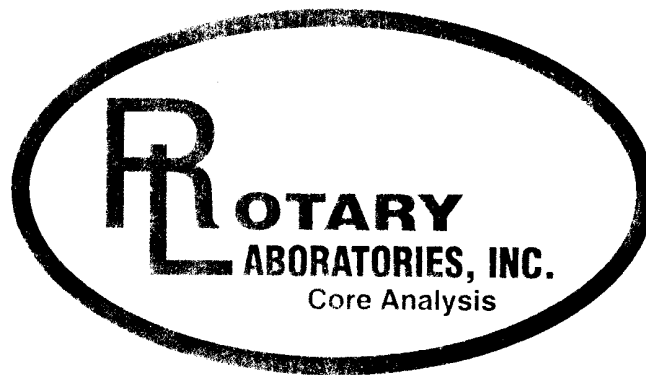




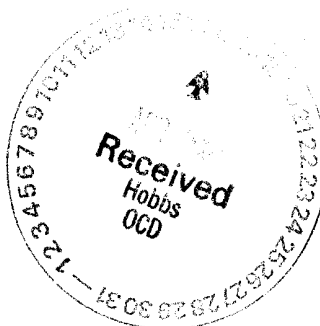
Rotary Sidewall Core Analysis Report

For

PATTERSON PETROLEUM LP

PADDY '19' STATE # 1

LEA COUNTY, NEW MEXICO



February 8, 2007



PATTERSON PETROLEUM LP

P.O. Drawer 1416
Snyder, TX 79550

Attn: NOLAN VON ROEDER

RE: PADDY '19' STATE # 1
Rotary Sidewall Core Analysis

Mr. VON ROEDER :

The core analysis data from the above referenced well is enclosed in the following pages. All quality control data is enclosed in a separate section of the report. The data, results, and photographic negatives will be maintained in our files for your future reference. If you have any questions regarding our results or procedures, please do not hesitate to contact us. We appreciate the opportunity to analyze the core from the above referenced well and look forward to working with you again in the future.

PATTERSON PETROLEUM LP

P.O. Drawer 1416
Snyder, TX 79550

Attn: NOLAN VON ROEDER

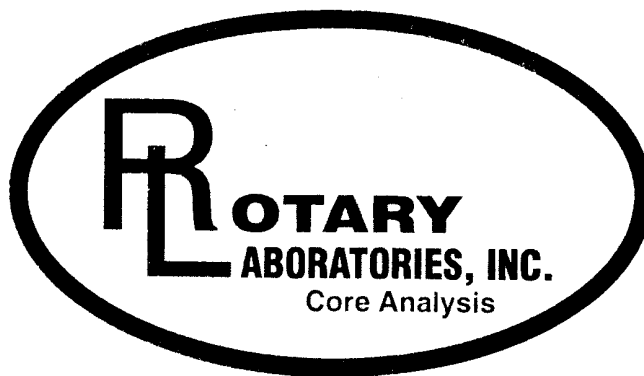
2 Copies of the report (1 with photographs and 1 CD-ROM)

Distribution:

Enclosed on following page

Sincerely,

Wayne Helms, President
Rotary Laboratories, Inc.



CORE ANALYSIS PROCEDURES
FOR
PATTERSON PETROLEUM LP
PADDY '19' STATE # 1
LEA COUNTY, NEW MEXICO

The Rotary Sidewalls were delivered to Rotary Laboratories, Inc.

Gases from the Sidewalls were measured by Hot Wire Chromatography and reported in Gas Units.

A brief Lithological Description of the Sidewalls was recorded.

A description of the Fluorescence of the Sidewalls was recorded.

Ultraviolet Light Photographs were taken of the Sidewalls for a permanent record.

Natural Light Photographs were taken of the Sidewalls for a permanent record.

Composite Photographs of the Sidewall End Trims were taken under Natural and Ultraviolet Light.

The Sidewalls were extracted utilizing the Dean Stark method.

