HALLWOOD PETROLEUM, INC.

BASS # 4

LEA COUNTY, NEW MEXICO

ROTARY SIDEWALL CORE ANALYSIS

6-30-20s-33e 1700/N & 1815/E

30-025-34383

RESERVOIRS, INC.

CONVENTIONAL AND SPECIAL CORE ANALYSIS
GAS & LIQUID ANALYSIS • OIL FINGERPRINTING
GEOLOGICAL ANALYSIS • CLASTICS/CARBONATES
SINGLE WELL/FIELD/REGIONAL STUDIES
WELL COMPLETION/STIMULATION STUDIES
ENVIRONMENTAL SERVICES

2057 COMMERCE DRIVE MIDLAND, TEXAS 79703 (915) 699-2468 FAX (915) 699-2464

June 25, 1998

Mr. Kevin E. O'Connell
Hallwood Petroleum, Inc.
4582 South Ulster Street Parkway
Suite 1700
Denver, Colorado 80237

Re: Bass # 4
Lea County, New Mexico

Dear Mr. O'Connell:

Our data for the above referenced well are enclosed on the following pages in tabular and graphical form for correlation convenience.

We will retain our data and results in our files for future reference. We hope these results will be useful in evaluating your property. If you have any questions regarding our data or procedures, please do not hesitate to contact us.

We appreciate the opportunity of serving your core analysis needs and look forward to working with you and Hallwood Petroleum, Inc. again.

Thank you.

Sincerely,

David K. Floyd
Core Analysis Manager
Geologist

PROCEDURES

PROCEDURES

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Re: Bass # 4
Lea County, New Mexico

* The rotary sidewall cores were transported to Midland, Texas from the wellsite.

* A gas sample was injected into a Total Hydrocarbon Analyzer from each Rotary Sidewall Core container for hydrocarbon detection.

* Ultraviolet and natural light photographs were taken for a permanent record.

* Water and oil saturations were determined by the Dean Stark method.

* Porosities were determined using Boyle's Law Principle.

* Permeability to air was measured using the Hassler Sleeve Permeameter.

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2 cc Hallwood Petroleum, Inc.
4582 South Ulster Street Parkway
Suite 1700
Denver, Colorado 80237
Attn: Mr. Kevin E. O'Connell

2 cc Bass Enterprises Production Company
P. O. Box 2760
Midland, Texas 79702
Attn: Mr. John Smitherman

1 cc Bass Enterprises Production Company
201 Main Street
Suite 3100
Fort Worth, Texas 76102
Attn: Mr. Mike Stephenson

2 cc Texaco E & P, Inc.
P. O. Box 2100
Denver, Colorado 80201
Attn: Mr. Charles Bahr

2 cc Southwest Royalties, Inc.
P. O. Box 11390
Midland, Texas 79702
Attn: Marty Bloodworth

1 cc Beren Corporation
970 Fourth Financial Center
Wichita, Kansas 67202

1 cc Elliott-Hall Company
P. O. Box 1231
Ogden, Utah 88402-1231

1 cc Fina Oil & Chemical Co.
Development Division
14950 Heathrow Forest Parkway
Suite 300
Houston, Texas 77032
Attn: Dung Vu

HALLWOOD PETROLEUM, INC.

