

5.50" production casing run to TD 4620

DSTs

DST No.1 4452-4492(40) Conventional Fort Scott Test; Successful

Trilobite Testing Hays, KS; Kevin Webster - Tester

IF: 30 min; WSG, died in 12 min

ISI: 30 min; No return

FF: 30 min; No blow

FSI: 30 min; No return

REC: 5' drilling mud 100% mud

BHT 111F

IHP 2300 ; IFP 53-42 ; ISIP 48 ; FFP 48-41 ; FSIP 42 ; FHP 2238

DST No.2 4452-4528(76) Conventional Miss Test; Successful

Trilobite Testing Hays, KS; Kevin Webster - Tester

IF: 30 min; WSG, built to 2.5"

ISI: 30 min; No return

FF: 60 min; WSG built to 1.0"

FSI: 60 min; No return

REC: 40' [1% Oil/ 99% mud]

BHT 117F

IHP 2345 ; IFP 136-1151 ; ISIP 1207 ; FFP 281-1283 ; FSIP 1316 ; FHP 2291

DST No.3 4463-4540(77) Conventional Miss Test; Misrun

Hit bridge at 940-980. TOOH, no results

DST No.4 4463-4540(77) Straddle Miss Test; Successful run; tool plugged

Trilobite Testing Hays, KS; Kevin Webster - Tester

IF: 30 min; WSG, built to 7.0"

ISI: 30 min; No return

FF: 60 min; WSG built to 4.0"

FSI: 60 min; No return

REC: 188' [1% Oil/ 99% mud]

BHT 122F

IHP 2318 ; IFP 68-126 ; ISIP 1251 ; FFP 113-1179 ; FSIP 1295 ; FHP 2347

DST No.5 4400-4441(41) Straddle Fort Scott Test; Successful run; tool plugged

Trilobite Testing Hays, KS; Kevin Webster - Tester

IF: 15 min; WSG, built to 0.25"

ISI: 30 min; No return

FF: 15 min; WSG died in 5 min

FSI: 30 min; No return

REC: 5' [1% Oil/ 99% mud]

BHT 122F

IHP 2312 ; IFP 37-42 ; ISIP 204 ; FFP 37-55 ; FSIP 73 ; FHP 2145

DST No.6 4513-4555(4) Straddle Miss Test; Successful run;

Trilobite Testing Hays, KS; Kevin Webster - Tester

IF: 30 min; WSG, built to 22"

ISI: 30 min; No return

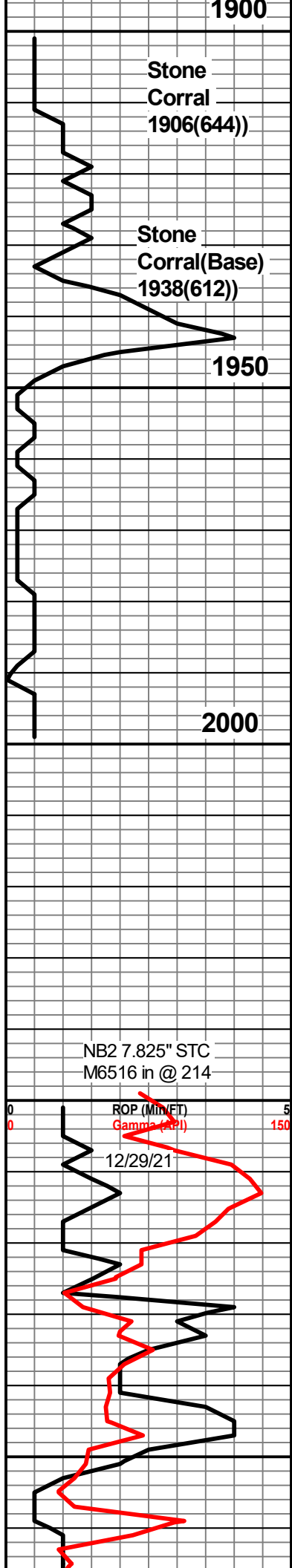
FF: 60 min; WSG built to 28"

FSI: 60 min; No return

REC: 372' Total Recovery; 124' GIP; 124 GO [15% Gas/85% Oil]; 248' OM [5% Oil/ 95% mud]

