

September 25, 1950

The Ohio Oil Company
Thompson Building
Tulsa, Oklahoma

Attention: Mr. R. E. McMillen

Gentlemen:

Enclosed herewith are the results of permeability and porosity tests made on the 2½" rotary core taken from the Martindell Lease, Well No. 41, Greenwood County, Kansas, and submitted to our laboratory on September 15, 1950.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:mm
c.c. to Mr. Fred Kluck

THE OHIO OIL COMPANY
CORE ANALYSIS REPORT
MARTINDELL LEASE WELL NO. 41
GREENWOOD COUNTY, KANSAS

OIL FIELD RESEARCH LABORATORIES

CHANUTE, KANSAS

SEPTEMBER 26, 1950

OIL FIELD RESEARCH LABORATORIES

LOG

Company The Ohio Oil Company Lease Martindell Well No. 41

<u>Depth Interval, Feet</u>	<u>Description</u>
2338.00 - 2338.73	- Gray sandy shale.
2338.73 - 2338.95	- Light brown fine grained micaceous sandstone.
2338.95 - 2340.35	- Light brown fine grained micaceous slightly shaley sandstone.
2340.35 - 2341.00	- Light brown fine grained micaceous slightly shaley carbonaceous sandstone.
2341.00 - 2342.65	- Laminated sandy shale.
2342.65 - 2342.85	- Light brown fine grained micaceous slightly shaley sandstone.
2342.85 - 2344.00	- Brown fine grained micaceous sandstone.
2344.00 - 2357.00	- Loss.
2357.00 - 2358.20	- Light brown fine grained micaceous sandstone.
2358.20 - 2358.40	- Light brown fine grained micaceous slightly laminated carbonaceous sandstone.
2358.40 - 2359.10	- Light brown fine grained sandstone.
2359.10 - 2359.75	- Light brown fine grained slightly laminated micaceous carbonaceous sandstone.
2359.75 - 2359.91	- Gray shale.
2359.91 - 2360.45	- Light brown fine grained micaceous sandstone.
2360.45 - 2364.00	- Gray sandy shale.
2364.00 - 2364.30	- Light brown fine grained calcareous finely laminated carbonaceous sandstone.
2364.30 - 2364.96	- Light brown medium grained micaceous calcareous slightly conglomeratic sandstone.
2364.96 - 2365.48	- Light brown fine grained micaceous sandstone.
2365.48 - 2365.58	- Laminated shaley sandstone.
2365.58 - 2365.70	- Sandy conglomerate.
2365.70 - 2366.00	- Black shale.
2366.00 - 2368.00	- Black shale (discarded at well).

Oil Field Research Laboratories
RESULTS OF PERMEABILITY TESTS
TABLE I

Company The Ohio Oil Company Lease Martindell Well No. 41

Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.
			Ft.	Cum. Ft.	
1	2338.85	5.0	0.22	0.22	1.10
2	2339.90	1.4	1.40	1.62	1.96
3	2340.80	32.	0.65	2.27	20.80
4	2342.89	22.	0.65	2.92	14.30
5	2343.80	62.	0.70	3.62	43.40
6	2357.70	34.	1.20	4.82	40.80
7	2358.75	23.	0.70	5.52	16.10
8	2360.23	8.1	0.55	6.07	4.46
9	2364.33	1.4	0.66	6.73	0.92
10	2365.26	7.1	0.52	7.25	3.69

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RESULTS OF POROSITY & EFFECTIVE PERMEABILITY TESTS

TABLE II

Company	The Ohio Oil Company	Lease	Martindell	Well No.	41
<u>Sample No.</u>	<u>Depth, Feet</u>	<u>Effective Permeability Millidarcys</u>		<u>Effective Porosity Percent</u>	
1	2338.85	2.38		14.8	
2	2339.90	0.159		13.8	
3	2340.80	Imp.		13.6	
4	2342.89	6.68		17.4	
5	2343.80	34.80		16.8	
6	2357.70	11.15		16.0	
7	2358.75	7.68		17.2	
8	2360.23	4.05		16.1	
9	2364.33	0.166		8.8	
10	2365.26	1.74		14.5	

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE III

<u>Depth Interval, Feet</u>	<u>Company</u>	<u>The Ohio Oil Company</u>	<u>Lease</u>	<u>Martindell</u>	<u>Well No.</u>	<u>41</u>
		<u>Feet of Core Analyzed</u>	<u>Average Permeability Millidarcys</u>	<u>Average Effective Permeability</u>	<u>Permeability Capacity Ft. X Md.</u>	<u>Average Effective % Porosity</u>
2338.73-2365.48		7.25	20.35	7.80	147.53	14.88