Well: BASS # 4
County: LEA COUNTY, NEW MEXICO
ROTARY SIDEWALL CORE ANALYSIS

Date: 06-06-98
Job No.: RMC593
Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH	Kplug (mD)	POR %	GRAIN DENS	% FLUIDS H2O	% FLUIDS OIL	GAS (units)	OIL FLOR	LITHOLOGY
1	6481	0.25	10.2	2.68	76.4	0.0	0	0	Ss ltgy vfgr sl slty intgr por
2	6499	2.43	14.4	2.66	83.5	0.0	2	0	Ss ltgy vfgr sl slty intgr por
3	6511	0.05	7.3	2.70	81.5	0.0	2	0	Ss ltgy vfgr sl slty tr intgr por
4	6597	0.17	14.1	2.68	53.4	12.2	220	50	Ss tangy-ltgy vfgr sl slty intgr por
5	6621	0.31	16.4	2.67	33.8	31.1	320	100	Ss tangy-ltgy vfgr sl slty intgr por
6	6687	0.02	9.7	2.65	78.4	0.0	12	0	Ss gy-dk gy vfgr slty lam sl shly intgr por
7	6709	0.11	10.3	2.69	63.1	12.3	4	50D	Ss ltgy-gytan vfgr sl slty intgr por
8	6727	6.63	16.5	2.65	59.4	13.5	200	100	Ss ltgy-gytan vfgr sl slty intgr por
9	6920	0.58	14.2	2.66	59.4	18.7	88	100D	Ss ltgy vfgr sl slty intgr por
10	6933	1.69	15.0	2.66	59.7	14.3	35	100D	Ss ltgy-gytan vfgr sl slty intgr por
11	6944	1.07	15.2	2.66	63.2	12.1	45	100D	Ss ltgy vfgr sl slty intgr por
12	6963	0.01	9.3	2.68	75.1	1.8	8	TR	Ss ltgy vfgr slty/shly lam tr intgr por
13	6967	5.08	18.8	2.64	51.1	11.0	270	100D	Ss tangy-ltgy vfgr sl slty intgr por
14	6974	0.02	10.5	2.65	80.6	0.0	7	0	Ss gy-dk gy vfgr slty/shly lam intgr por
15	7376	0.90	15.7	2.66	88.3	0.0	1	0	Ss ltgy-gytan vfgr sl slty intgr por
16	7400	0.36	15.5	2.66	90.7	0.0	1	0	Ss ltgy vfgr sl slty intgr por
17	7625	4.66	14.0	2.66	86.2	0.0	4	0	Ss ltgy-gytan vfgr sl slty intgr por
18	7637	1.08	13.9	2.66	85.2	0.0	4	0	Ss ltgy-gytan vfgr sl slty intgr por
19	7673	4.77	18.0	2.65	45.7	12.7	340	100	Ss ltgy vfgr sl slty intgr por
20	7685	0.04	10.8	2.68	73.2	0.0	14	0	Ss ltgy vfgr slty lam intgr por
21	7909	0.21	13.2	2.68	74.3	2.1	7	TR	Ss tan-gytan vfgr slty lam intgr por

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Date: 06-06-98

Job No.: RMC593

Analyst: DAVID FLOYD

SAMPLE NO.	DEPTH	Kplug (mD)	POR %	GRAIN DENS	% FLUIDS H2O	% FLUIDS OIL	GAS (units)	OIL FLOR	LITHOLOGY
22	7919	0.43	14.2	2.66	47.7	12.3	370	90	Ss ltgy-tangy vfgr slty lam intgr por
23	7975	8.45	16.1	2.67	82.8	0.0	2	0	Ss ltgy-gytan vfgr sl slty intgr por
24	7979	0.09	11.8	2.67	65.5	2.0	85	TR	Ss ltgy vfgr slty lam intgr por
25	8073	0.03	9.5	2.68	39.5	22.8	340	70	Ss ltgy vfgr slty lam tr intgr por
26	8087	0.09	12.0	2.67	31.4	15.0	250	80D	Ss ltgy vfgr slty lam intgr por
27	8100	0.02	9.6	2.66	32.2	18.4	300	60D	Ss gy-ltgy vfgr slty lam tr intgr por
28	8107	0.02	8.8	2.66	32.5	19.1	295	60D	Ss gy-dk gy vfgr slty lam tr intgr por

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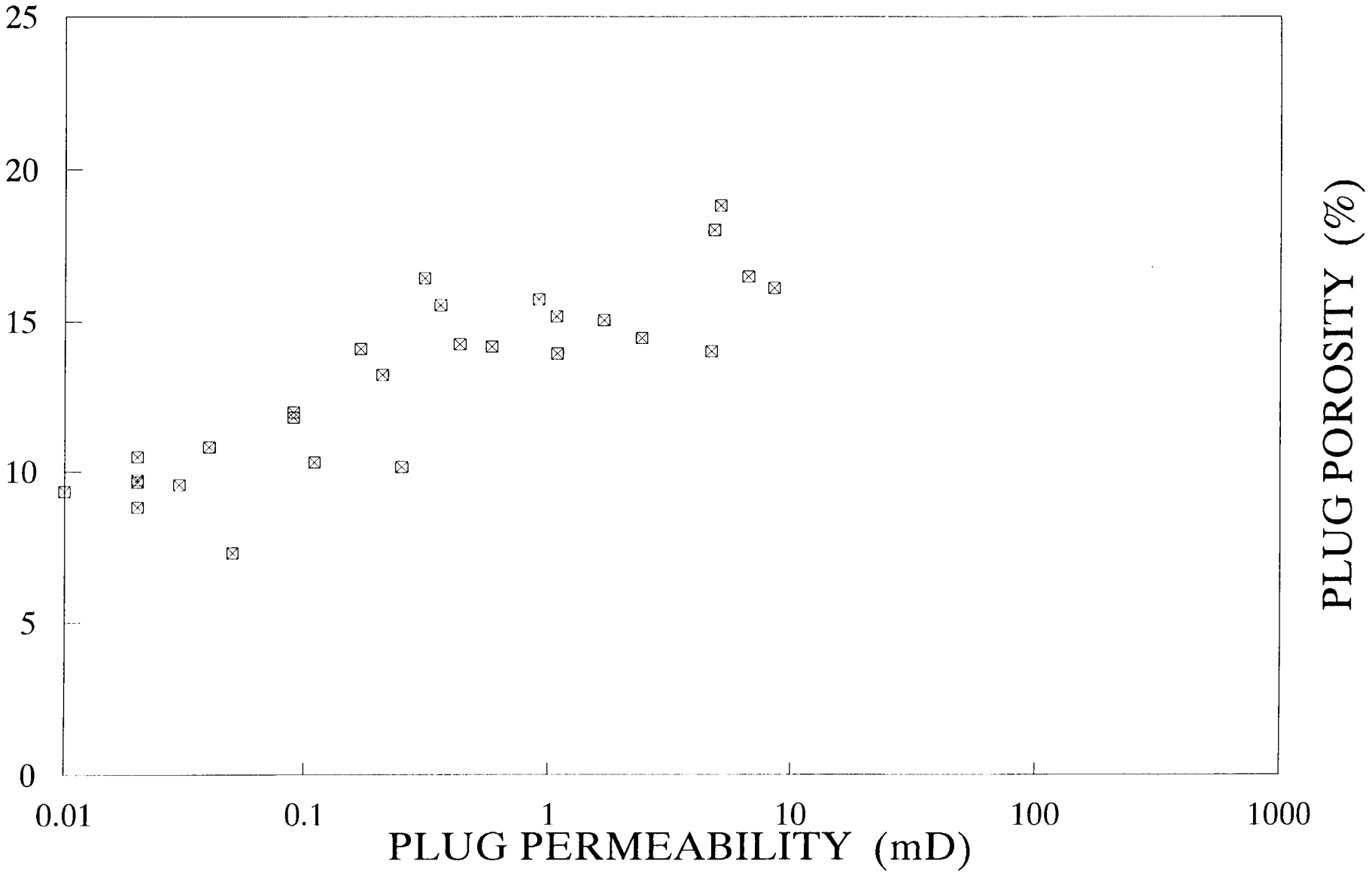

