



# OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

March 13, 1979

CHN Oil Company  
2502 E. Douglas  
Wichita, Kansas 67214

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the R.V. Hale Lease, Well No. H-9, Allen County, Kansas, and submitted to our laboratory on March 10, 1979.

This core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

*Benjamin R. Pearman*  
Benjamin R. Pearman

SAM:km  
5 c to Wichita, Kansas



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## LOG

Company CHN Oil Company Lease R.V. Hale Well No. H-9

<u>Depth Interval, Feet</u>	<u>Description</u>
660.0 - 660.8	Gray shale.
660.8 - 662.3	Light brown and gray shaly sandstone.
662.3 - 663.7	Gray sandy shale.
663.7 - 666.1	Light brown very shaly sandstone.
666.1 - 666.7	Dark gray shale.
666.7 - 667.2	Gray very shaly sandstone.
667.2 - 667.8	Light brown slightly shaly sandstone.
667.8 - 668.3	Light brown and gray laminated sandstone and shale.
668.3 - 669.0	Light brown sandstone.
669.0 - 669.2	Gray shale.
669.2 - 672.2	Light brown finely laminated sandstone and shale.
672.2 - 675.3	Dark gray shale.
675.3 - 678.2	Light brown finely laminated sandstone and shale.
678.2 - 678.9	Light brown slightly carbonaceous shaly sandstone.
678.9 - 679.4	Coal.
679.4 - 681.5	Gray shale.
681.5 - 684.8	Gray slightly calcareous shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company CHN Oil Company Lease R.V. Hale Well No. H-9

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			Total	Chm. Ft.		
1	661.1	15.0	19	59	221	1.9	0.7	0.7	155	1.33
2	662.1	15.5	30	42	361	1.2	0.8	1.5	289	0.96
3	663.8	12.7	22	70	217	0.14	0.3	1.8	65	0.04
4	664.8	15.6	24	54	291	0.12	1.0	2.8	291	0.12
5	665.8	16.1	28	47	350	0.34	1.1	3.9	385	0.37
6	666.8	13.7	9	71	96	Imp.	0.5	4.4	48	0.00
7	667.6	16.6	27	46	348	4.9	0.6	5.0	209	2.94
8	668.5	15.4	34	43	406	11.	0.7	5.7	284	7.70
9	669.5	17.6	32	36	437	11.	0.8	6.5	350	8.80
10	670.5	16.1	27	53	337	3.4	1.0	7.5	337	3.40
11	671.5	16.6	27	54	348	3.4	1.2	8.7	418	4.08
12	675.5	20.1	33	40	515	10.	0.7	9.4	361	7.00
13	676.5	20.3	27	44	425	29.	1.0	10.4	425	29.00
14	677.3	18.9	30	44	440	15.	1.2	11.6	528	18.00
15	678.5	11.7	47	45	427	0.69	0.7	12.3	299	0.48

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	R.V. Hale	Well No.
CHN Oil Company			H-9
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
660.8 - 667.8	4.5	1.3	5.76
668.3 - 678.9	7.3	10.8	78.46
660.8 - 678.9	11.8	7.1	84.22

  

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
660.8 - 667.8	5.0	15.5	23.9	53.1	288	1,442
668.3 - 678.9	7.3	17.3	31.2	45.6	411	3,002
660.8 - 678.9	12.3	16.6	28.2	48.7	361	4,444