# CORE ANALYSIS REPORT

PENNZOIL COMPANY
J. V. R. SKINNER NO. 20 WELL
KANAWHA COUNTY, WEST VIRGINIA

CORE LABORATORIES, INC.

P. O. Box 131
Mt. Pleasant, Mich. 48858

Pennzoil Company
P. O. Drawer 1588
Parkersburg, W. Va. 26101

File No: 3602-487 July 5, 1979

Att: Mr. George P. SanFilippo

Re: Core Analysis Report
Wier Sandstone Formation
J. V. R. Skinner No. 20 Well
Blue Creek-Skinner Field
Kanawha County, West Virginia

#### Gentlemen:

A diamond core from this well between the depths of 1731 feet and 1775 feet has been received in our Michigan laboratory. The following analyses have been performed on this core in accordance with your letter of June 7, 1979:

- 1. Grain density and whole core porosity.
- Vertical whole core permeability determinations on l'intervals. Vertical plug permeability was run if the samples were too small for vertical whole core permeabilities.
- 3. Horizontal plug permeability on 1' intervals of the core. All plug samples taken from the center of the core.
- 4. 90° plug permeability on 1' intervals of the core as close as possible to the same plain as the above plug.
- 5. Fluid saturations on l'intervals.

Results of these analyses are herein submitted in tabular form.

The core will be returned to your office via motor freight. The opportunity to be of service on this well is appreciated and please call if you have any questions.

Very truly yours,

CORE LABORATORIES, INC.

make manesal

Mabre Maness, District Manager

er encl.

# CORE LABORATORIES, INC. Petroleum Reservoir Engineering

PENNZOIL COMPANY
J. V. SKINNER NO. 20 WELL
BLUE CREEK-SKINNER FIELD
KANAWHA COUNTY, W.VA.

JUNE 11, 1979

FILE NO. 3602-487

ANALYST: REINHEIMER

#### WIER SANDSTONE FORMATION

## FULL DIAMETER ANALYSIS

SMP.	DEPTH	GRN. DNS.	POROSITY GEX	PERMEABILITY DATA FULL DIAMETER PLUG		FLUID SATURATIONS OIL WATER		DESCRIPTION	
NO.		DNO.	GEA	VERT.	0°	900	%P.V.	%P.V.	
1	1737.1-38	2.68	8.2	0.6	1.5	1.6	16.1	10.9	SS
2	1738-39	2.66	7.2	<0.1	0.8	0.2	21.8	14.6	SS
3	1739-40	2.67	8.2	0.3	0.6	0.6	21.7	15.1	SS
4	1740-41	2.67	8.6	0.4	0.6	1.0	21.8	15.2	SS
5	1741-42	2.67	8.3	0.6	1.9	1.0	19.3	11.2	SS
6	1742-43	2.67	7.8	0.1	1.0	1.0	20.3	11.9	SS
7	1743-44	2.68	9.3	0.7	1.3	1.7	20.9	12.7	SS
8	1744-45	2.69	8.3	0.3	0.4	0.4	23.3	14.1	SS
9	1745-46	2.65	7.9	0.3	1.3	1.3	18.2	12.4	SS,SL/SHLY
10	1746-47	2.68	12.7	<0.1	1.5	3.5	29.0	18.5	SS
11	1747-48	2.74*	8.9	<0.1	*	0.6	25.7	16.9	SS, SHLY
12	1748-49	2.67	11.3	0.1	0.6	0.6	23.0	16.1	SS
13	1749-50	2.76*	13.8	<0.1	*	0.2	23.4	16.6	SS
14	1750-51	2.66	14.7	0.3		26	23.0	16.1	SS
15	1751-52	2.69	10.1	<0.1	0.4	0.4	20.8	18.1	SS
16	1752-53	2.66	8.1	0.3	0.6	0.6	18.5	16.2	SS
17	1753-54	2.67	7.4	<0.1	0.2	0.2	20.9	18.2	SS
18	1754-55	2.65	7.1	<0.1	0.2	0.2	13.2	16.5	SS,SL/SHLY
19	1755-56	2.64	7.1	<0.1	0.2	0.2	15.9	19.7	SS,SL/SHLY
20	1756-57	2.66	7.6	<0.1	0.6	0.2	15.5	18.7	SS
21	1757-58	2.66	7.6	<0.1	0.8	0.8	14.4	17.5	SS
22	1758-59	2.67	7.5	0.5	0.8	0.8	18.5	13.4	SS

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PENNZOIL COMPANY
J. V. SKINNER NO. 20 WELL
BLUE CREEK-SKINNER FIELD
KANAWHA COUNTY, W.VA.

JUNE 11, 1979

FILE NO. 3602-487

ANALYST: REINHEIMER

WIER SANDSTONE FORMATION

### FULL DIAMETER ANALYSIS

	-		POROSITY	TY DATA		FLUID SATURATIONS		DESCRIPTION		
	NO.		DNS.	GEX	FULL DIAMETER	<u> </u>	LUG	OIL	WATER	
,	Joe				VERT.	0°	900	%P.V.	%P.V.	
18/2	23	1759-60	2.66	7.0	0.3	1.3	0.4	23.4	17.0	SS
3	24	1760-61	2.66	8.7	0.1	0.4	0.3	20.2	14.8	SS
	25	1761-62	2.66	8.4	0.3	0.8	0.6	15.9	16.3	SS
	26	1762-63	2.66	7.0	<0.1	0.4	<0.1	17.8	18.2	SS
	27	1763-64	2.65	8.5	0.2	0.4	0.6	19.9	18.8	SS
	28	1764-65	2.65	8.5	1.1	1.9	2.1	15.7	14.6	SS
	29	1765-66	2.66	8.8	0.8	1.7	2.1	17.2	16.0	SS
	30	1766-67	2.62	9.6	1.5	2.5	3.3	17.2	16.0	SS, SHLY
	31	1767-68	2.65	8.0	0.4	0.6	0.8	18.0	17.0	SS,SL/SHLY
	32	1768-69	2.67	9 15/ 1	0.4	1.0	4.4	23.1 // ^	30.8	SS
73	33	1769-70	2.67	11.8	1.4	80	21	14.7/	19.6	SS ,
	34	1770-71	2.68	9.2	. 1.4	1.7	1.7	18.9	25.0	SS
	35	1771-72	2.67	22.5	409	1157	1683	9.0	18.0 A	SS
	36	1772-73	2.68	15.0	0.5	15	11	16.7	33.4 7	SS
76.5	37	1773-74	2.65	24.5	514	1052	2987	11.8	23.6	SS
	38	1774-74.7	2.70*	11.8	<0.1	*	4.4	12.7	25.1	SS,SL/SHLY



## DISTRIBUTION OF FINAL REPORTS

5 Copies

Mr. George P. SanFilippo Pennzoil Company P. O. Drawer 1588 Parkersburg, W. Va. 26101