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GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

OPERATOR Shakespeare Oil Co.

LEASE Frey #2-9

FIELD Wildcat

LOCATION 2228' FNL, 1779' FEL

SEC. 9 TWP. 13s RGE. 32w

COUNTY Logan STATE Kansas

ELEVATION

KB 3009'

DF

GL 2999'

Measurements Are All From KB

CONTRACTOR Murfin Drilling Rig #14

COMM: COMP: 10-23-07

RTD 4689 LOG TD

SAMPLES SAVED FROM 3650' TO TD

DRILLING TIME KEPT FROM 3650' TO TD

SAMPLES EXAMINED FROM 3650' TO TD

GEOLOGICAL SUPERVISION FROM 3800' TO TD

MUD UP 3600' TYPE MUD Chemical

API # 15-109-20787

CASING RECORD

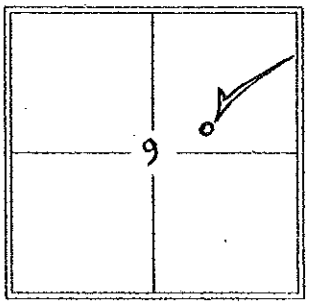
SURFACE 8 5/8" @ 225'

PRODUCTION 5 1/2" @

WELL LOG SURVEYS

Dual Induction
Nuetron Density
MicroLog
Sonic

FORMATION	LOG TOP	LOG DATUM	SAMPLE TOP	SAMPLE DATUM	STRUCT. COMP.
Anhydrite	2490	+519	NA		
B/Anhydrite	2512	+497	NA		
Topeka	3796	-787	3796	-787	
Heebner	3956	-947	3957	-948	
Lansing	3999	-990	3999	-990	
Muncie Creek	4145	-1136	4155	-1136	
Stark	4227	-1218	4227	-1218	
Fort Scott	4482	-1472	4481	-1472	
Cherokee Sh.	4512	-1503	4512	-1503	
Mississippi	4612	-1603	4612	-1603	



REFERENCE WELL FOR STRUCTURAL COMPARISON

DRILL STEM TESTS

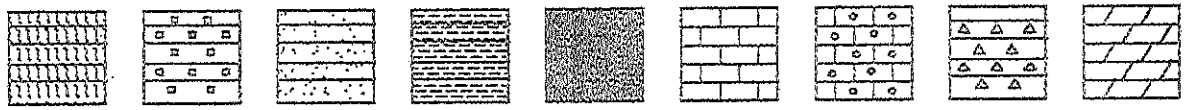
No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IBH-FBH	RECOVERY

REMARKS AND RECOMMENDATIONS Due to positive drill stem tests, it was decided to set production casing to further test the well.

