



16221 LEO CIRCLE
LEAVENWORTH, KS 66048
913 544 7527
KEVIN BAILEY

COMPANY: Prairie Fire Petroleum, LLC Doug Frickey 34418
WELL: Long Haul #1-24
FIELD: Wildcat **COUNTY:** Decatur **STATE:** Kansas
LOCATION: NE/4 24-2-27 or 2370' FNL , 1520' FEL

Interval Logged: 3000 **To:** 4000 **G.L.:** 2618 **K.B.:** 2623
Date Logged: 5/07/2017 **To:** 5/15/2017 **Spud Date:** 4/27/2017
Rig: WHITE Knight Drilling Jerry Green 34743 **Unit No.:** #1
Loggers: ELI Hays, KS
Api No.: 15-039-21238-00-00
Filename: longh1-24prfr.mlw
Geologist: Kevin J. Bailey

Created By MainLog

Abbreviations:

NB...New Bit DST...Drill Stem Test
 CO...Circ Out DS...Directional Survey
 NR...No Returns CG...Connection gas
 TG...Trip Gas LAT...Logged After Trip
 WOB...Wt on Bit PP...Pump Pressure
 RPM...Rev/Min SPM...Strokes/Min
 SG...Survey Gas DTG...Down Time Gas

Mud Data

WT..Weight V..Viscosity
 PH..Acidity F..Filtrate
 CHL..Chlorides SC..Solids Content

Lithology Symbols:

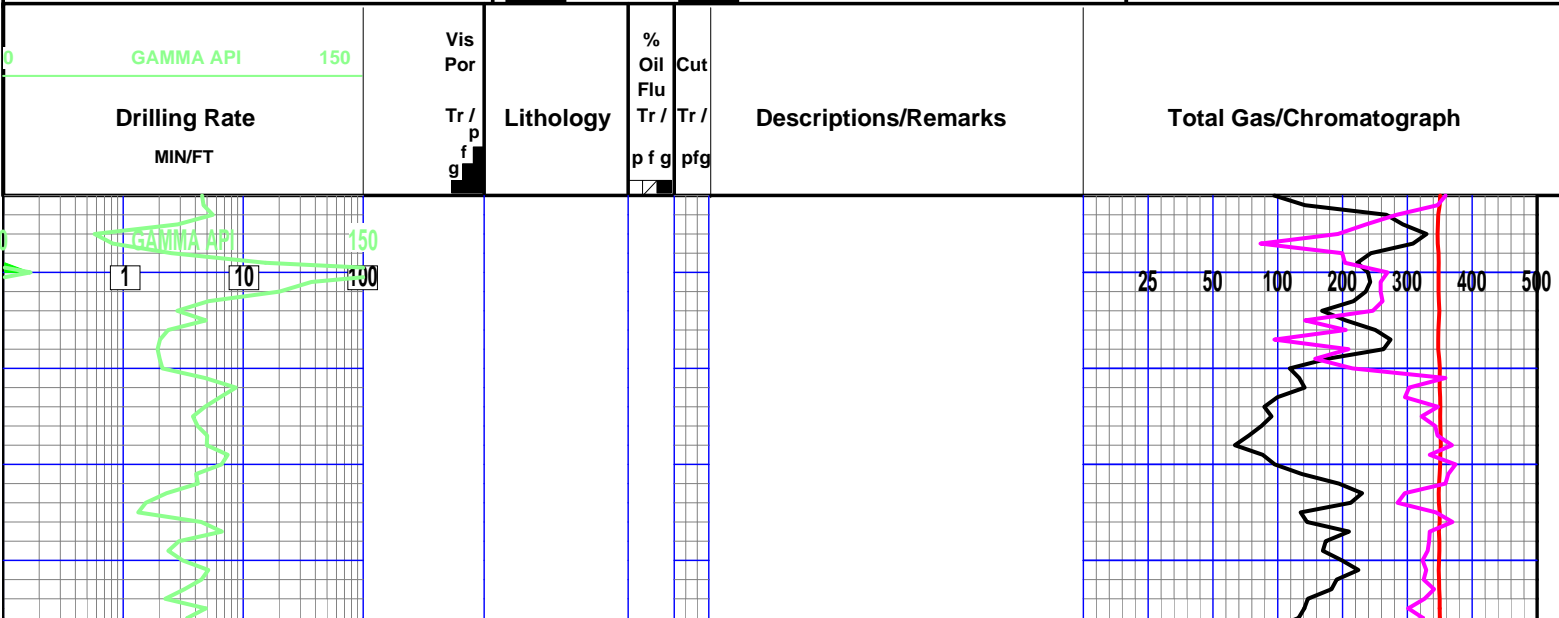
	Anhydrite		Salt		Granite
	Siltstone		Chert		Sandstone
	Dolomite		Conglomerate		Limestone
	Coal		Shale		Bentonite
	Carb Shale		Granite Wash		Quartz Wash
	Red Sh		Org Sh		Green Sh
	Cust Sh1		Cust Sh2		Cust Sh3
	Cust Sh4		Cust Sh5		Cust Sh6

