

I.D. NUMBERS

OPERATOR: United Fuel Gas Co.
FARM: Carl Shoemaker
WELL NUMBER: 8035
LOCATION: Rockingham Co., Bergton 7.5' quad.
LAT.: 12,950' N. of 38° 45'
LONG.: 11,500' W. of 78° 55'
ELEVATION: 1544.76'
TOTAL DEPTH: 3329'
DRILLING COMMENCED: 17 March 1955
WELL COMPLETED: 19 May 1955
RESULT: Dry Hole

V.D.M.R. 154 (B-7)
OIL & GAS
INSPECTOR RO-5
API 45-165-19694-00-03

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

GEOLOGIC LOG

<u>INTERVAL</u>	<u>DESCRIPTION</u>
3095-3100	SANDSTONE, lt. gray, fine to med. grained, clear glassy to frosted, subangular to subrounded qtz. grains w/ rare dark gray to black rock fragments of similar size mixed with the qtz. grains. SANDSTONE is well-sorted, grain-supported with intergranular calcite. Tight with little to zero porosity. SILTSTONE and silty SHALE, black to dark gray, common-probably cavings.
3100-05	SANDSTONE, as above, with slight overall increase of intergranular carbonate. Minor SHALE cavings.
3105-10	SANDSTONE, as above, overall grain size is finer, though there is minor conglomerate present, indicated by broken qtz. pebbles. Abundant black SHALE cavings.
3110-15	Conglomeratic SANDSTONE. Majority of SANDSTONE similar to above. Conglomerate fine pebbles of quartz or black SHALE, subrounded, in matrix of fine to fine medium SANDSTONE.
3115-20	SANDSTONE, as above. Abundant SHALE cavings continue. Fractures evident.
3120-25	SANDSTONE, lt. gray to white, fine to coarse grained, mostly subangular though some of the larger quartz grains are well-rounded and frosted. Most of sample is SHALE cavings.
3125-30	SANDSTONE, as above. Continues tight w/ fractures evident. Sample remains majority SHALE cavings. Minor conglomerate present.
3130-35	SANDSTONE, as above, w/ SHALE cavings.
3135-40	As above, w/ minor conglomerate.
3140-45	As above, w/ minor conglomerate. SHALE cavings continue.
3145-50	As above.

- 3150-55 SANDSTONE, lt. to med. gray, v. fine to med. grained w/ minor amts. of conglomeratic small pebbles. Quartz grains are glassy, subangular w/ minor rounded, frosted grains and occasional black rock fragments. SANDSTONE, well-sorted w/ variable amounts of intergranular calcite, though all fragments are grain-supported. Fractures evident. Minor white crystalline calcite. Black SHALE cavings continue abundant.
- 3155-60 As above.
- 3160-65 As above.
- 3165-70 As above? 90% of sample is black SHALE, w/ the rest being SANDSTONE and conglomerate as above.
- 3170-75 SANDSTONE, white to lt. gray, mostly fine grained with minor conglomerate, subangular, glassy, slightly calcareous. Abundant black SHALE cavings. Minor white crystalline or grainy calcite, loose and as fracture fills/coatings.
- 3175-80 As above. Increased amts. of intergranular carbonate.
- 3180-85 SANDSTONE, as above, glassy and tight. Abundant SHALE cavings.
- 3185-90 As above. Common white granular calcite. Trace of qtz. pebble conglomerate.
- 3190-95 As above.
- 3195-3200 As above. SHALE cavings continue to be abundant.
- 3200-05 As above.
- 3205-10 SANDSTONE, white to lt. gray, fine to med. grained, mostly glassy w/ intergranular carbonate. Tight, mostly interlocking qtz. grain mosaic, w/ fractures evident. Most of sample (80%) is black SHALE.
- 3210-15 As above, mostly SHALE in the sample.
- 3215-20 SANDSTONE, as above, slightly to zero calcareous. SHALE cavings common.
- 3220-25 As above, predominately black SHALE in the samples.
- 3225-30 As above.
- 3230-35 As above, very minor conglomerate. Black SHALE cavings continue abundant.
- 3235-40 SANDSTONE, as above, remains glassy and tight w/ fractures evident. Black SHALE abundant.
- 3240-45 SANDSTONE, white to v. lt. gray, fine to v. fine grained w/ minor medium grains, subangular, glassy to milky interlocking quartz grains w/ slight intergranular carbonate. Fractures evident. Black SHALE cavings abundant. Minor white granular or crystalline calcite.

- 3245-50 As above.
- 3250-55 As above.
- 3255-60 As above, w/ some SANDSTONE med. gray and slightly more calcareous.
- 3260-65 SANDSTONE, white, glassy, fine to med. grained, tight very slightly calcareous. About 10% black SHALE cavings.
- 3265-70 As above, w/ minor amts. white granular calcite.
- 3270-75 As above, w/ trace of qtz. pebble conglomerate. SHALE cavings common. SANDSTONE continues to be a tight interlocking qtz. grain mosaic w/ rare rock fragments incorporated in with the qtz. grains.
- 3275-80 As above, w/ increase in amt. of black SHALE.
- 3280-85 As above.
- 3285-90 As above.
- 3290-95 No samples.
- 3295-3300 SANDSTONE, white to lt. gray, fine to med. grained, glassy to milky, subangular, tight interlocking quartz grain mosaic with minor intergranular calcite. About 10% black SHALE cavings.
- 3300-05 SANDSTONE, as above, w/ SHALE cavings.
- 3305-10 SANDSTONE, as above, w/ about 50% of sample black SHALE.
- 3310-15 As above.
- 3315-20 As above.
- 3320-25 As above, only about 25% black SHALE.
- 3325-30 SANDSTONE, as above w/ 10% SHALE cavings and minor white granular calcite.

0-3095' Samples not examined.
Top of Oriskany picked by operator: 3080'

3095'-3330' T.D. Oriskany SANDSTONE, tight orthoquartzite of interlocking subangular quartz grains with intergranular calcite. Grains glassy to milky, fine to med. grained with thin horizons of quartz pebble conglomerate. Samples contaminated throughout with black silty SHALE/SILTSTONE/SHALE, often slickensided, but probably cavings from up hole.