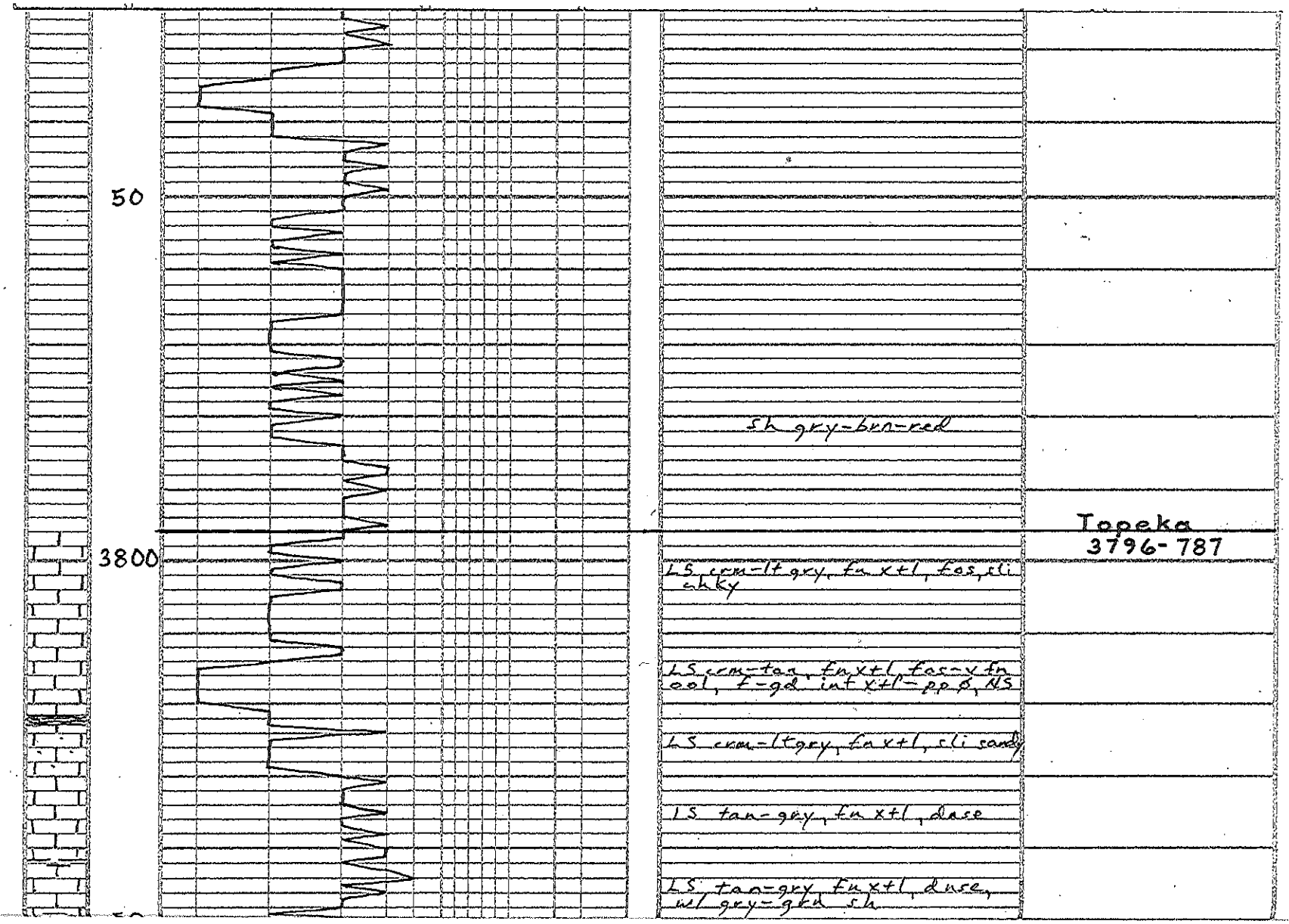
Tim Priest
10-23-07

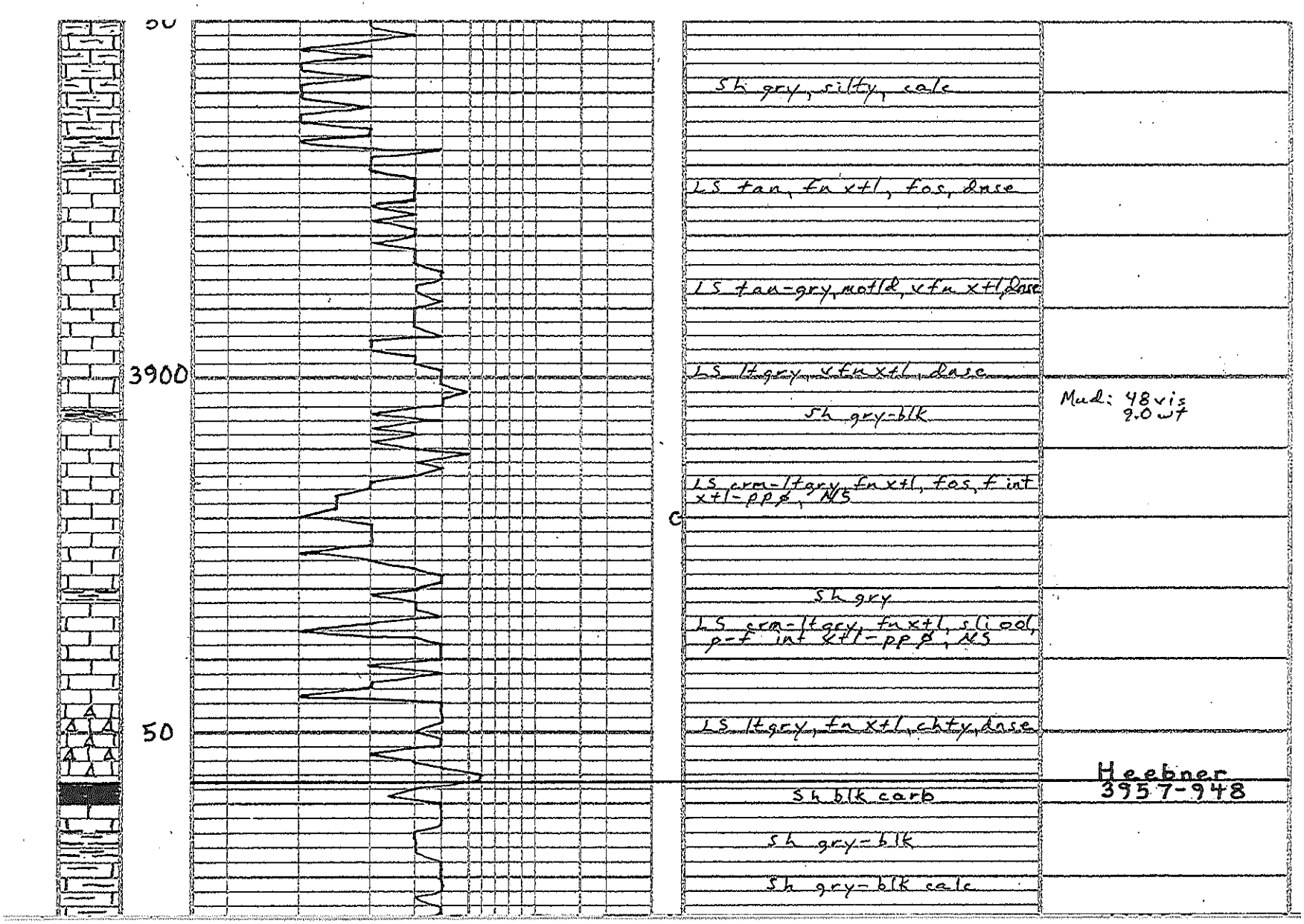
PRIEST - 07

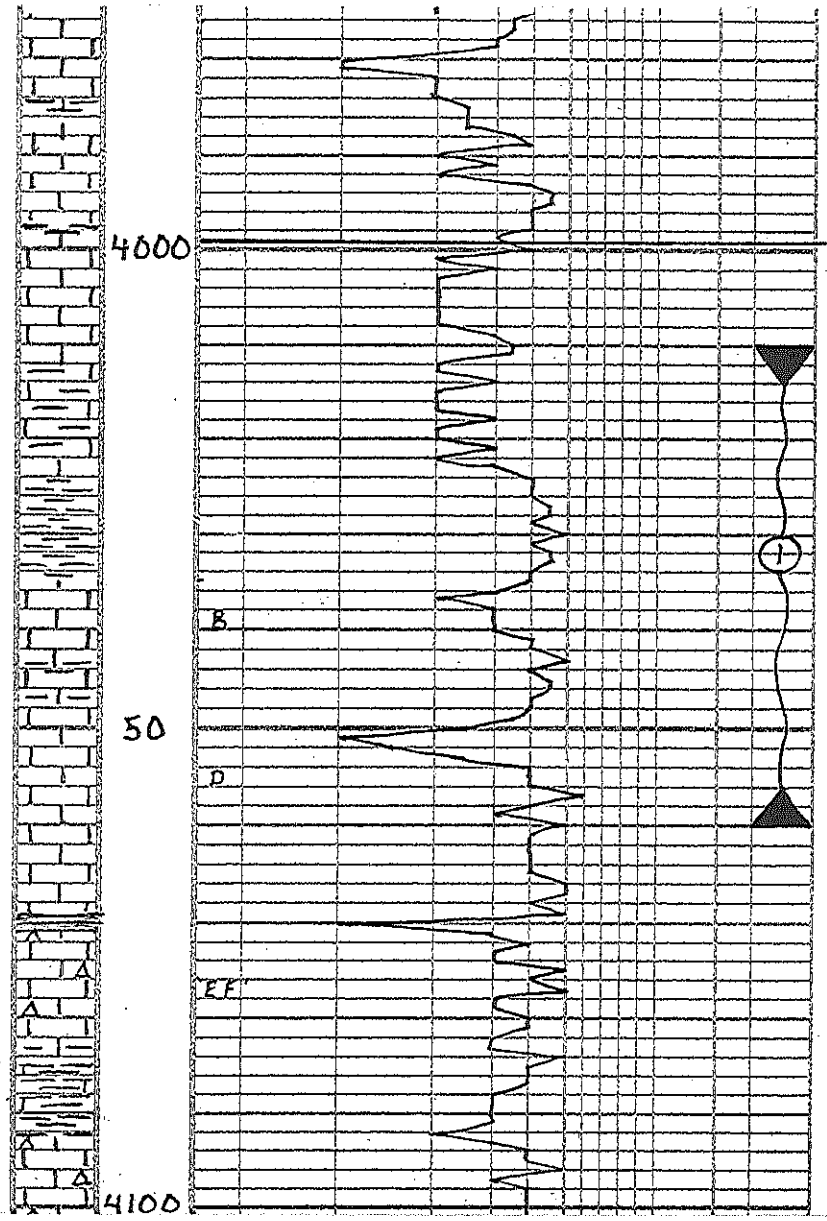
LEGEND



LITHOLOGY	DEPTH	DRILLING TIME (Logarithmic Scale) .5 1 5 10 15 20 30	SAMPLE DESCRIPTIONS	REMARKS
	3700			


50
3800
Sh gry-brn-red
Topeka
3796-787
LS crm-lt gry, fn xtl, fos, sli chky
LS crm-tan, fn xtl fos-v fn ool, f-gd int xtl-pp ø, NS
LS crm-lt gry, fn xtl, sli sandy
LS tan-gry, fn xtl, dnse
LS tan-gry fn xtl, dnse, w/ gry-grn sh


50
3900
50
Sh gry, silty, calc
LS tan, fn xtl, fos, dnse
LS tan-gry, motld, xfn xtl, dnse
LS ltgry, xfn xtl, dnse
Sh gry-blk
Mud: 48 vis
9.0 wt
LS crm-ltgry, fn xtl, fos, f int xtl-pp ø, NS
Sh gry
LS crm-ltgry, fn xtl, sli ool, p-f int xtl-pp ø, NS
LS ltgry, fn xtl, chty, dnse
Heebner
3957-948
Sh blk carb
Sh gry-blk
Sh gry-blk calc



