February 1, 2006

ROTARY LABORATORIES, INC.
Core Analysis

PATTERSON PETROLEUM LP
P.O. Drawer 1416
Snyder, TX 79550

Attn: NOLAN VON ROEDER

RE: BOUGAINVILLEA '33' 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.

ROTARY LABORATORIES, INC.
Core Analysis

CORE ANALYSIS PROCEDURES

FOR

PATTERSON PETROLEUM LP

BOUGAINVILLEA '33' 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.

P.O. Box 3501 • Midland, Texas 79702-3501 • 432-684-8800 • Fax 432-684-8821 • E-mail rotarylab@prodigy.net

ROTARY SIDEWALL CORE ANALYSIS

PATTERSON PETROLEUM LP
BOUGAINVILLEA '33' STATE # 1
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-37567
FIELD : Vacuum (Morrow)
SURFACE LOCATION : 2010' FSL, 660' FEL, Section 33, T-17-S, R-34-E

FILE NO. : 060128-1
DATE : January 30, 2006
ANALYSTS : WH, SB, PK

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POROSITY %	PERM mD	SATURATIONS Sw	SATURATIONS So	GAS UNITS	FLUORESCENCE %		LITHOLOGY
	Core correlated to Sonic Gamma Ray due to stick and pull on main log									
1	13,010.0	2.69	9.6	0.67	62.9	0.0	13	0		Ss opaq-gy-brn vf-crsgr sbrnd-ang sslty scalc frac
2	13,011.0	2.65	7.7	0.22	28.6	Tr	71	80	Fnt yl-grn	Ss opaq-gy-wht-brn vf-crsgr sbrnd-ang sslty frac
3	13,011.0	2.65	8.0	0.32	31.4	Tr	45	80	Fnt yl-grn	Ss opaq-gy-wht-brn vf-crsgr sbrnd-ang sslty frac
4	13,012.0	2.64	7.9	0.49	34.4	Tr	53	80	Fnt yl-grn	Ss opaq-gy-wht-brn vf-crsgr sbrnd-ang sslty
5	13,013.0	2.66	8.9	0.15	34.6	Tr	52	80	Fnt yl-grn	Ss opaq-gy-wht-brn vf-crsgr sbrnd-ang sslty frac
6	13,014.0	2.64	9.6	0.21	62.3	Tr	36	80	Fnt yl-grn	Ss opaq-gy-wht-brn vf-crsgr sbrnd-ang sslty
7	13,015.0	2.66	11.4	0.33	55.9	Tr	37	80	Fnt yl-grn	Ss opaq-gy-wht-brn vf-crsgr sbrnd-ang sslty frac
8	13,016.0	2.66	11.6	0.34	57.1	Tr	49	80	Fnt yl-grn	Ss opaq-gy-wht-brn vf-crsgr sbrnd-ang sslty frac
9	13,017.0	2.65	13.8	0.23	70.1	Tr	34	80	Fnt yl-grn	Ss opaq-gy-wht-brn vf-crsgr sbrnd-ang sslty frac
10	13,033.0	2.90	3.5	0.04	85.5	0.0	13	0		Ls gy-dk gy slty foss sc sty s/p abd pyr
11	13,034.0	2.72	2.0	tbfa	90.3	0.0	14	0		Ls tn-brn-gy mod-sslty ssdy foss sc slty lam s/p tr pyr
12	13,109.0	2.68	6.6	0.02	31.1	0.0	42	0		Ss opaq-tn vf-fgr sbrnd-sbang sslty scalc frac
13	13,110.0	2.69	4.5	0.02	23.7	0.0	39	0		Ss opaq-tn vf-fgr sbrnd-sbang sslty scalc
14	13,111.0	2.72	4.7	tbfa	66.0	0.0	40	0		Ss opaq-tn-brn vf-f-sc mgr sbrnd-ang sslty scalc sty
15	13,137.0	2.67	5.8	0.08	72.0	0.0	22	0		Ss opaq-brn-gy vf-mgr rnd-ang mod-sslty scalc sc slty lam
16	13,216.0	2.67	8.9	0.03	43.6	0.0	12	0		Ss opaq-tn vf-f-sc crsgr rnd-sbang sslty scalc

