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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

A-18-LE

February 24, 1948

Mr. William M. McGill,
State Geologist
Virginia Geological Survey
Box 1428, University Station
Charlottesville, Virginia

Dear Bill:

I am enclosing for your files logs of the Byron C. Fugate No. 1 well drilled by the H. and R. Oil Co., in 1947. This is Fain Gillock's company. The well was a small producer. The tops mentioned in the driller's log of the well are essentially correct except that the "Clinton" recorded at the top of the hole is really Conasauga shale. The tops in Reger's logs of the samples are seriously incorrect. I received these logs from George W. Hindman, field representative of the H. and R. Oil Company. Apparently the H. and R. Oil Co. has changed its name, after the departure of Mr. R. (Rose) last fall, to the Virginia Oil and Refining Company. At least that's the letter head beneath which Mr. Hindman now writes his letters.

I was interested to see your draft of a proposed amendment to the Code of Virginia, to assure information being obtained by the State Geological Survey on oil, gas, and water well drilling in Virginia. It seems adequate to meet that purpose. Are other sections to be added regulating the completion and abandonment of wells? I hope so, in the interests of protecting the natural resources of the State.

We are expecting to see you in Washington in the next few weeks. To my great regret I shall have to withdraw my invitation for you and Matty to stay at our house. Ansel's mother is arriving from Minnesota next Tuesday, and her sister will be moving in with us for a few weeks shortly thereafter. With only a two bedroom house, you can appreciate the situation. We will be counting on having you and we hope also Matty for dinner and the evening, however. Can I make a hotel reservation for you here?

I plan to leave for two or three weeks in Lee County on or about March 15th., the weather permitting.

With best regards,

Ralph L. Miller.

Enclosure 276.

*Topo here listed believed in correct
by R. L. Miller*

Byrum C. Fugate No. 1 Well (G-13)

Rose Hill Dist., Lee Co., Va.; on east side of Fourmile Creek about 5900' S 35° W of Dean School and 2.5 miles S 35° E of Ewing; begun Aug. 9, 1947; completed Oct. 10, 1947; by H. and K. Drilling Co.; elevation, about 1420' (TVA Contour); starts in Conasauga (Cambrian) overthrust shale.

Sample examination by David B. Reger.
(All samples had sufficient lime to be effervescent in dilute HCl; fragments of shale, when separately tested, often proved to be non-effervescent)

<u>Sample</u>	<u>Description</u>	<u>Interpretation</u>
584-588	Lime, dark-gray, hard, marine fossils	Ordovician-Trenton
588-592	Lime, and shale, dark-gray, hard, platy	" "
592-598	Lime and shale, dark-gray, hard, platy	" "
598-604	Shale, dark-gray, soft, slickensided, with some dark-gray, fossiliferous lime	" "
604-610	Lime and shale, dark-gray, slickensided	" "
610-615 (2 samples)	Shale, dark-gray and buff, slickensided; and dark- gray, fossiliferous lime	" "
615-620	Shale, dark-gray, slickensided; and dark-gray, fossiliferous lime	" "
620-625	Shale, dark-gray, slickensided; and dark-gray lime	" "
625-632	Shale, dark-gray, slickensided; and dark-gray lime	" "
632-641	Shale, dark-gray, slickensided; and dark-gray, fossiliferous lime	" "
641-647	Lime, dark-gray; and dark-gray shale	" "
647-652	Lime, dark-gray; (large chunks)	" "
652-662	Lime, dark-gray; and dark-gray, abandoned shale	" "
662-667 (3 samples)	Lime, dark-gray; and dark-gray, shale	" "
667-672	Lime, dark-gray; and dark-gray slickensided shale	" "
672-679	Lime, dark-gray; and dark-gray, slickensided shale	" "
679-712	No samples	
712-719	Lime, dark-gray; and dark-gray, slickensided shale	" "