LS crm-lt gry, fn xtl, fos-sli ool, f int xtl-pp p, NS

LS crm-tan, fn xtl, dsc

Sh gry-grn

Lansing
3999-990

LS crm-tan, fn xtl, fos-sli ool, p int xtl-pp p, NS

Sh gry-grn, calc

Mud: 50 vis
9.0 wt

Sh gry-brn-grn

DST #1 4010-4060
(30-30-45-60)
Rec: 700' MCW w/spts of Oil
FPs: 20-238#/232-347#
SIPs: 1189#/1201#
HSPs: 1965#/1908#
BHT: 117°

LS crm, fn xtl, fos, slichly p-f pp-vug p, spt'd dk stn, SSFO, v sli odor, dull fluor

LS crm-lt gry, fn xtl, fos p-f int xtl-pp p, spt'd dk stn, SSFO, v sli odor, dull fluor

Pipe strap @ 4060' was 1.53' short to board .04° Dev

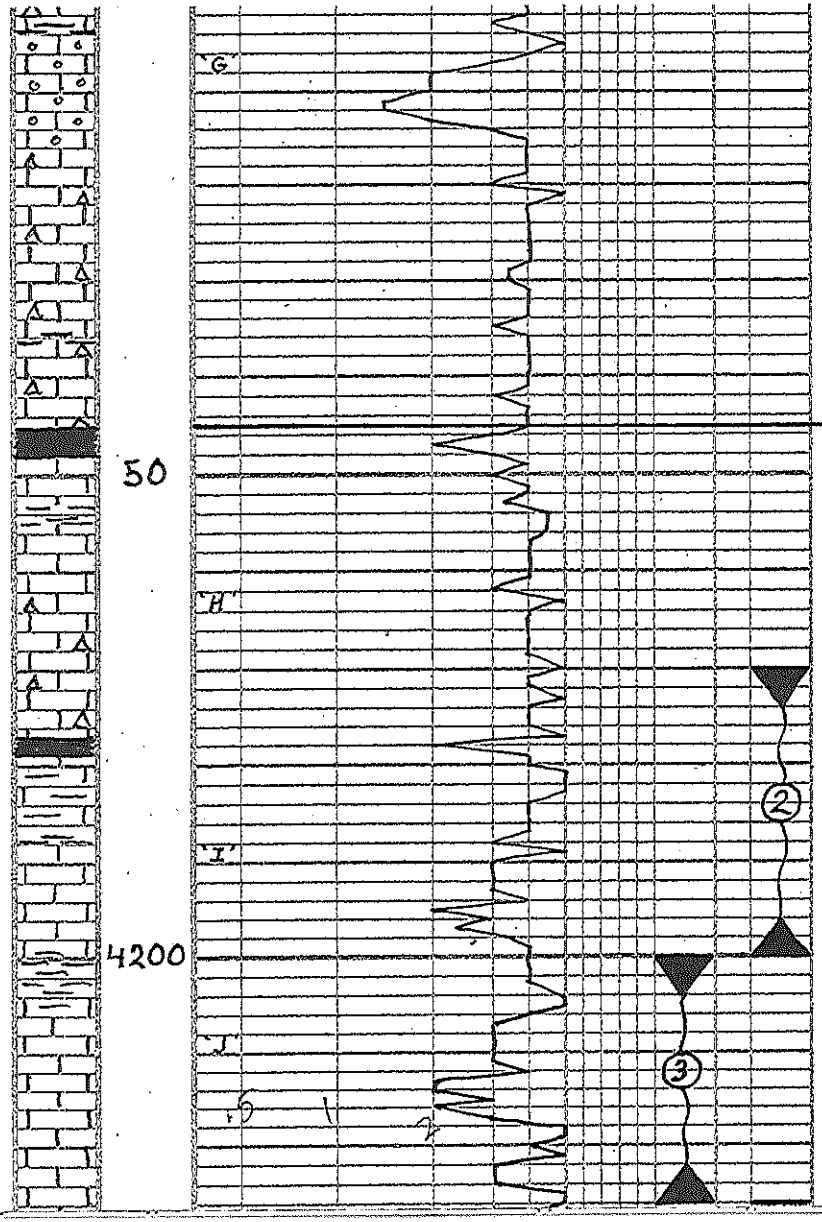
LS tan-gry, fn xtl, dsc

Sh gry-blk

LS crm-lt gry, fn xtl, slichty

Sh gry-grn

LS crm-tan, vfn xtl, chty



LS crm-wh, fn xtl, ool, slichky f oos p, ss

LS crm-lt gry, mic xtl, sli fos, chty

AA

Muncie Creek
4145-1136

Sh blk carb

LS crm-gry motld, fn xtl, p int xtl p, sme dk gil stn, NSFO

LS crm-lt gry, mic xtl, chty

DST#2 4170-4200
(30-45-60-90)
Rec: 425' GIP
140' GMCO (70% O)
185' GOCM (5% O)
FPs: 19-80#/85-146#
SIPs: 1221#/1217#
HSPs: 2069#/2021#
BHT: 118°