BHT 121F; 39 API Gravity

IHP 2345 ; IFP 44-106 ; ISIP 1210 ; FFP 112-177 ; FSIP 1234 ; FHP 2228



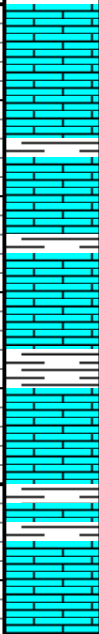
3450

3500

3550

3600

3650



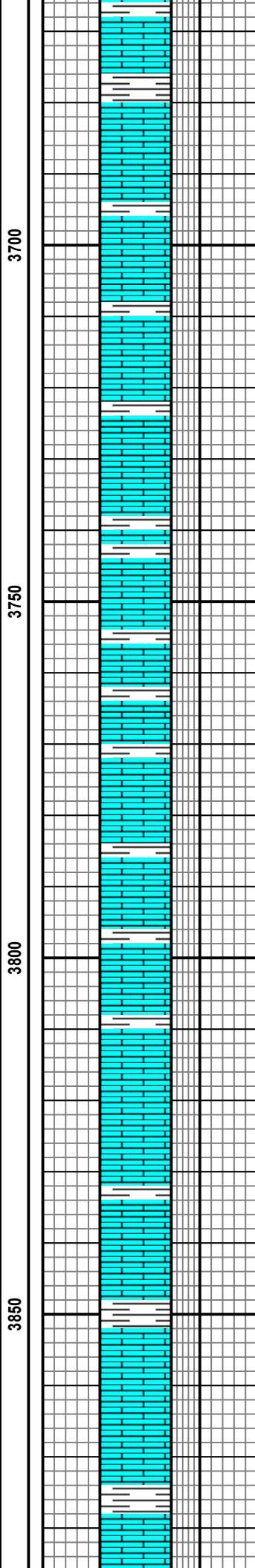
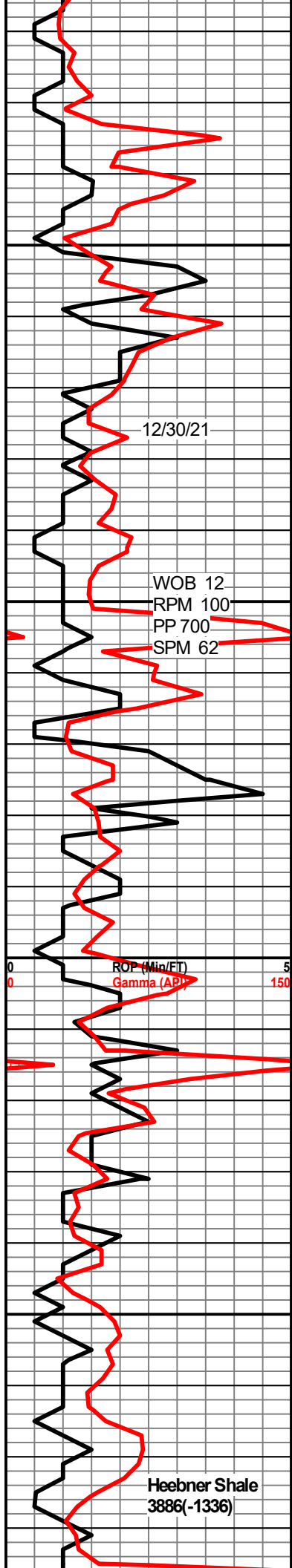
10 foot samples begin at
3600 caught by crews,
lagged by wellsite
geologist

