12-18S-7W

Raymond H. Goodin
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12-18S-7W

October 21st, 1953

Mr. E. H. Riggs
701 Union National Bank Bldg.
Wichita, Kansas

GEOLOGICAL REPORT

Re: E. H. Riggs et al Little No. 1
SE SE SE Sec. 12-18s-7w
Rice County, Kansas
Elevation 1698 Df, 1701 Kb

Dear Sir:

The following information is my interpretation of samples, time log and electric log on the above captioned well.

Samples and Time Log		Electric Log	
Heebner	2591 -890	Heebner	2590 -889
Toronto	2616 -915	Toronto	2610 -909
Douglas	2630 -929	Douglas	2630 -929
Brown Lime	2708 -1007	Brown Lime	2708 -1007
Lansing Kansas City	2745 -1044	Lansing Kansas City	2745 -1044
Base Kansas City	3122 -1421	Base Kansas City	3121 -1420
Base Pennsylvanian	3193 -1492	Base Pennsylvanian	3193 -1492
Conglomerate Sand	3193 -1492	Conglomerate Sand	3193 -1492
Kinderhook Shale	3211 -1510	Kinderhook Shale	3211 -1510
Misener Sands	3318 -1617	Misener Sands	3317 -1616
Viola	3384 -1683	Viola	3384 -1683
Simpson	3480 -1779	Simpson	3480 -1779
Simpson Dolomite	3490 -1789	Simpson Dolomite	3485 -1784
Arbuckle	3542 -1841	Arbuckle	3539 -1838
RTD	3587 -1886	Schlumberger TD	3587 -1886

Samples were checked from under surface pipe to rotary total depth. Several good fine grained micaceous sand bodies were noted in the upper Pennsylvanian, but no shows of oil or gas were seen. The Topeka and Lansing Kansas City formations carried no shows of oil.

Conglomerate Sand 3193 - 3211

Sand No. 1 - 3193 - 3202 This sand consisted of fine to coarse grained angular to sub-rounded sand, with occasional pieces of lime fragments. This sand body was a clean sand and poorly cemented with calcite. Clusters of sand were rare and very friable. The staining was even with a good show of free oil, no odor was detected. DST-#1 3195 - 3199 Open one hour, strong blow, 3140' gas, 480' clean gassy oil and 5 gallon salt water, 20 Minute BHP 800#. I.F.P. Zero #. F.F.P. 100#.

Below the above sand the electric log indicates a four foot shale section before going into the lower sand body.

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Sand No. 2 - 3205 - 3211 This sand consisted of medium to coarse grained sand, some clean sand and some of which was shaly. The cementing was tighter and not very calcarious. Clusters of sand were numerous, but still fairly friable. The staining was spotted to even. Lime fragments were more numerous in this sand body, and one piece of yellow chert was seen.

Kinderhook 3211 - 3318 Consisted of shale with some slightly sandy shale near the top of the formation.

Misener Sand 3318 - 3384 Consisted of fine to coarse grained angular to rounded frosted sand, well cemented, but friable, with interbedded shale lenses. The upper sand had fair porosity, but no show of oil was noted.

Viola 3384 - 3480 This formation consisted of dolomites and limes, no porosity and no show of oil was noted.

Simpson 3480 - 3539 This formation consisted of a dense brown sucrose crystalline dolomite near the top, with interbedded sands and shales in the lower part.

Arbuckle 3539 - 3587 RTD The Arbuckle consisted of fine to coarse crystalline dolomite with some thin zones of fair to good porosity, but no shows of oil.

It was recommended that a production string of casing be set through the Conglomerate sand to further test the zone. It is recommended that the sand body be perforated as nearly as possible in the top foot or two first. If a satisfactory fill-up is not obtained with these perforations, deeper perforations or a sand treatment of a type suitable for cleaning up the formation would be recommended.

If Sand body No. 1 makes a commercial well it is recommended that Sand body No. 2 be perforated at a later date, when future information indicates it advisable.

Yours sincerely,

Raymond M. Goodin

Raymond M. Goodin
Geologist

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