The fluids were measured by the Dean Stark method.

Porosities were measured in a Boyle's Law Porosimeter utilizing Helium.

Permeabilities were measured in a Hassler Sleeve Permeameter utilizing Nitrogen at 300 psi confining pressure.

Test samples of a known permeability were measured before and after the Sidewall permeabilities were measured.

ROTARY SIDEWALL CORE ANALYSIS

PATTERSON PETROLEUM LP
PADDY 19 STATE # 1
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-38227
FIELD : Paddock, East
LOCATION: 1995' FNL, 550' FWL,
Section 19, T-17-S, R-33-E

FILE NO. : 070131-3
DATE : February 2, 2007
ANALYSTS : WH, SB, PK, JR

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POROSITY %	PERM mD	SATURATIONS Sw	So	GAS UNITS	FLUORESCENCE %	LITHOLOGY
1	5,723.0	2.75	9.0	0.104	66.0	0.0	1	0	Ss opaq-gy vf-fgr sbrnd-sbang ssly scalc tr pyr
2	5,829.0	2.84	10.5	5.221	27.2	29.9	234	90	Brt yl-dl yl-bl Dol tn-brn ssly sdy sc ppp
3	5,830.0	2.84	1.9	0.021	43.7	Tr	3	Tr	Brt yl-dl yl-bl Dol tn-brn ssly tr ppp
4	5,836.0	2.85	6.6	0.391	17.8	31.0	141	70	Brt yl-dl yl-bl Dol tn-brn ssly ssdy sc ppp tr anhy
5	5,839.0	2.83	4.4	0.043	42.4	17.2	52	20	Brt yl-dl yl-bl Dol tn-brn ssly tr ppp
6	5,843.0	2.84	7.0	0.767	7.7	11.9	327	80	Brt yl-dl yl-bl Dol tn-brn ssly ssdy anhyd sc ppp
7	5,844.0	2.86	9.3	1.204	13.8	25.4	370	90	Brt yl-dl yl-bl Dol tn-brn ssly sdy sc ppp
8	5,845.0	2.85	13.6	42.210	20.8	25.6	146	80	Brt yl-dl yl Dol tn-brn ssly sdy sc ppp
9	5,846.0	2.85	13.3	47.817	27.8	26.9	104	80	Brt yl-dl yl Dol tn-brn ssly sdy anhyd sc ppp
10	5,849.0	2.85	6.1	3.006	31.9	17.5	115	70	Brt yl-dl yl Dol tn-brn ssly sdy anhyd sc ppp frac
11	5,850.0	2.83	4.9	0.139	26.2	11.0	218	30	Brt yl-gld Dol tn-brn ssly sdy anhyd sc ppp
12	5,858.0	2.85	4.2	0.110	49.1	Tr	15	10	Brt yl-gld Dol crm-tn dns ssly anhy fd frac
13	5,866.0	2.85	4.5	0.044	54.9	Tr	1	Tr	Brt yl-gld Dol crm-tn dns ssly tr ppp anhy fd frac
14	5,870.0	2.85	15.6	106.699	72.0	0.0	0	0	DI mf Dol tn-brn ssly sdy suc tr ppp tr anhy
15	5,871.0	2.86	11.8	9.441	70.0	0.0	1	0	DI mf Dol tn-brn ssly sdy suc i/p tr ppp tr anhy
16	5,875.0	2.84	8.1	5.275	63.7	0.0	0	0	DI mf Dol tn-brn ssly sdy suc i/p tr ppp tr anhy
17	5,881.0	2.84	5.0	0.090	58.8	0.0	0	0	DI mf Dol tn-brn ssly tr ppp tr anhy tr pyr
18	5,884.0	2.80	3.2	<.001	65.4	0.0	0	0	DI mf Dol tn-brn ssly tr ppp