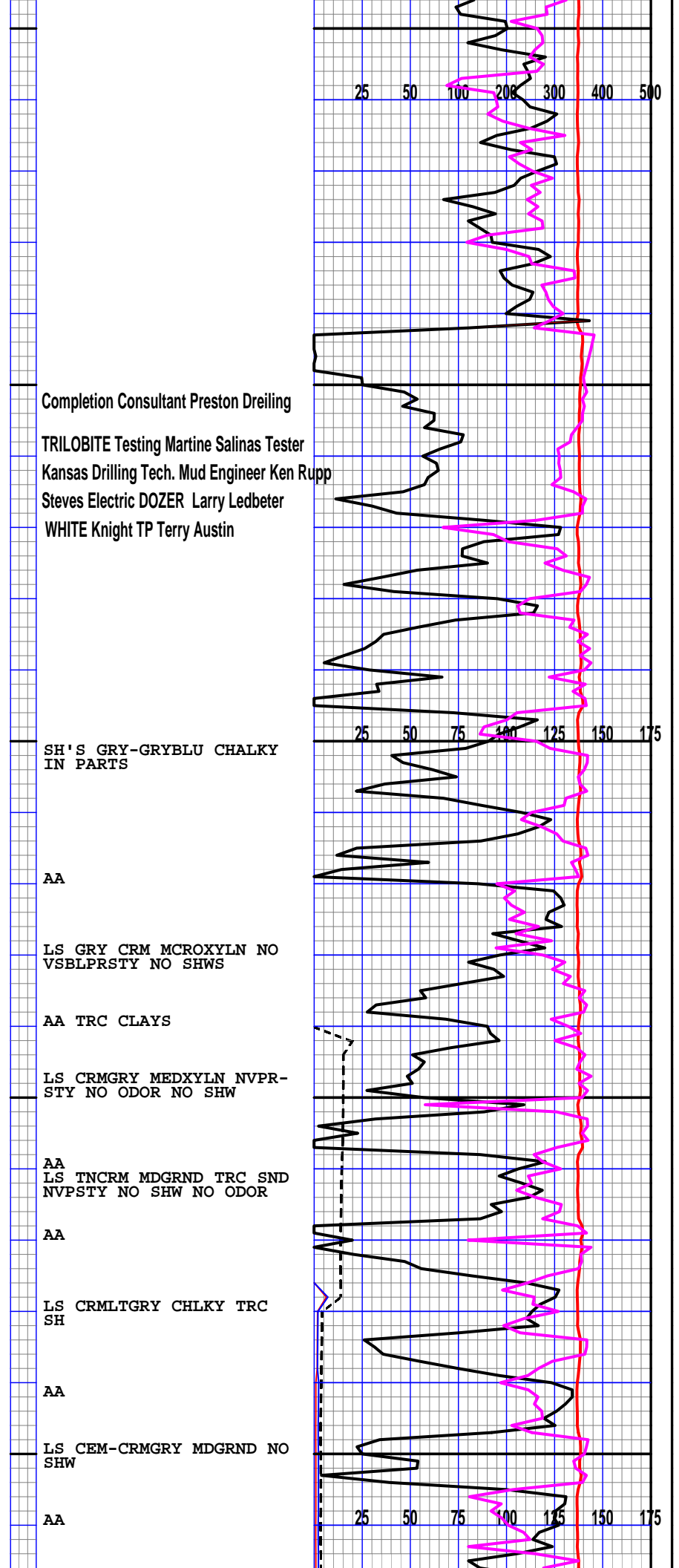
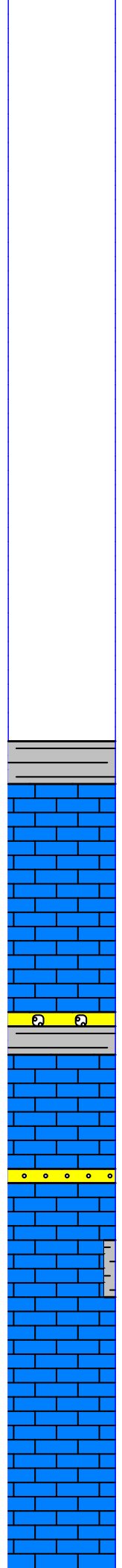
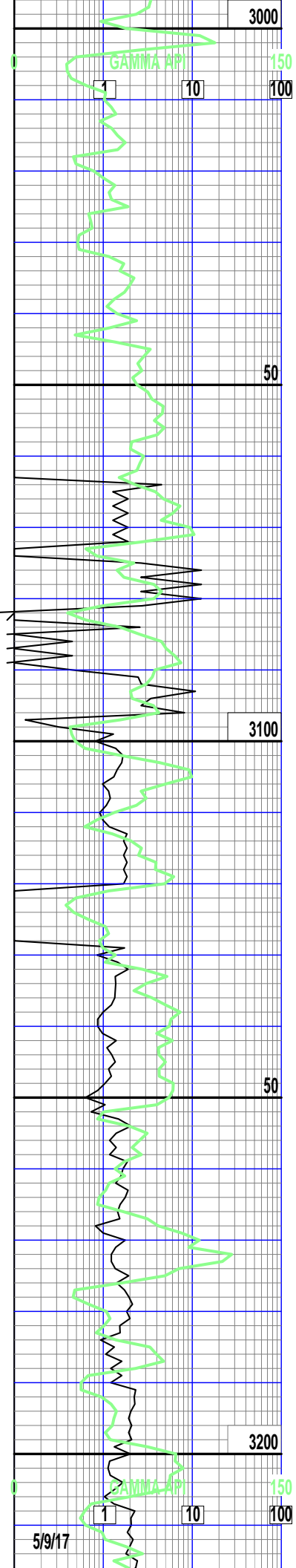
Gas Chromatograph Analysis:

