



OILFIELD RESEARCH LABORATORIES

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

March 5, 1979

CHN Oil Company
4011 E. 31st Street South
Wichita, Kansas 67210

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the R. V. Hale Lease, Well No. H-7, Allen County, Kansas, and submitted to our laboratory on February 28, 1979.

This core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:cb

5 c to Wichita, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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- LOG -

Company CHN Oil Company Lease R. V. Hale Well No. H-7

<u>Depth Interval, Feet</u>	<u>Description</u>
651.5 - 653.0	Gray sandy shale.
653.0 - 658.1	Grayish light brown shaly sandstone.
658.1 - 658.9	Brown slightly shaly sandstone.
658.9 - 659.3	Gray sandy shale.
659.3 - 660.2	Brown sandstone.
660.2 - 660.4	Gray sandy shale.
660.4 - 660.7	Brown slightly shaly sandstone.
660.7 - 661.3	Gray sandy shale.
661.3 - 669.3	Dark brown slightly shaly sandstone.
669.3 - 669.7	Gray and brown shaly sandstone.
669.7 - 670.4	Dark brown slightly shaly sandstone.
670.4 - 673.9	Gray and brown broken shaly sandstone.
673.9 - 674.3	Brown slightly shaly sandstone.
674.3 - 678.5	Brown slightly carbonaceous slightly conglomeratic shaly sandstone.
678.5 - 679.8	Dark gray shale.
679.8 - 680.4	Coal.
680.4 - 685.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company CHN Oil Company Lease R. V. Hale Well No. H-7

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			T. Feet	Cum. Ft.		
1	653.5	13.7	19	53	202	7.4	1.0	1.0	202	7.40
2	654.5	18.5	13	44	187	25.	1.0	2.0	187	25.00
3	655.5	18.6	13	43	188	12.	1.0	3.0	188	12.00
4	656.5	15.8	17	49	208	14.	1.0	4.0	208	14.00
5	657.5	16.7	26	40	337	8.3	1.1	5.1	370	9.13
6	658.5	20.1	38	33	593	49.	0.8	5.9	474	39.20
7	659.5	21.3	35	35	578	97.	0.9	6.8	520	87.30
8	660.5	18.1	22	41	309	21.	0.3	7.1	93	6.30
9	661.5	19.8	35	39	538	36.	0.7	7.8	376	25.20
10	662.5	20.4	43	32	681	90.	1.0	8.8	681	90.00
11	663.5	19.1	48	29	711	29.	1.0	9.8	711	29.00
12	664.5	17.9	60	34	833	22.	1.0	10.8	833	22.00
13	665.5	17.7	52	28	714	29.	1.0	11.8	714	29.00
14	665.5	16.1	38	43	475	39.	1.0	12.8	475	39.00
15	666.5	19.1	33	43	489	29.	1.0	13.8	489	29.00
16	667.5	19.7	33	40	504	34.	1.0	15.1	655	44.20
17	668.5	13.9	13	66	140	3.8	0.3	15.5	56	1.52
18	669.5	17.9	32	47	444	36.	0.6	16.1	266	21.60
19	670.5	17.9	31	49	431	43.	1.0	17.1	431	43.00
20	672.5	21.9	27	48	459	54.	1.0	18.1	459	54.00
21	673.5	20.8	33	41	533	40.	0.9	19.0	480	36.00
22	674.5	20.9	36	44	584	140.	0.7	19.7	409	98.00
23	675.5	20.9	42	35	681	1.4	1.0	20.7	681	1.40
24	676.5	9.9	64	30	492	0.57	1.0	21.7	492	0.57
25	677.5	6.7	78	15	405	0.18	1.5	23.2	608	0.27

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	R. V. Hale	Well No.		
CHN Oil Company			H-7		
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
653.0 - 658.1	5.1	13.3	67.53		
658.1 - 675.0	14.6	47.5	694.32		
675.0 - 678.5	3.5	0.64	2.24		
653.0 - 678.5	23.2	33.0	764.09		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
653.0 - 658.1	5.1	17.8	45.7	226	1,155
658.1 - 675.0	14.6	37.5	39.6	556	8,122
675.0 - 678.5	3.5	63.7	25.0	510	1,781
653.0 - 678.5	23.2	37.2	38.7	477	11,058