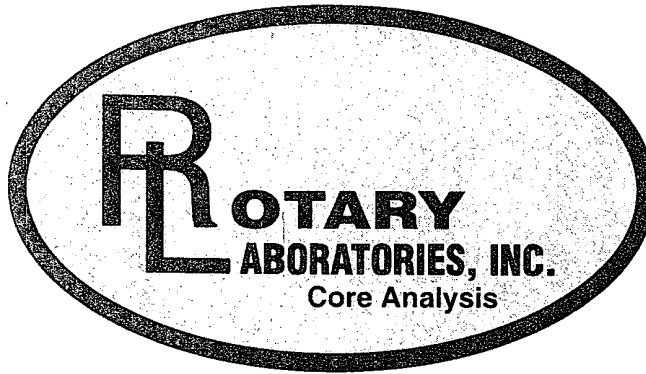




P-13-17s-33e
330/S & 330/E
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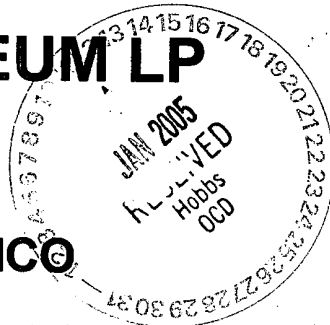
CORE ANALYSIS PROCEDURES

FOR

PATTERSON PETROLEUM LP

PADDY 13 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 13 STATE # 1
LEA COUNTY, NEW MEXICO

FIELD : Wildcat

FILE NO. : 041007-1
DATE : October 7, 2004
ANALYSTS : WH, SB, PK

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POROSITY %	PERM mD	SATURATIONS Sw	So	GAS UNITS	FLUORESCENCE %	LITHOLOGY
1	5,867.0	2.85	5.3	tbfa	13.9	18.4	206	90	Br t yl-grn-bl Dol tn-brn ssly ssdy sc ppp sc anhy incl sty frac
2	5,868.0	2.85	5.6	0.01	44.1	7.0	25	20	Br t yl-grn-bl sp Dol tn-brn ssly ssdy sc ppp sc anhy incl
3	5,874.0	2.85	5.0	0.01	49.4	Tr	7	Tr	Br t yl-grn-bl Dol tn-brn ssly ssdy sc ppp
4	5,875.0	2.84	3.3	0.03	22.5	8.7	18	30	Br t yl-grn-bl Dol tn-brn ssly ssdy tr ppp-sml vug frac
5	5,876.0	2.82	2.1	1.05	42.8	0.0	0	0	DI mf Dol tn-brn ssly ssdy tr ppp-sml vug frac
6	5,888.0	2.85	4.1	0.03	55.7	0.0	0	0	DI mf Dol tn-brn ssly ssdy anhyd tr ppp-sml vug hal
7	5,896.0	2.83	9.8	5.19	75.9	0.0	5	0	DI mf Dol tn-brn ssly sdy suc i/p sc ppp sc anhy incl hal
8	5,901.0	2.82	11.9	29.59	76.2	0.0	4	0	DI mf Dol tn-brn ssly sdy suc i/p sc ppp sc anhy incl hal
9	5,902.0	2.82	5.1	0.08	78.6	0.0	1	0	DI mf Dol tn-brn ssly ssdy sc ppp sc anhy incl hal
10	5,903.0	2.84	7.2	0.11	84.4	0.0	2	0	DI mf Dol tn-brn ssly ssdy tr ppp sc anhy incl
11	5,913.0	2.96	0.4	<.01	20.5	0.0	0	0	Anhy bl-wht
12	5,916.0	2.81	0.6	0.72	57.0	0.0	0	0	DI mf Dol tn-brn ssly ssdy tr ppp frac
13	5,918.0	2.80	0.3	<.01	96.4	0.0	0	0	DI mf Dol tn-brn ssly ssdy tr ppp
14	5,927.0	2.83	7.1	3.36	81.1	0.0	0	0	DI mf Dol tn-brn ssly ssdy suc i/p sc ppp sc anhy incl ha
15	5,934.0	2.82	3.8	0.01	62.9	0.0	0	0	Dol brn ssly ssdy anhyd tr ppp
16	5,951.0	2.82	3.9	<.01	35.7	0.0	2	0	Dol brn ssly ssdy anhyd tr ppp frac
17	6,012.0	2.81	3.1	0.01	55.6	0.0	2	0	DI mf Dol tn-brn ssly ssdy tr ppp hal
18	6,013.0	2.81	5.7	<.01	63.4	0.0	3	0	DI mf Dol crm-tn ssly ssdy tr ppp tr anhy tr pyr