HW -----
 C1 -----
 C2 -----
 C3 -----
 IC4 -----
 NC4 -----
 IC5 -----
 NC5 -----

Accessories

Glauconite Pyrite Fossils Oolites
 Fractures Cement





Completion Consultant Preston Dreiling
 TRILOBITE Testing Martine Salinas Tester
 Kansas Drilling Tech. Mud Engineer Ken Rupp
 Steves Electric DOZER Larry Ledbeter
 WHITE Knight TP Terry Austin

SH'S GRY-GRYBLU CHALKY
 IN PARTS

AA

LS GRY CRM MCROXYLN NO
 VSBLPRSTY NO SHWS

AA TRC CLAYS

LS CRMGRY MEDXYLN NVPR-
 STY NO ODOR NO SHW

AA
 LS TNCRM MDGRND TRC SND
 NVPSTY NO SHW NO ODOR

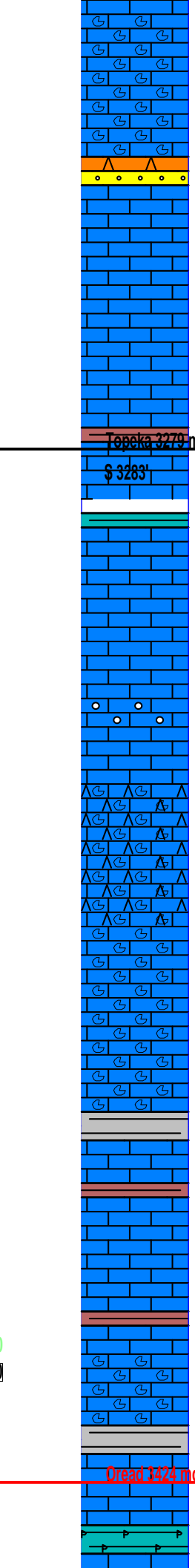
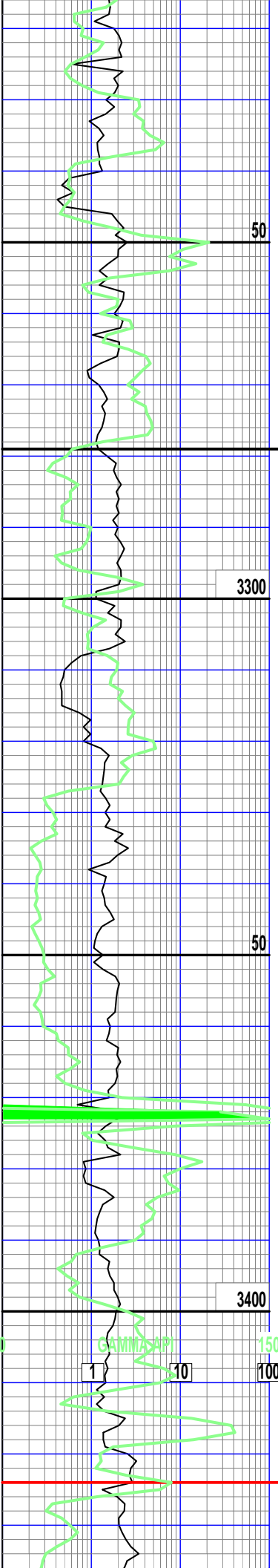
AA