Sh blk

Sh gry-grn-red, calc

LS tan, fn xtl, sli fos, f int xtl-pp p, lt sptd-sat stn, SSFO & GB, sli odor, f fluor

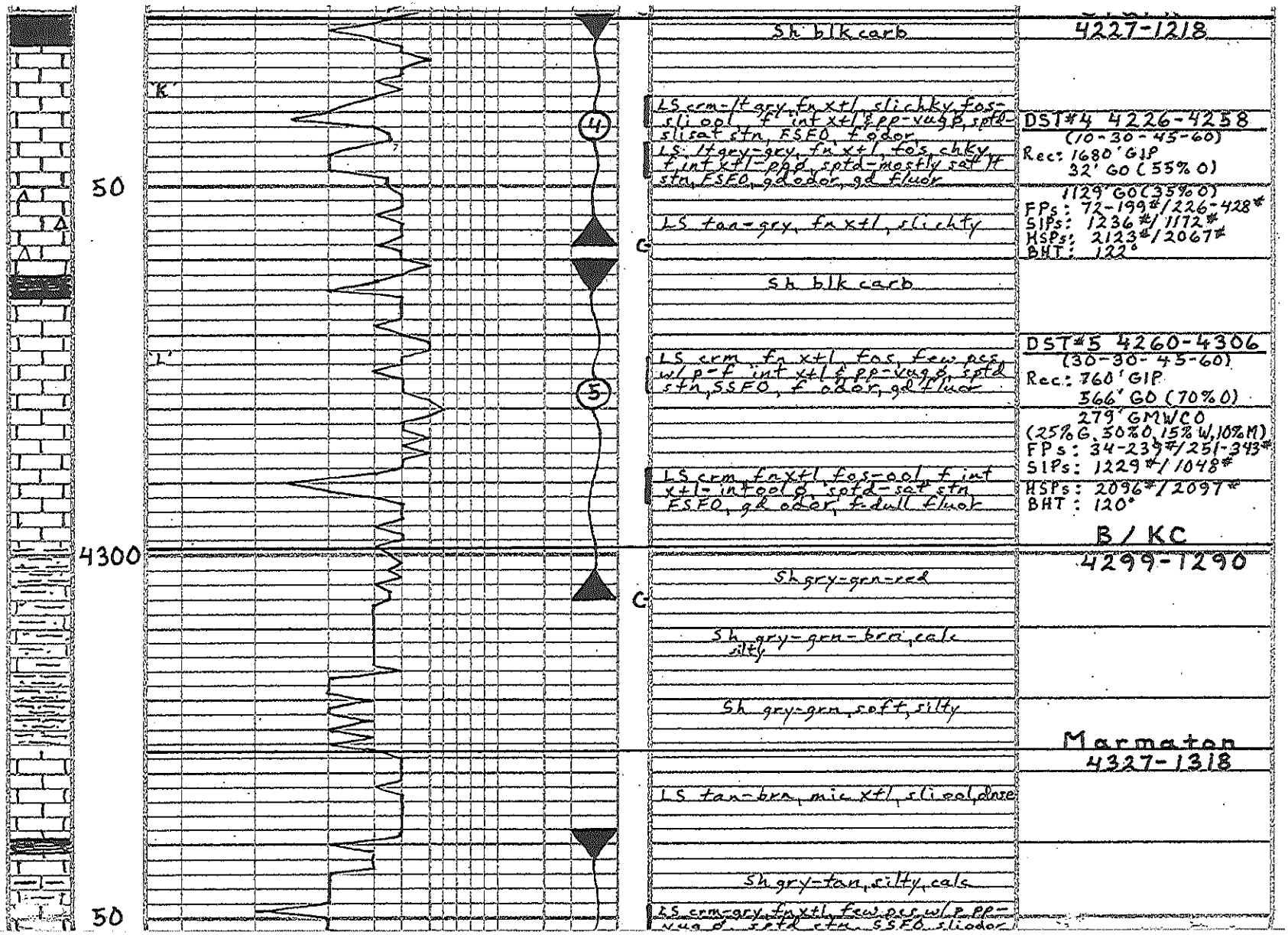
LS crm, fn xtl, sli fos, p-f pp-vug p, sptd stn, SSFO & GB, sli odor, f dull fluor