ROTARY SIDEWALL CORE ANALYSIS

PATTERSON PETROLEUM LP
PADDY 19 STATE # 1
LEA COUNTY, NEW MEXICO

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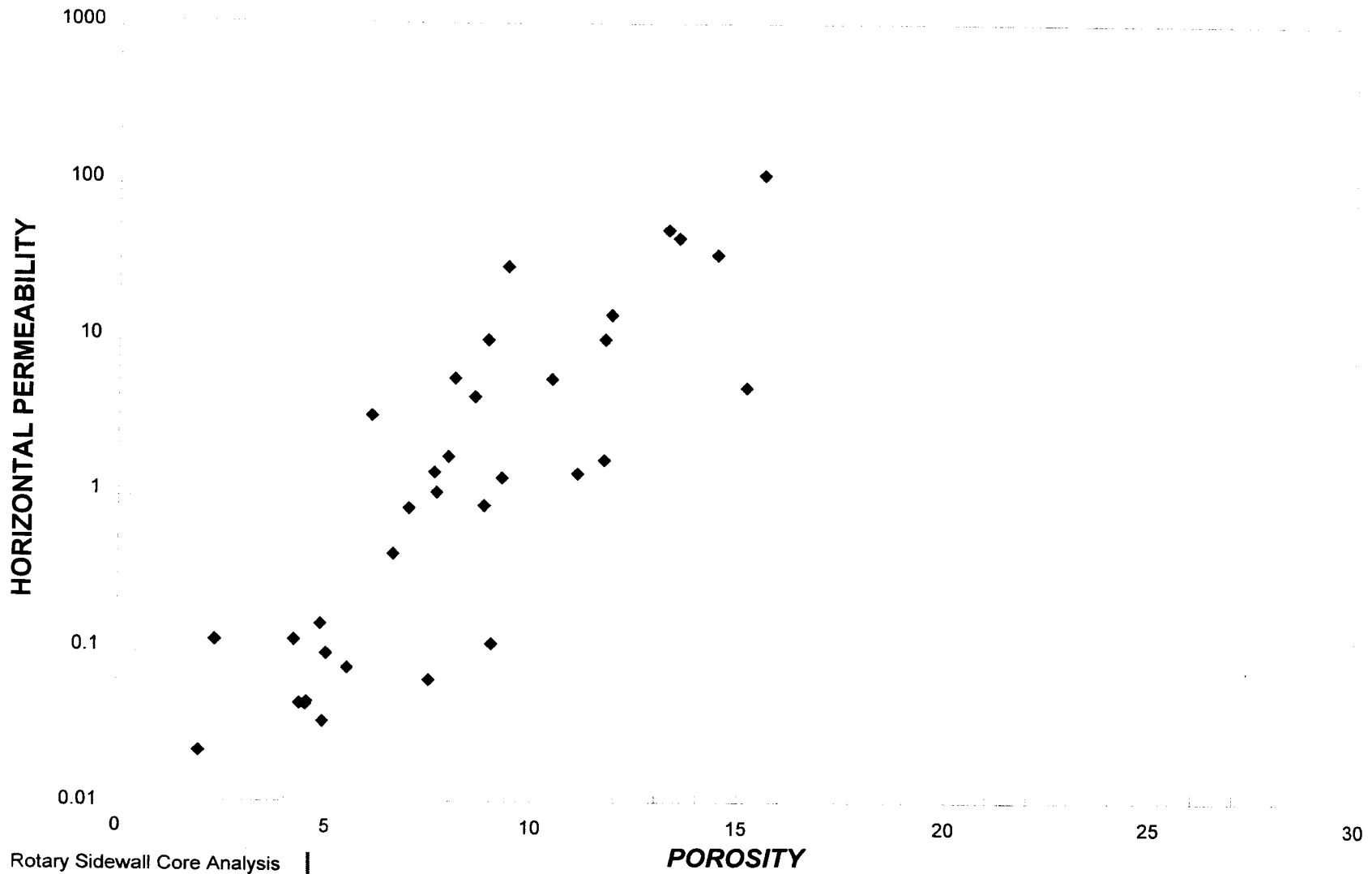
FILE NO. : 070131-3
DATE : February 2, 2007
ANALYSTS : WH, SB, PK, JR

