James Ray #2
VDMR # 3415
Miller #62
API #45-105-19716-00-03
A-7-GE

OPERATOR: Rouge Oil Company
FARM: James Ray
WELL NUMBER: 2
LOCATION: Lee County, Rose Hill Quadrange, south end Martin Creek Fenster
LAT:
LONG:
ELEVATION: 1330
TOTAL DEPTH: 1470 ft.
DRILLING COMMENCED:
DRILLING COMPLETED: 1948
RESULT: Producer, now plugged and abandoned

PARTIAL GEOLOGIC LOG

INTERVAL	DESCRIPTION
0-397	NOT DESCRIBED.
397-411	Shale, dk. gy; micaceous, thin bedded, slightly silty (50%); sandstone, white-reddish brown-reddish gray -medium gray, v. fn to coarse grained, well-sorted to poorly sorted, generally sub-to well rounded and well cemented (50%)
411-421	Shale, dk. gray as above (95%); Limestone calcarenite, very muddy, white w/ brownish-red mud matrix (5%)
421-431	Sandstone, mostly white to pale green, lesser amts. m. gray, fine to coarse grained, generally clean & grain supported; subangular to subrounded quartz grains w/ low porosity (90%); Shale and limestone calcarenite as above
431-447	Sandstone, as above, med. to coarse grained, some cuttings have good porosity; minor silty shale, dk. gray
447-457	Sandstone, white to pale green, med. to coarse grained, well-sorted subangular qtz, grain-supported, good porosity (60%); Shale, dk. gray, thin bedded, micaceous (40%)
457-468	Sandstone, as above, some v. coarse, qtz. grains, angular to subangular, generally disassociated (may indicate friable nature?) (80%) Shale, as above (20%)
468-473	Shale, dk. gray, micaceous, thin bedded, slightly silty; minor Sandstone, as above (may be cavings)

INTERVAL	DESCRIPTION
475-482	Shale, as above, w/ minor sandstone w/ minor reddish-gray-brown calcarenite similar to 411-421 interval except more hematitic (probably thin iron horizon)
482-491	Same as above
491-500	Shale, dk. gray, micaceous, thin bedded w/ minor hematite
500-509	Shale, as above, (75%); Sandstone, white-brown-gray varieties, v. fn. to med. grained, mostly clean, tho some have muddy matrix; some sandstone is pyritic
509-520	Sandstone, white-creme-reddish brown-gray, fn. to med. (w/ minor coarse) grained, well-sorted subangular to subrounded, grain supported w/ minor whitish intragranular clay (60%); Shale, as above (40%)
520-533	Sandstone and shale, as above
533-544	Shale, (70%) and sandstone (30%) as above
544-554	Shale, dk. gray, micaceous, silty; and siltstone, dk. gray, micaceous.
554-748	Interval not examined
748-758	Limestone, m. gray-gray brown, v. fn. xln. argillaceous, grainy texture, and shale, dk. gray, very limy w/ minor white, silty limestone; minor mudstone, dk. reddish-brown to red, limy
758-770	Limestone and shale as above: rare brach. fossils
770-787	Mudstone, dark red-reddish brown, micaceous, very limy (70%); shale and argillaceous limestone, as above, (30%)
787-797	Mudstone, dark red, as above (75%); w/ limestone & shale as above; Much of the limestone has a greenish tint.

