



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

December 9, 1966

CRA, Incorporated
Box 98
Wellington, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Holeman Lease, Well No. CT-2, Bourbon County, Kansas, and submitted to our laboratory on December 1, 1966.

This core was sampled and the samples sealed in plastic bags by a representative of the client. The well was drilled in virgin territory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

3 c. - Wellington, Kansas
1 c. - Muskogee, Oklahoma
1 c. - Roy Wood

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GENERAL INFORMATION & SUMMARY

Company CRA, Incorporated Lease Holeman Well No. CT-2

Location SW SE

Section 34 Twp. 24S Rge. 22E County Bourbon State Kansas

Name of Sand	Burgess
Top of Core	612.0
Bottom of Core	626.5
Top of Sand	612.3
Bottom of Sand	626.5
(Tested)	
Total Feet of Permeable Sand	12.2
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
20 - 100	5.1	5.1
100 - 199	7.1	12.2

Average Permeability Millidarcys	123.2
Average Percent Porosity	19.8
Average Percent Oil Saturation	18.1
Average Percent Water Saturation	61.3
Average Oil Content, Bbls./A. Ft.	274.
Total Oil Content, Bbls./Acre	3,339.
Average Percent Oil Recovery by Laboratory Flooding Tests	
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	
Total Calculated Oil Recovery, Bbls./Acre	
Packer Setting, Feet	
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	
Elevation, Feet	

-LOG-

Company CRA, Inc. Lease Holeman Well No. CT-2

Depth Interval, Description
Feet

612.0 - 612.3 - Gray and light brown, laminated sandstone and shale.
612.3 - 612.6 - Light brown sandstone.
612.6 - 613.7 - Grayish light brown, laminated, sandy shale.
613.7 - 617.8 - Light brown, slightly laminated, slightly calcareous sandstone.
617.8 - 618.2 - Gray sandy shale.
618.2 - 618.5 - Light brown, slightly shaly sandstone.
618.5 - 618.7 - Gray sandy shale.
618.7 - 619.5 - Light brown, laminated, slightly shaly sandstone.
619.5 - 619.8 - Gray sandy shale.
619.8 - 626.5 - Light brown, slightly shaly, slightly calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company CRA, Inc. Lease Holeman Well No. CT-2

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	612.5	19.8	23	55	353	103.	0.3	0.3	106	32.40
2	614.1	21.7	15	63	252	172.	0.3	1.2	227	154.80
3	615.2	21.2	14	67	230	188.	1.0	2.2	230	188.00
4	616.3	19.9	10	81	154	199.	1.0	3.2	154	199.00
5	617.1	21.5	13	71	216	177.	1.2	4.4	259	212.40
6	618.3	18.3	24	49	340	90.	0.3	4.7	102	27.00
7	619.1	21.6	19	59	318	79.	0.3	5.5	254	63.20
8	620.5	16.4	26	49	330	129.	1.0	6.5	330	128.00
9	621.2	18.0	23	57	321	23.	1.0	7.5	321	23.00
10	622.2	18.4	29	50	414	70.	1.0	8.5	414	70.00
11	623.3	20.6	22	50	351	43.	1.0	9.5	351	43.00
12	624.2	20.0	16	56	248	56.	1.0	10.5	248	56.00
13	625.1	19.2	14	66	208	188.	1.0	11.5	208	188.00
14	626.2	19.1	13	75	193	169.	0.7	12.2	135	118.30
Total									3,339	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.					
CRA, Inc.	Holeman	CT-2					
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
612.3 - 617.8	4.4	179.0	786.60	13.6	69.6	222	976
618.2 - 626.5	7.8	92.0	716.50	20.7	56.8	304	2,363
612.3 - 626.5	12.2	123.2	1,503.10	19.1	61.3	274	3,339