



OILFIELD RESEARCH LABORATORIES

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

May 2, 1981

CHN Oil Company
416 Union Center Bldg.
Wichita, Kansas 67202

Gentlemen:

Attached hereto are the results of tests run on the rotary cores taken from the Hale Lease, Well No. H-20, located in Section 27, T-26S, R-21E, in Allen County, Kansas.

The cores were sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on April 23, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/mkf

4 c to Wichita, Ks.
1 c to Chanute, Ks.

- REGISTERED ENGINEERS -

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

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LOGName CHN Oil Company Lease Hale Well No. H-20

<u>Depth Interval, Feet</u>	<u>Description</u>
	CATTLEMAN SAND
625.0 - 631.5	Grayish light brown shaly sandstone.
	BARTLESVILLE SAND
656.0 - 656.4	Gray shale.
656.4 - 657.7	Light brown slightly calcareous shaly sandstone.
657.7 - 658.7	Light brown slightly calcareous sandstone.
658.7 - 661.2	Grayish light brown slightly calcareous shaly sandstone.
661.2 - 661.8	Light brown slightly calcareous sandstone.
661.8 - 668.8	Grayish light brown slightly calcareous shaly sandstone.
668.8 - 669.6	Brown slightly calcareous sandstone.
669.6 - 676.7	Grayish light brown slightly calcareous shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company CHN Oil Company Lease Hale Well No. H-20

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbla. / A Ft.	Perm., Mill.
			Oil	Water	Total		
			CATTELMAN		SAND		
1	625.6	14.6	49	41	90	555	1.5
2	626.5	12.6	45	51	96	440	2.1
3	627.8	14.9	65	33	98	751	4.6
4	628.7	7.3	22	70	92	125	0.38
5	629.8	16.8	21	54	75	274	7.5
6	630.7	15.5	50	42	92	601	Imp.
			BARTLESVILLE		SAND		
7	656.5	18.0	29	39	68	405	5.2
8	657.4	18.0	15	45	60	210	7.8
9	658.5	16.5	35	21	56	448	10.
10	659.4	14.1	53	42	95	580	4.7
11	660.5	14.7	32	53	85	365	4.6
12	661.4	18.1	24	40	64	337	13.
13	662.6	10.6	45	47	92	370	0.17
14	663.4	10.7	47	48	95	390	Imp.
15	664.6	7.1	36	18	54	198	Imp.
16	665.6	8.6	60	25	85	400	0.28
17	666.4	15.3	18	42	60	214	7.2
18	667.6	12.2	57	22	79	540	5.0
19	668.5	13.4	30	54	84	312	4.6
20	669.4	20.9	30	24	54	486	74.
21	670.5	21.7	64	19	83	1077	2.5
22	671.5	18.3	12	36	48	170	5.0
23	672.5	17.6	38	30	68	519	2.6
24	673.6	17.6	53	19	72	724	5.4
25	674.4	15.9	25	11	36	308	6.1
26	675.5	17.5	36	3	39	489	1.6
27	676.4	16.1	31	34	65	387	1.0