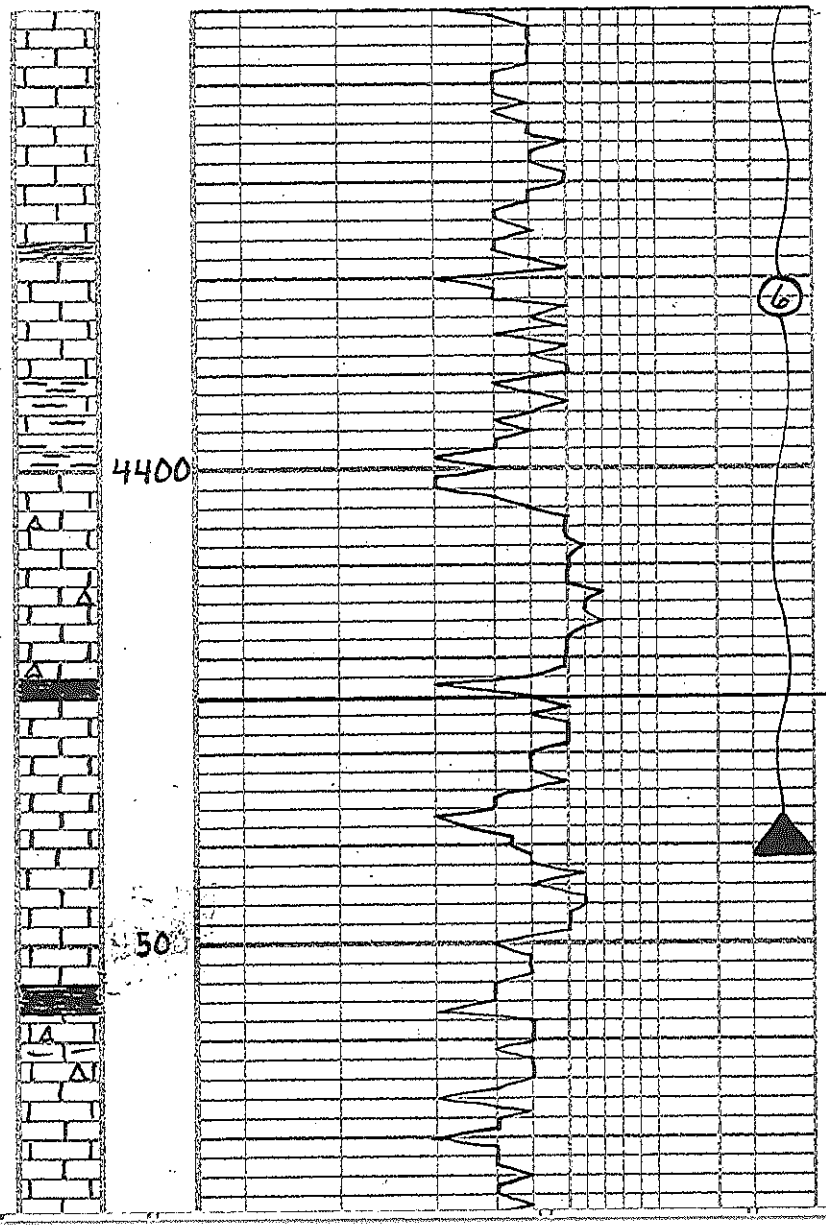
DST#3 4200-4226
(30-30-45-60)
Rec: 140' GIP
375' GOCM (12% O)
45' GOCM (3% O)
370' GMCW w/scum oil (80% Wtr)
FPs: 290-321#/324-384#
SIPs: 1281#/1277#
BHT: 122°

LS crm, fn xtl, sli fos, chky, p-f int xtl-pp p, sptd-sat stn, FSFO w/GB, strong odor, f dull-bright fluor

LS crm-lt gry, fn xtl, fos-ool, f int xtl-int ool p, sptd-sat stn, SFO, f odor

Stark


Sh blk carb
4227-1218
'K'
LS crm-lt gry, fn xtl, slichky, fos-sli ool, f int xtl & pp-vug p, sptd-sli sat stn, FSFO, f odor
DST#4 4226-4258
(10-30-45-60)
Rec: 1680' GIP
32' GO (55% O)
LS lt gry-gry, fn xtl, fos, chky, f int xtl-pp p, sptd-mostly sat & stn, FSFO, gd odor, gd fluor
1129' GO (35% O)
FPs: 72-199#/226-428#
SIPs: 1236#/1172#
HSPs: 2123#/2067#
BHT: 122°
50
LS tan-gry, fn xtl, slichty
Sh blk carb
DST#5 4260-4306
(30-30-45-60)
Rec: 760' GIP
366' GO (70% O)
279' GMWCO
(25% G, 50% O, 15% W, 10% M)
FPs: 34-239#/251-343#
SIPs: 1229#/1048#
HSPs: 2096#/2097#
BHT: 120°
'L'
LS crm, fn xtl, fos, few pcs w/ p-f int xtl & pp-vug p, sptd stn, SSFO, f odor, gd fluor
LS crm, fn xtl, fos-ool, f int xtl-int ool p, sptd-sat stn, FSFO, gd odor, f-dull fluor
B/KC
4300
4299-1290
Sh gry-grn-red
Sh gry-grn-brn, calc silty
Sh gry-grn, soft, silty
Marmaton
4327-1318
LS tan-brn, mic xtl, sli sol, dnse
Sh gry-tan, silty, calc
50
LS crm-gry, fn xtl, few pcs w/ p pp-vug p, sptd stn, SSFO, sli odor



