

April 11, 1950

McDonald Drilling Company  
1012 North Pennsylvania Avenue  
Independence, Kansas

Attention: Mr. L. O. McDonald

Gentlemen:

Attached hereto are the results of permeability and porosity tests made on the No. 6 Baker barrel core taken from the Chaney Lease, Well No. 2, Montgomery County, Kansas, and submitted to our laboratory on April 5, 1950.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

William H. Sturdevant

WHS:bb  
C.C.

TWP \_\_\_\_\_  
RGE \_\_\_\_\_  
SEC \_\_\_\_\_  
*Montgomery County, Kansas*

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LOG

Company McDonald Drilling Company Lease CHANEY Well No. 2

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
1154.00 - 1156.10	- Light brown fine grained micaceous slightly shaley sandstone.
1156.10 - 1157.00	- Light brown fine grained micaceous sandstone.
1157.00 - 1157.20	- Gray sandy shale.
1157.20 - 1157.45	- Laminated shale and sandstone.
1157.45 - 1158.00	- Gray shale.
1158.00 - 1158.90	- Brown fine grained micaceous sandstone.
1158.90 - 1159.60	- Brown fine grained micaceous carbonaceous sandstone.
1159.60 - 1160.30	- Brown fine grained micaceous sandstone.
1160.30 - 1161.00	- Brown fine grained micaceous slightly carbonaceous sandstone.
1161.00 - 1161.17	- Brown fine grained micaceous sandstone.
1161.17 - 1161.37	- Gray shale.
1161.37 - 1163.83	- Brown fine grained micaceous sandstone.
1163.83 - 1164.30	- Brown medium grained micaceous slightly carbonaceous sandstone.
1164.30 - 1165.12	- Brown medium grained micaceous carbonaceous sandstone.
1165.12 - 1166.50	- Brown medium grained micaceous sandstone.
1166.50 - 1167.43	- Brown medium grained micaceous carbonaceous sandstone.
1167.43 - 1174.75	- Brown medium grained micaceous sandstone.
1174.75 - 1175.17	- Brown medium grained micaceous carbonaceous sandstone.

**Oil Field Research Laboratories**

**RESULTS OF PERMEABILITY TESTS**

**TABLE I**

Company McDonald Drilling Company Lease Chaney Well No. 2

Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.
			Ft.	Cum. Ft.	
1	1154.35	5.7	0.80	0.80	4.56
2	1155.35	10.	1.30	2.10	13.00
3	1156.23	79.	1.10	3.20	86.90
4	1157.41	1.0	0.25	3.45	0.25
5	1158.05	48.	0.90	4.35	43.20
6	1159.10	5.9	0.70	5.05	4.13
7	1160.10	15.	0.70	5.75	10.50
8	1161.15	109.	0.87	6.62	94.83
9	1162.10	8.3	1.33	7.95	11.04
10	1163.25	34.	1.13	9.08	38.42
11	1164.70	1.1	1.29	10.37	1.42
12	1165.80	38.	1.38	11.75	52.44
13	1166.55	41.	0.93	12.68	38.13
14	1167.60	38.	0.37	13.05	14.06
15	1168.10	62.	0.70	13.75	43.40
16	1168.66	110.	0.80	14.55	88.00
17	1169.80	117.	0.90	15.45	105.30
18	1170.60	52.	1.00	16.45	52.00
19	1171.75	7.4	1.00	17.45	7.40
20	1172.73	146.	1.00	18.45	146.00
21	1173.63	44.	0.90	19.35	39.60
22	1174.60	76.	0.65	20.00	49.40
23	1175.15	6.7	0.42	20.42	2.61

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TABLE II

RESULTS OF POROSITY TESTS

Company McDonald Drilling Company Lease Chaney Well No. 2

<u>Sample No.</u>	<u>Depth, Feet</u>	<u>Percent Porosity</u>
1	1154.75	19.0
2	1155.35	16.3
3	1156.23	19.8
4	1157.41	12.7
5	1158.05	17.4
6	1159.10	16.9
7	1160.10	21.5
8	1161.15	20.5
9	1162.10	15.3
10	1163.25	19.4
11	1164.70	14.6
12	1165.80	16.8
13	1166.55	17.5
14	1167.60	16.5
15	1168.10	17.3
16	1168.96	21.5
17	1169.80	18.3
18	1170.60	16.9
19	1171.75	15.7
20	1172.73	17.4
21	1173.63	15.8
22	1174.60	17.4
23	1175.15	14.0

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TABLE III

SUMMARY OF PERMEABILITY AND POROSITY TESTS

Company	<u>McDonald Drilling Company</u>	Lease	<u>CRANEY</u>	Well No.	<u>2</u>
Depth Interval, Feet	- - - - -			1158.00	- 1175.17
Feet of Core Analyzed	- - - - -			20.42	
Average Permeability, Millidarcys	- - - - -			46.37	
Permeability Capacity, Ft. x Md.	- - - - -			946.79	
Average Percent Porosity	- - - - -			17.41	