INTERVAL	DESCRIPTION
797-807	Mudstone, as above (70%); w/ very argillaceous limestone, dk. gray to dk. greenish gray v. fine grained, granular texture
807-817	Mudstone, as above (40%) limestone, dk. gray, fine crystalline, fairly dense (40%); shale, dk. greenish gray, thin bedded, limy, soft, micaceous
817-823	Limestone as above (70%), more argillaceous than above; shale, as above (30%)
823-830	Limestone & shale, as above w/ occasional brach. fragment
830-1073	Not examined
1073-1084	Shale, dk. gray, thin bedded, soft and limestone, m. dk. gray,-m. gy. brown fn. xln. argillaceous/ silty (very small quantity sample)
1084-1090	Shale, as above (80%); Limestone as above, plus minor amts. white-creme-lt. brown, coarse xln. or fine granular calcite
1090-1100	As above
1100-1110	As above w/ trace Bentonite (?) pale green w/ minute mica flakes disseminated in mostly calcareous matrix; minor fossil fragments.
1110-1120	As above w/ rare rounded, dark gray, 1/2 mm. clasts in limy mud matrix
1120-1130	Shale, dk. gray, fairly soft (90%); Limestone very silty/argillaceous, as above w/ fairly abundant brachiopod & other fossil fragments
1130-1138	As above, shale generally more limy
1138-1148	As above
1148-1158	Shale, as above (80%); Limestone, m. gy. brown, coarse xln. w/ minor amts. of limestone as above, brachiopod (?) fossils & molds abundant; occasional dk. gy. clasts.
1158-1168	As above
1168-1178	As above

INTERVAL	DESCRIPTION
1178-1644	Not examined
1644-1654	Limestone, m. dk. gy– m. gray–m. dk. gy. brown, fine to med. coarse xln, (60%); shale, dk. gray, slightly limy (30%); Limestone, white/creme, chalky, soft (10%)
1654-1664	Limestone, as above, m. dk. gy. brown (70%) shale (20%); Limestone, white, xln. to chalky (10%); minor fossil fragments.
1664-1678	As above, w/ minor calcarenite, lime mud-supported
1678-1690	Limestone, m. gray - m. lt gy. brown-creme/white varieties (50%); Shale, dk. gray, slightly limy (50%)
1690-1700	As above, w/ minor amts of smoky gray chert
1700-1707	Limestone, m. dk. gray, fn. xln, very argillaceous (50%); shale, as above (30%); Limestone, as above (20%); occasional brach, fragment.
1707-1718	Limestone/limy shale, dark gray, fine crystalline, very argillaceous (80%); Limestone, white-creme-lt. brown, coarse crystalline to fine grainy/ chalky (20%)
1718-1728	Limestone, very argillaceous to slightly limy shale (60%); Limestone, lt. colored varieties as above (40%); occasional fossils, rare fine pyrite xls.
1728-1738	Limestone, very argillaceous/limy shale (80%); Limestone, lt. colored varieties as above (20%) Minor Bentonite, pale green, finely granular, siliceous w/ fine flakes of bronze mica; Minor lime mud-supported Calcarenite: coarse, well-rounded, dk. brn-gray, micro-xln clasts in lt. brown, fn. xln. matrix
1738-1748	Limestone, dk. gray, argillaceous/limy shale (50%) Limestone, m. lt. brown-med. brown-dk. gray brown creme/white, coarse xln to fine xln, some grainy (50%); Minor Bentonite pale green to m. dk. greenish gray, w/ dissem. mica flakes (CAVINGS?)
1748-1752	Limestone, creme to med. brown varieties (60%) Limestone, very argillaceous/shale, dk. gray (40%)

INTERVAL	DESCRIPTION
1752-1761	Limestone, lt. colored varieties (75%); Dk. gray, argillaceous limestone & shale (25%)
1761-1773	As above
1773-1779	As above
1779-1791	limestone, med. brown-m. dk. gy. brown, fn. xln. to med. xln (60%); Shale, dk. gy. (30%) Bentonite pale green, dissem. bronze flakes (10%) w/ minor silicifid limestone or shale
1791-1802	As above

Collar in Upper Portion of Clinton Shale	
(Estimated) Top of Poor Valley Ridge Mbr.	285'
Top of Hagan Shale Mbr.	468'
(Approximate) Top of Sequatchie Fm.	555'
Top of Reedsville Shale	812'
(Estimated) Top of Trenton Limestone	1220'
Top of Eggleston Limestone	1781'

Reported Oil Pay 1460' (Miller & Fuller, 1954)
Reedsville Shale Approx. 50 ft. thicker than normal.