composite of 2 sample intervals).
3430-37	SANDSTONE, white to lt. brown to m. lt. gray, v. fine to fine grained, angular & glassy quartz w/ lesser amt. of subrounded & frosted quartz grains, calcareous matrix grain-supported, tight. (Composite of 2 intervals) Minor bit debris & iron stain.
3437-42	SANDSTONE, as above, v. fine grained w/ a few very coarse quartz

	grains. Good porosity in some rock fragments, most are tight, minor white crystaline calcite.
3442-44	SANDSTONE, lt. brown, fine to very fine, angular to subangular glassy, grain-supported w/ intergranular calcite, tight.
3444-47	SANDSTONE, v. fine to medium, lt. brown to med. gray, mostly angular-subangular glassy qtz.; Tight w/ minor intergranular calcite in the qtz. mosiac. Possible dead oil? or manganese on some grain interfaces.
3447-50	SANDSTONE, as above, w/ slight increase in matrix %; some rock fragments show fair porosity and are fairly friable. (Composite of 2 intervals).
3450-52	SANDSTONE, lt. to med. gray, v. fine to fine grained, very calcareous, grain-supported (although some fragments are almost matrix-supported), fairly soft, low porosity, slightly argillaceous.
3452-56	SANDSTONE, as above. (Composite of 3 sample intervals)
3456-61	SANDSTONE, very finely crushed, otherwise as above. (Composite of 2 intervals.)
3461-65	SANDSTONE, lt. brown to white, v. fine to medium grained, tight, as above. Most of sample finely crushed. (Composite of 2 intervals). Bit Debris.
3465-69	SANDSTONE, lt. brown to white, fine grained, subangular-angular glassy quartz, clean, well-sorted, qtz. xls mosiac w/ intergranular calcite, Tight.
3469-72	SANDSTONE, as above, finely crushed. (Composite of 2 intervals).
3472-74	SANDSTONE, white to lt. brown, fine grained, subangular, glassy, calcareous, sample finely ground but rare rock fragments tight. (Composite of 2 sample intervals). Bit debris common.
3474-77	SANDSTONE, as above.
3477-81	SANDSTONE, as above, w/ rare dk. gray, rounded & flattened rock clasts in the quartzite fragments. (Composite of 2 sample intervals).
3481-85	SANDSTONE, as above, clean & tight. (Composite of 2 sample intervals).
3485-89	SANDSTONE, as above. (Composite of 3 intervals).
3489-93	SANDSTONE, as above. (Composite of 2 intervals).
3493-97	SANDSTONE, lt. brown to lt. gray, (majority) fine grained interlocking mosiac of angular-subangular quartz w/ minor intergranular calcite. Very low to zero porosity. Rare rock fragment inclusions, otherwise clean. (Composite of 2 intervals).
3497-3501	SANDSTONE, as above.
3501-05	SANDSTONE, as above.

3505-09	SANDSTONE, as above (Composite of 2 intervals).
3509-15	SANDSTONE, as above (Composite of 3 intervals).
3515-3519	SANDSTONE, as above.
3519-3522	SANDSTONE, lt. brown, v. fine grained, glassy to cloudy, subangular to angular; sample totally disaggregated. Minor calcite on some qtz. grains.
3522-25	SANDSTONE, as above, w/ a few small rock fragments of interlocking qtz. grains, tight, w/ minor intergranular calcite.
3525-27	SANDSTONE, as above, w/ rare rounded, fine-very fine grained, black rock fragments.
3527-30	SANDSTONE, lt. brown to lt. gray, fine to med. grained, subangular-angular interlocking mosiac of qtz. grains, w/ minor intergranular calcite and rare v. fine grained black rock fragments within the quartzite.
3530-34	SANDSTONE, as above.
3534-36	SANDSTONE, as above.
3536-39	SANDSTONE, as above.
3539-43	SANDSTONE, lt. to med. gray, fine grained, very hard, dense, tight w/ minor intergranular calcite in the interlocking qtz. crystal mosiac. Some vuggy porosity but most of sample tight. (Excellent sample consisting of pea-size and greater rock fragments).
3543-45	SANDSTONE, lt. brown to white, v. fine to fine grains of sub-angular-angular qtz; sample mostly disaggregated.
3545-48	SANDSTONE, as above, very finely ground.
3548-3551	SANDSTONE, as above.

3340-3410'	Millboro black SHALE.
3410-3551' T.D.	Oriskany SANDSTONE - tight orthoquartzite w/ mostly glassy subangular-angular mosiac of quartz grains w/ minor intergranular calcite & rare rock fragments; many of the samples have been finely ground & disaggregated. Some of the rock fragments of quartzite have been fractured. Virtually no porosity present.