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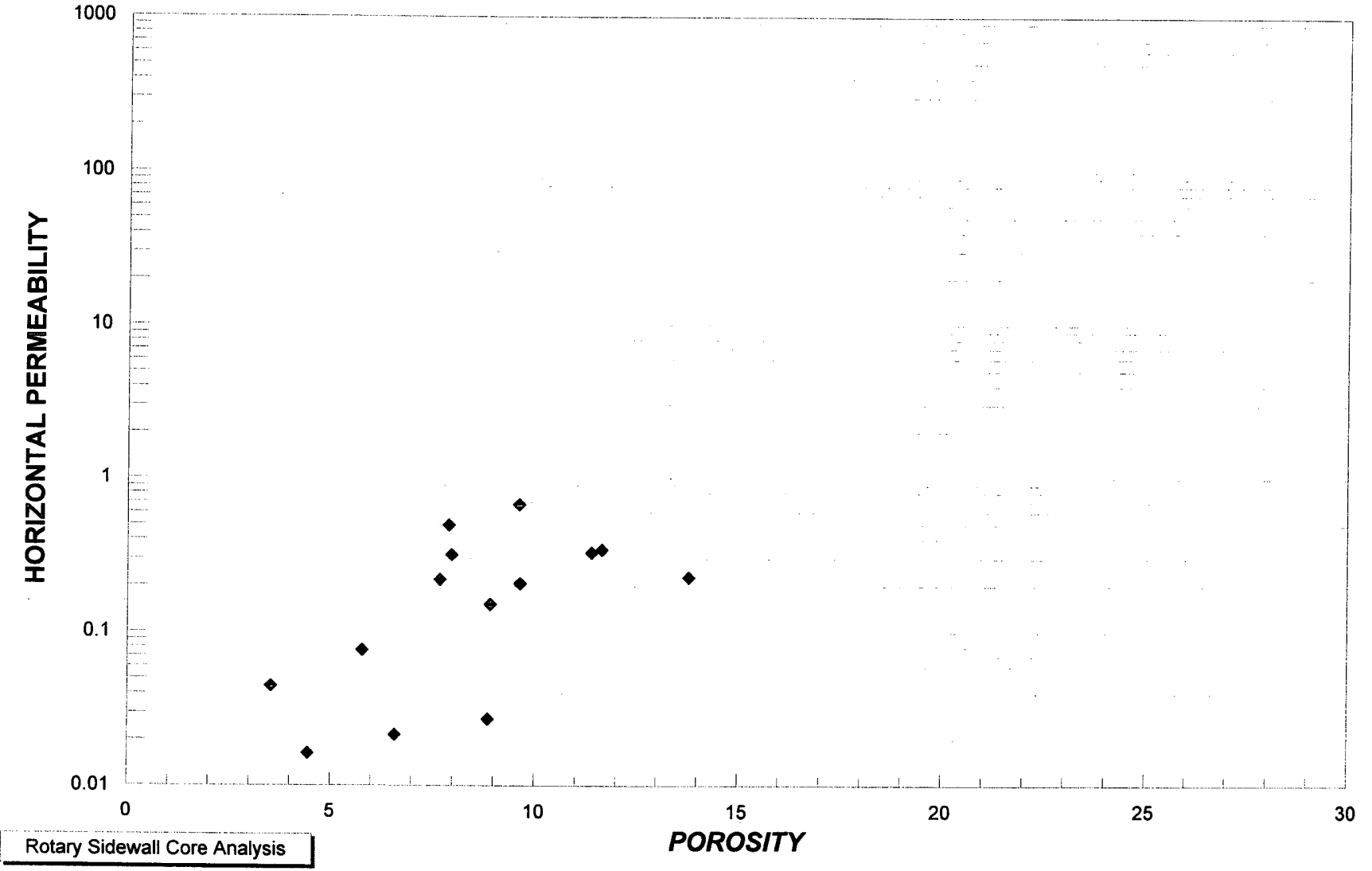
PATTERSON PETROLEUM LP
BOUGAINVILLEA '33' STATE # 1



Rotary Sidewall Core Analysis

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Core Analysis

PATTERSON PETROLEUM LP
BOUGAINVILLEA '33' STATE # 1
02/01/2006

QUALITY CONTROL RERUN DATA

Sample No.	GRAIN DENSITY original	GRAIN DENSITY reruns	POROSITY original	POROSITY reruns	*kstandard* Test Sample	PERMEABILITY original	PERMEABILITY reruns
1	2.689	2.690	9.61	9.64	**2.613**	0.671	0.665
4	2.643	2.644	7.89	7.93			
7	2.656	2.657	11.39	11.42		0.328	0.326
10	2.904	2.905	3.54	3.56			
13	2.686	2.684	4.45	4.40		0.016	0.016
16	2.667	2.666	8.87	8.81	**2.616**	0.027	0.027

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LITHOLOGICAL ABBREVIATIONS

Anhydrite (-ic)	anhy, anhyd
Anhydrite inclusion	A/I
Bentonite (-ic)	bent
Black (-ish)	blk, blksh
Bleeding Oil	B/O
Brecciated	brec
Bright	brt
Brittle	brit
Broken	brkn
Brown	brn
Buff	bf
Calcite (-ic)	calc, calctc
Calcareous	calc
Carbonaceous	carb
Cement	cmt
Chalk (-y)	chk, chky
Chert	cht
Clay	cl
Clear	clr
Coal	c
Coarse	crs
Conglemerate	cgl
Consolidated	consol
Contaminated	contam
Crinoid (-al)	crin, crinal
Cross-bedded	x-bd
Crystal (-line)	Xl, xln
Dark	dk
Dense	dns
Diameter	dia
Dolomite (ic)	dol, dolm
Dull	dl
Faint	fnt
Fair	fr
Filled	fd
Fine (-ly)	f, fnly
Fluorescence	flu
Fossil (-iferous)	foss
Fracture	frac
Fragments	frag
Friable	fri
Fusulinid	fus
Gilsonite	gil
Gold	gld
Good	gd
Grain (-s)	gr
Granular	gran
Gray	gy
Green	grn
Gypsum	gyp
Hair line(frac)	hl
Halite	hal
Inclusion	incl
Laminations (ated)	lam
Large	lrg
Light	lt
Limestone	ls
Limey	lmy
Lithology	lith
Medium	m
Mineral Fluorescence	mf
Moderate	mod
Mudcake	m/c
No Show	N/S
Oolite (-itic)	ool
Pale	pl
Permeability	Perm, K
Pin-Point Porosity	ppp
Poor	pr
Pyrite	pyr
Quartz (-itic)	qtz
Red (ish)	rd, rdsh
Round	rnd
Residual Oil	So
Residual Water	Sw
Sample	Spl
Sandstone	Ss
Sandy	sdy
Scattered	sc
Shaley	shy
Shale	sh
Shale parting	s/p
Silt (-y)	slt, slty
Siliceous	sil
Slight (-ly)	sli, s
Small	sml
Spotted (-y)	sp
Stringer	strgr
Stylolite (-itic)	sty, styl
Sucrosic	suc
Sulphur	su
Tan	tn
Too broken (for Analysis)	tbfa
Thin	thn
Trace	Tr
Very	v
Vertical	vert, vt
Vug (-gy)	vug
Well	wl
White	wht
Yellow	yl

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