<u>Sample</u>	<u>Description</u>	<u>Interpretation</u>
719-725	Lime, mostly dark-gray, but partly light-gray with calcite; and dark-gray slickensided shale	Ordovician-Trenton
725-729	" " " " " "	" "
729-735	" " " " " "	" "
735-742	" " " " " "	" "
742-749	Lime, partly dark-gray and partly light-gray; dark-gray slickensided shale; and buff shale	" "
749-756	Lime, dark-gray; and dark-gray, slickensided shale	" "
756-765	Lime, partly dark-gray and partly light-gray; and dark-gray, slickensided shale	" "
765-770	" " " " " "	" "
770-775	Shale, dark-gray to black, slickensided; and lime, partly dark-gray and partly light-gray	" "
775-779	Lime, partly dark-gray and partly light-gray; and dark-gray, slickensided shale	" "
779-787	Lime, mostly dark-gray, but partly light-gray and slickensided dark-gray shale	" "
Hole corrected back from 787 to 759'		
759-767	Lime, mostly light-gray, but partly dark-gray; and dark-gray shale.	" "
767-775	Lime, mostly light-gray but partly dark-gray; and dark-gray shale	" "
775-783	Lime, partly light-gray and partly dark-gray; and dark-gray shale	" "
783-791	Lime, mostly light-gray, but partly dark-gray; pulverized and sandy, fossiliferous (oil and gas show, 791')	Ordovician-Eggleston
791-795	Lime, mostly light-gray; pulverized and sandy	" "
795-802	Lime, light-gray, pulverized; and dark-gray, slickensided shale	" "
802-808	Lime, light-gray, calcitic, shaly	" "

<u>Sample</u>	<u>Description</u>	<u>Interpretation</u>
808-815	Lime, light-gray, calcitic, shaly	Ordovician-Eggleston
815-825	Lime, light-gray, calcitic; and shale, partly dark-gray, partly buff	" "
825-834	Lime, mostly light-gray, pulverized and shaly	" "
Hole corrected back from 834 to 822'.		
822-834	Lime, light-gray, calcitic, platy; and dark-gray, slickensided shale	" "
834-839	Lime, light-gray, pulverized and shaly	" "
839-845	Lime, light-gray to buff, pulverized and shaly	" "
845-850	" " " " " "	" "
850-856	Lime, partly light-gray and partly dark-gray; and dark-gray slickensided shale	" "
856-862	" " " " " "	" "
862-870	" " " " " "	" "
870-875	Lime, light-gray to buff, pulverized & shaly	" "
875-879	" " " " " "	" "
879-886	" " " " " "	" "
886-894	" " " " " "	" "
894-901	" " " " " "	" "
901-909	Lime, light-gray to buff, pulverized & shaly	" "
909-913	" " " " " "	" "
913-920	" " " " " "	" "
920-926	Lime, buff, pulverized and shaly	" "
926-930	" " " " " "	" "
930-934	Lime, buff, pulverized and shaly	" "
934-939	" " " " " "	" "
939-945	" " " " " " (No increase in oil)	" "
945-950	No sample	

<u>Sample</u>	<u>Description</u>	<u>Interpretation</u>
950-956	Lime, partly buff and partly dark-gray, shaly	Ordovician-Eggleston
956-963	Lime, light-gray to dark, tinged with red, shaly	Ordovician-Moccasin
963-971	Lime, partly light-gray, but mostly dark-gray, tinged with red, fossiliferous, shaly	" "
971-977	Lime, dark-gray; very cherty and shaly	" "
977-984	Lime, buff, pulverized and shaly; with some reddish-brown shale	" "
984-989	Lime, buff, tinged with red, pulverized and shaly	" "
989-992	" " " "	" "
992-1000	Lime, partly dark-gray and partly light-gray; tinged with red, shaly and cherty	" "
1000-1006	Lime, mostly dark-gray, but partly light-gray, tinged with red, fossiliferous shaly	" "
1006-1011	Lime, partly dark-gray and partly light-gray, tinged with red, shaly	" "
1011-1015	Lime, partly dark-gray and partly light-gray, pulverized and shaly	" "
1015-1025	Lime, partly dark-gray and partly light-gray, tinged with red, shaly and cherty	" "
1025-1032	Lime, partly dark-gray and partly light-gray, shaly, fossiliferous	" "
1032-1038	Lime, partly dark-gray and partly light-gray, tinged with red shaly	" "
1038-1046	" " " " "	" "
1046-1052	" " " " "	" "
1052-1062	" " " " "	" "
1062-1072	Lime, mostly light-gray to buff, tinged with red, shaly	" "
1072-1082	Lime, partly light-gray and partly dark-gray, tinged with red, shaly	" "
1082-1091	Lime, partly light-gray and partly dark-gray, shaly, fossiliferous	" "