LS tan-wh xfxl firm slfos w/chk mtrx
por-p nsfoc

SH dkgy firm blkky carb

LS aa incr wh-gy firm-fri chky slfos
chky mtrx por-p-tt nsfoc

LS tan-gy xfxl-litho fri-firm chky slsly



w/sh strgs por-p-occ tr nsfoc

SH dkgy-bk sft-firm blkv vcarb

LS tan-mgy xfxl-gran fri-firm occ fos
chky mtrx por-p nsfoc

SH aa

LS mgy-wh xfxl-gran fri-firm mfos
w/chk mtrx occ calc & sh strgs
por-fr-p nsfoc

LS ltgy-wh litho fri vchky tr fos por-p
nsfoc

SH mgy sft plty

LS aa occ sft chky nsfoc

LS ltgy xfxl-litho fri vchky sft por-p-tt
nsfoc

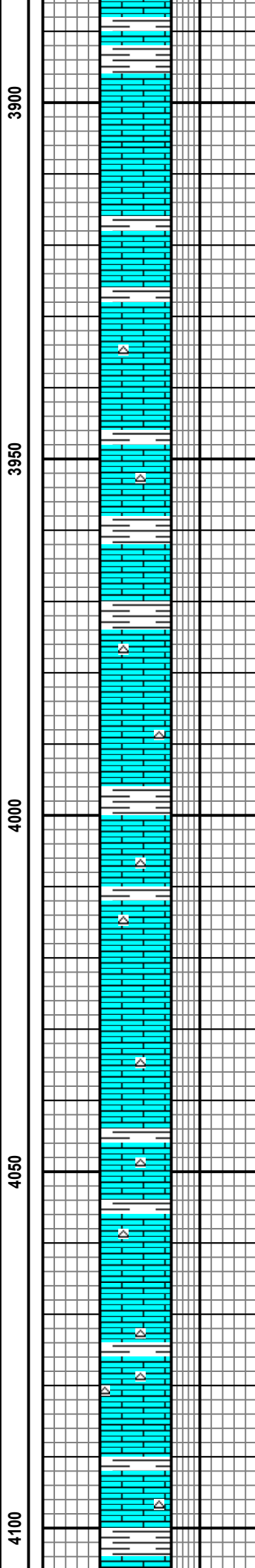
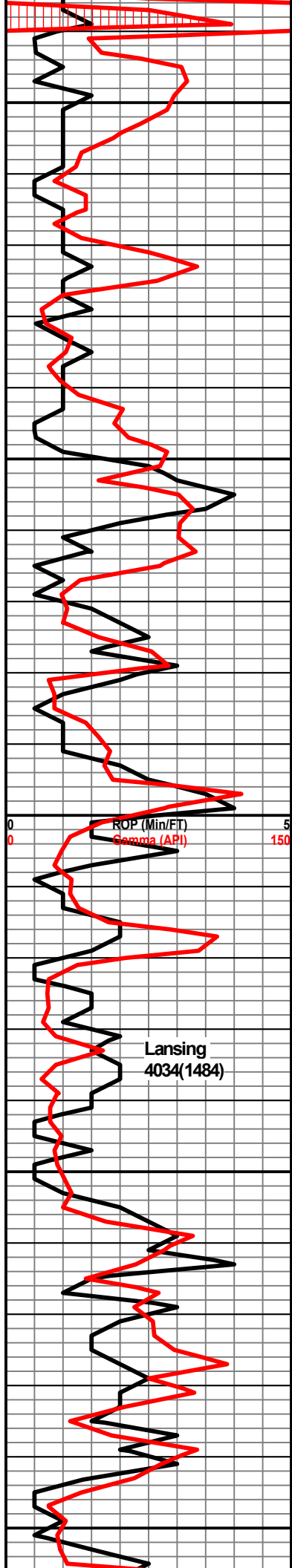
LS aa occ chky & gummy w/intbd
SH mgy LS por p nsfoc