NOMENCLATURE

a/a	As Above
abnt	Abundant
ang	Angular
anhy	Anhydrite(ic)
aren	Arenaceous
arg	Argillaceous
bcm	Becoming
bit	Bitumenious
blk	Black
blky	Blocky
bn	Brown
bl	Blue
bri	Bright
buf	Buff
bur	Burrowed
calc	Calcareous
carb	Carbonaceous
cmt	Cement
chlky	Chalky
cht	Chert(y)
cly	Clay(ey)
cln	Clean
clr	Clear
c	coarse
conch	Chonchoidial
cons	Consolidated
crp	Crypto
xl(n)	Crystal(line)
dk	Dark
dd	Dead
dns	Dense
dia	Diameter
dism	Disseminated
dol	Dolomite(ic)
erthy	Earthy
embd	Embedded
evap	Evaporite
fnt	Faint
fr	Fair
f	Fine
fis	Fissle
flu	Fluorescence
fos	Fossil(iferous)
frac	Fracture
fri	Friable
glau	Glauconite
g	Good
grdg	Grading
gr	Grain
gy	Gray(ish)
gn	Green
gyp	Gypsum
gld	Gold
hal	Halite
hd	Hard
hvy	Heavy
hz	Horizontal
ip	In Part
incl	Inclusion
incr	Increasing
intbd	Interbedded
intxl	Intercrystalline
intgr	Intergranular
lam	Laminated
lg	Large
lt	Light(er)
lig	Lignite
ls	Limestone
lse	Loose
m	Medium
mic	Mica
micxl	Microcrystalline
mlky	Milky
mnrl	Mineral
mod	Moderate
mott	Mottled
mdst	Mudstone
n/s	No Show
nvp	No Visible Porosity
nod	Nodules
occ	Occasional
od	Odor

O	Oil
ool	Oolitic
opq	Opaque
orng	Orange
ptg	Parting
plty	Platey
p	Poor
por	Porosity
pos	Possible
ppp	Pin Point Porosity
pred	Predominant(ly)
pyr	Pyrite
qtz	Quartz
rr	Rare(ly)
rexl	Recrystalized
rd	Red
res	Residual
rnd	Round(ed)
ROP	Rate of Penetration
sdy	Sand(y)
ss	Sandstone
sat	Saturated
sct	Scattered
sh	Shale
shly	Shaley
sil	Silica(iceous)
slty	Silty
sltst	Siltstone
sl	Slight(ly)
srt	Sorted(ing)
sb	Sub
suc	Sucrosic
S	Sulfur(ous)
tex	Texture
tr	Trace
transl	Translucent
Transp	Transparent
trip	Tripolitic
uncons	Unconsolidated
up	Upper
vert	Vertical
vis	Visible
v	Very
vit	Vitreous
vug	Vug(gy)
wxy	Waxey
w/	With
w/o	With Out
wh	White
wk	Weak
yel	Yellow
zn	Zone