<u>Sample</u>	<u>Description</u>	<u>Interpretation</u>
1091-1104	Lime, partly light-gray, and partly dark-gray, tinged with red, shaly	Ordovician-Moccasin
1104-1117	" " " " "	" "
1117-1123	" " " " "	" "
1123-1128	" " " " "	" "
1128-1135	" " " " "	" "
1135-1152	" " " " "	" "
1152-1160	" " " " "	" "
1160-1166	" " " " "	" "
1166-1173	Lime, partly light-gray and partly dark-gray, tinged with red, shaly, fossiliferous	" "
1173-1180	Lime, partly light-gray, partly dark-gray, tinged with red, shaly	" "
1180-1186	" " " " "	" "
1186-1192	Lime, mostly dark-gray, but partly light-gray, tinged with red, cherty	" "
1192-1200	Lime, partly dark-gray and partly light-gray, shaly	" "
1200-1207	" " " " "	" "
1207-1215	" " " " "	" "
1215-1225	" " " " "	" "
1225-1235	Lime, partly dark-gray, partly light-gray, tinged with red, shaly	" "
1235-1241	" " " " "	" "
1241-1248	" " " " "	" "
1248-1256	Lime, mostly light-gray, but partly dark-gray, sandy or cherty	" "
1256-1264	" " " " "	" "
1264-1271	Lime, buff, sandy, finely pulverized	" "

<u>Sample</u>	<u>Description</u>	<u>Interpretation</u>
1271-1281	Lime, mostly dark-gray, but partly light-gray, with calcite	Ordovician-Moccasin
1281-1294	Shale, light-gray to buff, calcareous, bentonitic?	" "
1294-1305	Lime, dark-gray, platy and shaly	Ordovician-Lowville
1305-1314	Lime, mostly dark-gray, platy and shaly	" "
1313-1327	Lime, mostly dark-gray, tinged with red, pulverized, shaly	" "
1328-1333	Lime, dark-gray to buff, pulverized, shaly	" "
1333-1339	Lime, dark-gray, platy, shaly	" "
1339-1344	Lime, dark-gray to buff, platy, shaly	" "
1344-1349	Lime, dove-colored, shaly	" "
1349-1354	Lime, dove-colored, to light-gray	" "
1354-1363	Lime, dove-colored to light-gray	" "
1363-1368	No sample	
1368-1376	Lime, dark-gray, platy	" "
1376-1386	" " "	" "
1386-1397	Lime, dark-gray, hard	" "
1397-1407	Lime, dark-gray, hard	" "
1407-1412	Lime, dove-colored, soft, shaly	" "
1412-1419	" " " "	" "
1418-1423	Sand, buff, slightly calcareous, very fine-grained	" "
1423-1429	Lime, dove-colored, soft, sandy	" "
1429-1439	" " " "	" "
1439-1446	Lime, dove-colored, platy, soft	" "
1446-1451	" " " "	" "
1451-1456	Sand, dove-colored, highly calcareous, very fine-grained (Oil, 1455' - steel line measure, 1448')	" "

<u>Sample</u>	<u>Description</u>	<u>Interpretation</u>	
1456-1461	Lime, mostly dove-colored, but partly light-gray, platy	Ordovician-Lowville	
1461-1470	No sample		
1470-1473	Sand, buff, highly calcareous, very fine-grained	"	"
1473-1483	No sample		
1483-1490	Lime, dove-colored, platy	"	"
1490-1494	No sample		