SH m-ltgy firm plty arg

LS mot gyh-wh sft-fri occ chky por-tt
nsfoc

SH mgy plty firm slcalc

W 9.0
V 57
WL 5.8
pH 11.5
cK 1
CL 2700
Ca Nil
LCM 2#/BBL



SH m-occ dkgy sft blkly carb w/in LS aa

LS mot wh-crm fri chky occ tr fos w/calc por-p nsfoc

SH aa

LS mot gy-wh xfxl-litho fri occ sdy w/tr cht wh hd por-p-tt nsfoc

incr tr cht wh ang

SH m-dkgy sft plty carb

LS wh-incr gy xfxl firm-fri chky occ slty tr fos & cht por-p nsfoc

SH mgy-gybrn sft blkly vcarb

tr cht mlky-wh ang

LS wh-crm xfxl-litho fri slty occ tr fos w/scat cht por-tt nsfoc

LS crm-ltgy xfxl firm slty occ cht & tr fos por-p-tt nsfoc

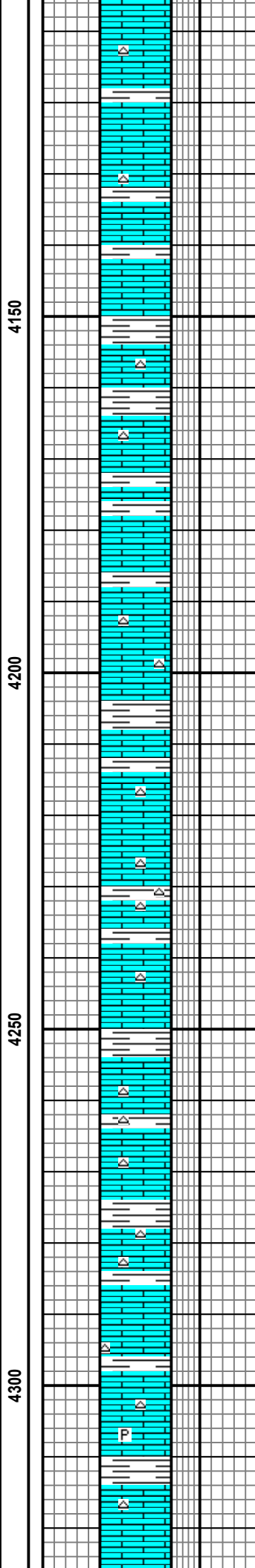
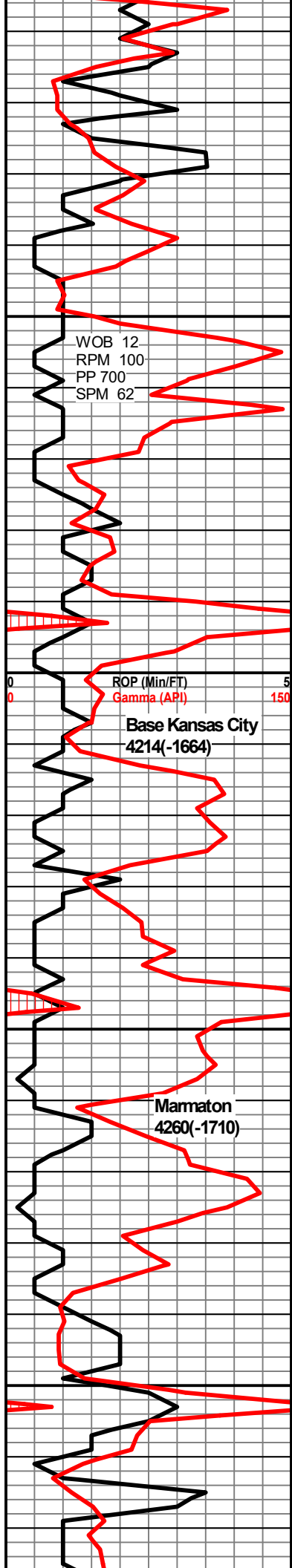
SH strgs mgy-sft blkly carb

LS wh-ltgy xfxl-gran fri-firm tr cht occ fos por-tt nsfoc

SH dkgy-gybrn sft blkly carb

LS tan-ltgy xfxl incr chty w/sh strgs por-p nsfoc

SH aa



LS ltgy-crm xfxl-gran fri slty slfos occ cht por-p nsfoc	
LS aa w/incr in cht & occ pyr slfos w/calc infill por-p nsfoc	
SH bk-gybrn sft-firm blkly vcarb	
LS crm-ltgy fir-fri suc slpyr & tr cht w/sh strgs; por-p-tt nsfoc	
SH strgs dkgy-gybrn frim blkly vcarb	
LS aa occ pyr por-tt nsfoc	
SH aa occ dkgy sft blkly tr cht vltgy-wh ang	
LS ltgy-wh xfxl fri occ suc chty w/intbd sh strgs por-p nsfoc	
LS aa incr suc gran fri por-p nsfoc	
SH dk-mgy sft plty carb	
LS ltgy-crm litho-xfxl firm slpyr occ chty w/tr fos por-p-tt nsfoc	
SH dkgy blkly carb slcalc	
LS mot tan-mgy xfxl xfxl firm-fri occ chky tr cht & vf pyr por-p nsfoc	
SH aa tr cht wh vang	