ROTARY SIDEWALL CORE ANALYSIS

PATTERSON PETROLEUM LP
PADDY 13 STATE # 1
LEA COUNTY, NEW MEXICO

FIELD : Wildcat

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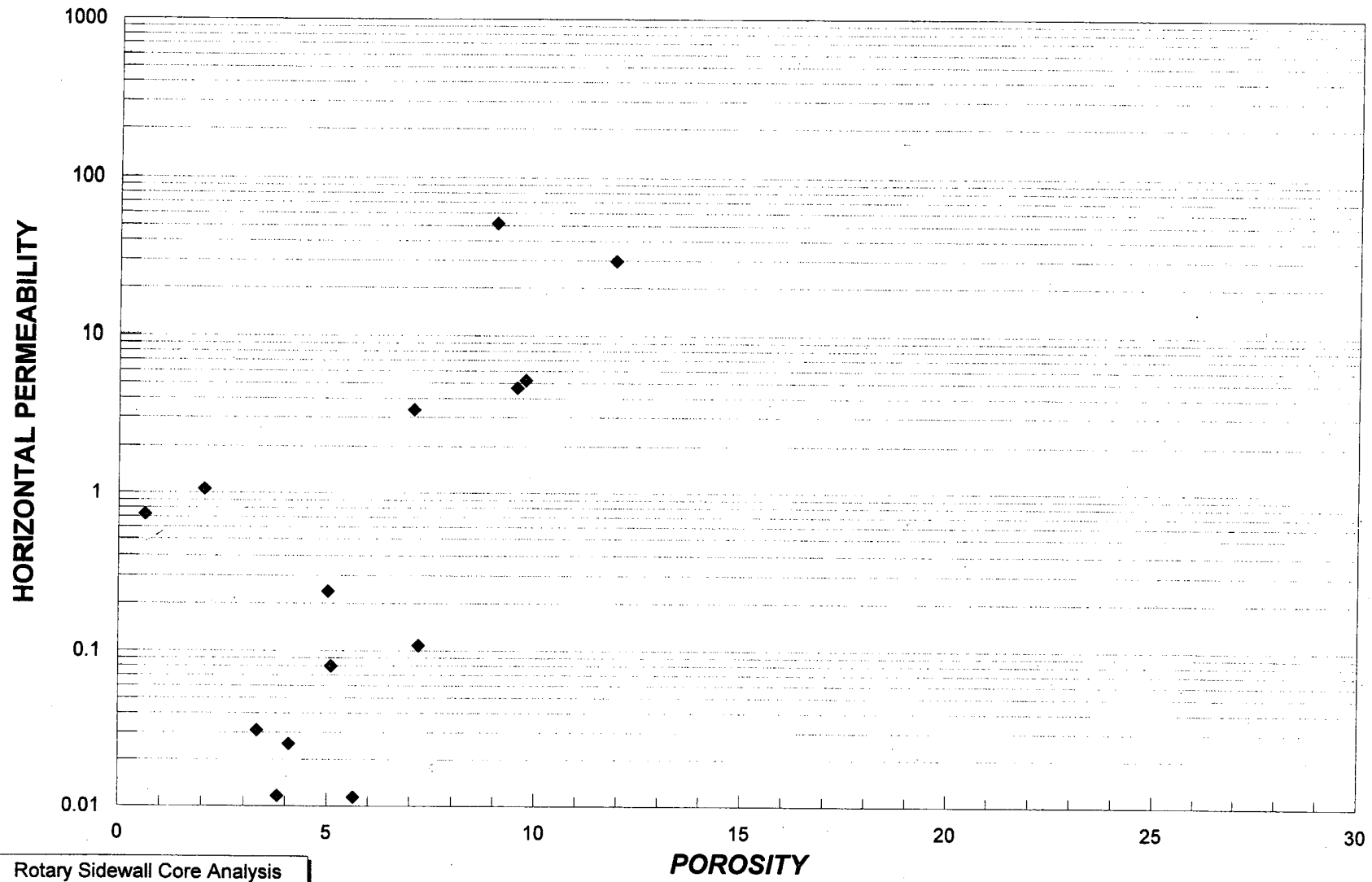
DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POROSITY %	PERM mD	SATURATIONS Sw	So	GAS UNITS	FLUORESCENCE %	LITHOLOGY
19	6,032.0	2.86	5.0	0.24	9.6	9.2	116	80	Brt yl-grn-bl Dol brn ssly ssdy suc i/p sc ppp-sml vug
20	6,039.0	2.74	5.1	<.01	85.2	0.0	18	0	cont Dol brn ssly ssdy suc i/p sc ppp-sml vug hal
21	6,064.0	2.87	9.0	51.46	40.4	11.7	97	60	Gld Dol brn ssly ssdy suc i/p sc ppp-sml vug
22	6,076.0	2.84	9.6	4.62	59.0	0.0	51	0	cont Dol brn ssly ssdy suc i/p sc ppp-sml vug

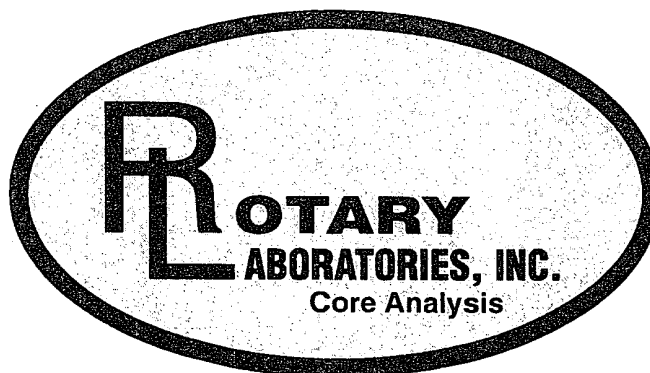


PATTERSON PETROLEUM LP

PADDY 13 STATE # 1



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PATTERSON PETROLEUM LP
PADDY 13 STATE # 1
10/08/2004

QUALITY CONTROL RERUN DATA

Sample No.	GRAIN DENSITY		POROSITY		<i>k</i> standard Test Sample	PERMEABILITY	
	original	reruns	original	reruns		original	reruns
2	2.848	2.848	5.64	5.61	2.609	0.011	0.011
5	2.822	2.821	2.05	2.02			
8	2.817	2.815	11.94	11.88		29.593	29.613
10	2.841	2.843	7.20	7.27			
13	2.804	2.803	0.28	0.24		<.01	<.01
16	2.822	2.822	3.94	3.92		<.01	<.01
19	2.863	2.862	5.02	4.98			
21	2.870	2.869	9.05	9.01		51.457	51.491
22	2.836	2.837	9.55	9.60	2.606	4.623	4.609