LS gry, fn xtl, fos, chky, few pcs w/ p pp-vug ϕ, sptd stn, SSFO, f odor

LS crm-gry, fn xtl, chky, dnse

Sh blk

LS crm-ltgry, fn xtl, fos, few pcs w/ p-f int xtl-pp ϕ, sptd stn, SSFO, f odor

Sh gry-gra, calc

LS tan, fn xtl, fos, p-f int xtl & pp-vug ϕ, sptd stn, SFO, f odor

LS crm-gry, vfn xtl, chky, chty

Sh blk carb

LS crm-tan, fn xtl, sli fos, p-f int xtl & pp-vug ϕ, sptd stn, FSFO, f odor, v sli fluor

LS tan-brn, mic xtl, dnse

Sh blk carb

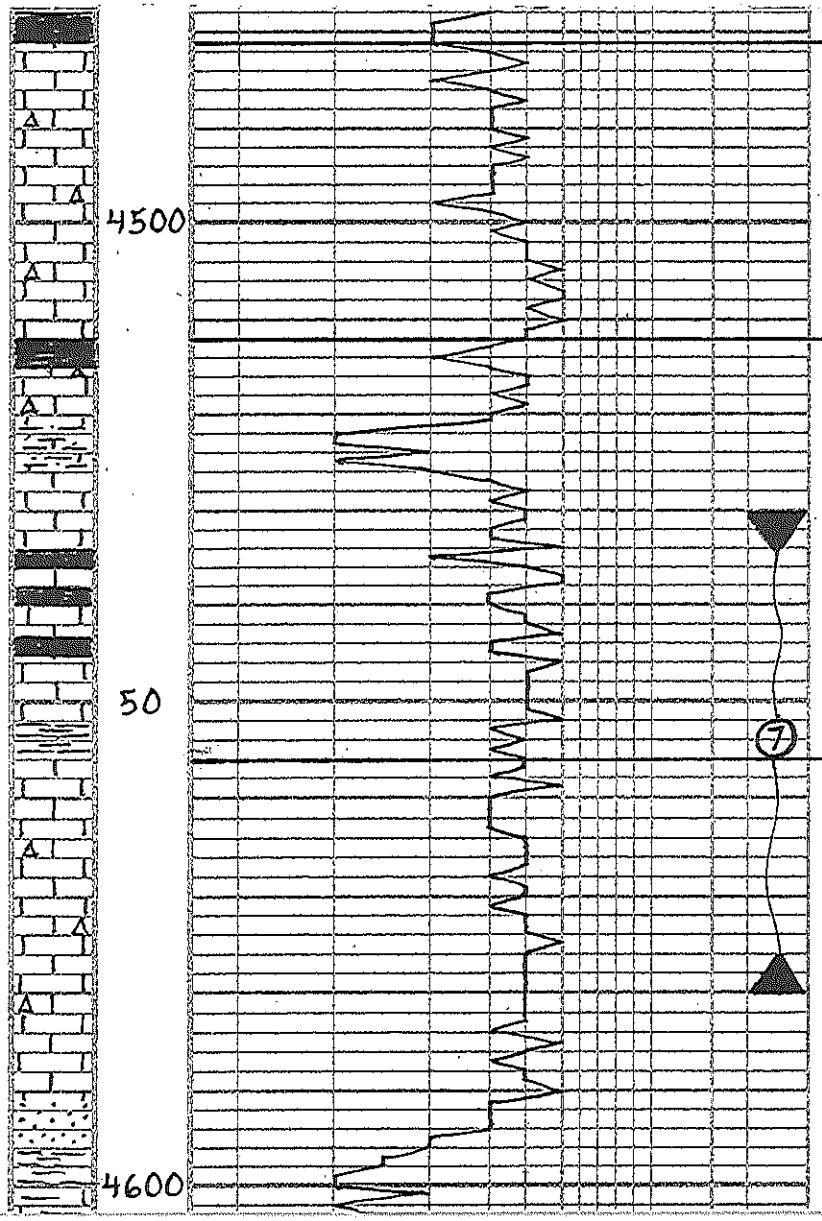
LS tan-gry, vfn xtl, chty

Sh gry, calc

LS tan-brn, mic xtl, chty

Pawnee
4424-1415

DST#6 4338-4441
(30-30-45-60)
Rec: 45' GIP
235' GOCM (10%O)
90' GOCM (15%O)
FPs: 25-88#/91-147#
SIPs: 1128#/1171#
HSPs: 2207#/2164#



Sh blk carb

LS crm-tan, fn xtl, fos, dnse

LS tan-gry, mic xtl, chty

LS bea-gry, vfn xtl, dnse, slicht

Sh blk carb

LS tan-gry, fn xtl, chty

Sh gry-red-grn, silty, calc

LS tan-gry, mic xtl, dnse

LS gry, mic xtl, fos, dnse, w/ gry-blk sh

LS crm-tan, fn xtl, fos, p int xtl-ppb, sptd dead stn, NSFO

Sh gry

LS tan-gry, fn xtl, fos, p-f int xtl-ppb, sptd-sli sat dk stn, FSFO, f odor, v sli fluor