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POROSITY %	PERM mD	SATURATIONS Sw	So	GAS UNITS	FLUORESCENCE %	LITHOLOGY
19	5,885.0	2.84	4.5	0.043	51.8	0.0	0	0	DI mf Dol tn-brn ssly tr ppp
20	5,897.0	2.84	7.6	1.297	61.4	0.0	0	0	DI mf Dol tn-brn ssly tr ppp
21	5,958.0	2.80	7.5	0.061	59.1	0.0	0	0	DI mf Dol tn-gy ssly tr anhy tr pyr
22	5,959.0	2.80	4.9	0.033	66.2	0.0	2	0	DI mf Dol tn-brn ssly anhyd sc sty tr pyr
23	5,967.0	2.85	8.0	1.648	5.2	16.0	277	90	Brt yl-bl Dol tn-brn mod-ssly sc ppp
24	5,969.0	2.84	8.6	4.013	9.1	23.2	296	90	Brt yl-bl Dol tn-brn mod-ssly sc ppp
25	5,973.0	2.82	2.3	0.109	33.3	Tr	26	10	Brt yl-bl Dol tn-brn ssly tr ppp
26	6,007.0	2.86	5.5	0.073	59.3	Tr	0	Tr	Brt gld Dol tn-brn ssly tr ppp
27	6,011.0	2.84	8.9	9.330	23.9	19.5	215	90	Brt gld Dol tn-brn ssly sc ppp tr pyr
28	6,012.0	2.85	7.7	0.969	58.0	12.1	29	40	Brt gld Dol tn-brn ssly sc ppp anhy fd frac tr pyr
29	6,014.0	2.85	8.9	0.797	39.2	10.1	78	60	Brt gld Dol tn-brn mod-ssly sc ppp
30	6,039.0	2.86	11.9	13.588	27.8	15.7	265	90	Brt gld Dol tn-brn mod-ssly sc ppp-sml vug
31	6,040.0	2.86	11.8	1.574	56.3	10.4	80	60	Brt gld Dol tn-brn mod-ssly sdy sc ppp
32	6,041.0	2.92	9.4	27.505	40.7	14.9	33	70	Brt gld Dol tn-brn mod-ssly sdy sc ppp lrg anhy incl frac
33	6,042.0	2.87	15.2	4.623	76.7	3.8	1	10	DI gld Dol tn-brn ssly sdy sc ppp
34	6,043.0	2.86	11.1	1.287	77.7	0.0	0	0	Dol tn-brn ssly sdy sc ppp
35	6,050.0	2.87	10.8	tbfa	50.7	0.0	0	0	Dol tn-brn mod-ssly sdy sc ppp frac
36	6,065.0	2.86	14.5	33.163	73.7	0.0	12	0	Dol tn-brn mod-ssly sdy suc i/p sc ppp tr anhy



PATTERSON PETROLEUM LP
PADDY 19 STATE # 1



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PATTERSON PETROLEUM LP
PADDY 19 STATE # 1
02/08/2007

QUALITY CONTROL RERUN DATA

Sample No.	GRAIN DENSITY		POROSITY		<i>k</i> standard Test Sample	PERMEABILITY	
	original	reruns	original	reruns		original	reruns
2	2.839	2.837	10.48	10.42	2.619	5.221	5.251
6	2.838	2.838	7.00	7.01			
9	2.852	2.854	13.31	13.35		47.817	47.769
12	2.850	2.849	4.21	4.19		0.110	0.099
15	2.860	2.859	11.78	11.74			
18	2.798	2.799	3.22	3.26		<.001	<.001
23	2.846	2.846	7.97	7.98			
27	2.841	2.842	8.94	8.95		9.330	9.071
31	2.861	2.861	11.76	11.79			
36	2.856	2.856	14.49	14.47	2.615	33.163	33.197