LS tan-gry, vfn xtl, fos-sli ool, sli chty

LS tan, fn xtl, fos, chty, p-f int xtl-ppb, sptd-sat stn on few pcs, SFO, gd odor

SS clear-ltgry-milky, fn grn, sub rnd, well sort, wt ll cement, tite, NS

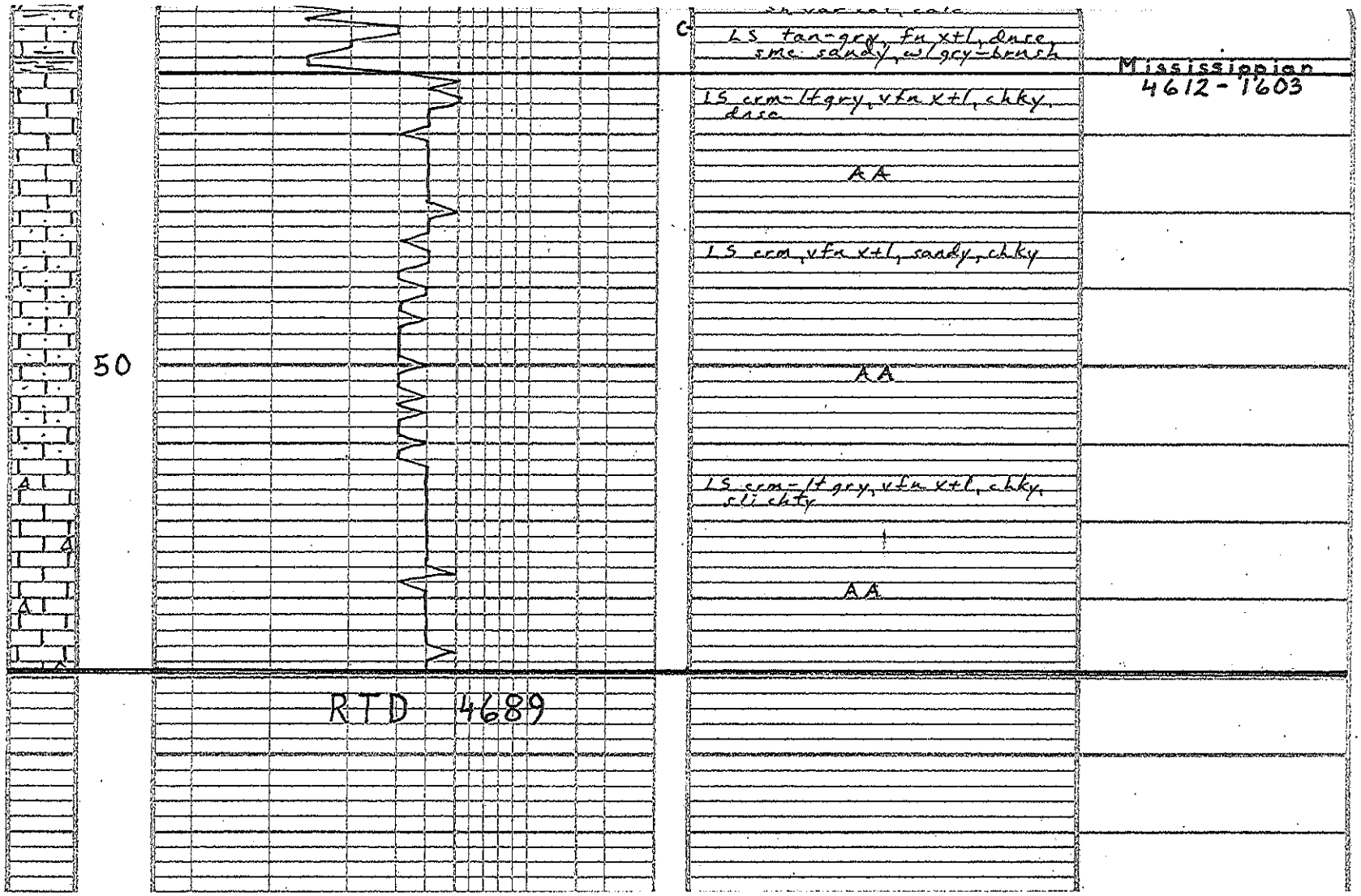
Sh var col

Fort Scott
4481-1472

Cherokee
4512-1503

Johnson Zone
4556-1547

DST#7 4530-4580
(10-30-45-60)
Rec: 200: GIP
490: GO (40%O)
528: GOWCM (10%G, 15%O, 15%W, 60%M)
FPs: 65-231#/245-423#
SIPs: 1129#/1075#
HSPs: 2314#/2294#
BHT: 126°


50
LS tan-gry, fn xtl, dnse, sme sandy, w/gry-brnsh
Mississippian
4612 - 1603
LS crm-ltgry, vfn xtl, chky, dnse
AA
LS crm, vfn xtl, sandy, chky
AA
LS crm-ltgry, vfn xtl, chky, slichty
AA
RTD 4689