LS CRMLTGRY CHLKY TRC
 SH

AA

LS CEM-CRMGRY MDGRND NO
 SHW

AA



LS CRMGY CHALKY THRGH-
OUT FSSL CRNDS BRCPDS

AA

LS CRMLTGRY CHLKY FSSL
IN GLSSY CHRT TRC SNDS
WELLCMNTD NO SHW VFNT
ODOR NVFO

LS CRMGRY CHLKY NO SHW
NO ODOR BAREN

AA

LS CRMDULL RED STAINING
MLKY NO SHWS
SH RED-BRWNRED

LS CRM MD-FNGRND CHLKY
TRC SH BLU-BLUGRN NO
SHW NO ODOR PRVPRSTY

AA LESS RED STAIN

CHLKY MLKY NO SHW

LS CRMWHT MICRXYN FSSL
CHLKY IN PARTS NO SHW
TRC GLCNT
AA TRC OOLTC TIGHT NO
SHW NO ODOR

LS CRM MICROXYLN TRCFSL
CHRT CRM NO ODOR NO SHW

AA

LS CRM-CRMVLTYLW MICRO-
XYLN FSL NO SHW NO ODOR

AA

LS CRM MOCROXYLN FSSL
NVPRSTY NO SHW

SH GRY BRWN FISSL

LS LTGRY MICROXYLN NO
SHW

LS CR-LTGRY VFXYLN NO
SHW NO ODOR TRC REDBRWN
STAIN

AA SH RED BRWN

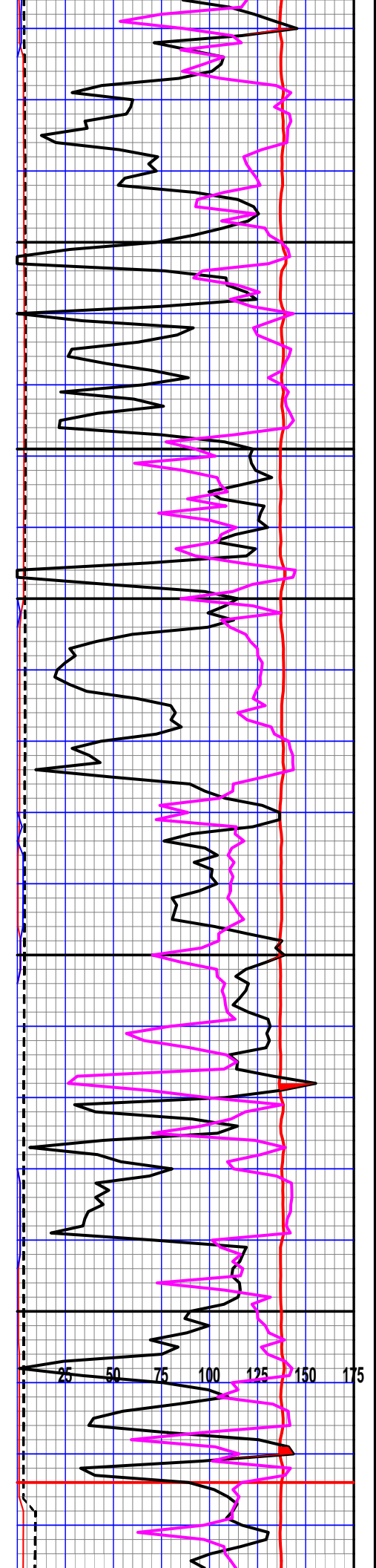
LS CRM-VLT GRY TRC VGY
FOSL PVPRSTY TRC CHLKY
NO SHW

SH GRY BRWN MLIKY

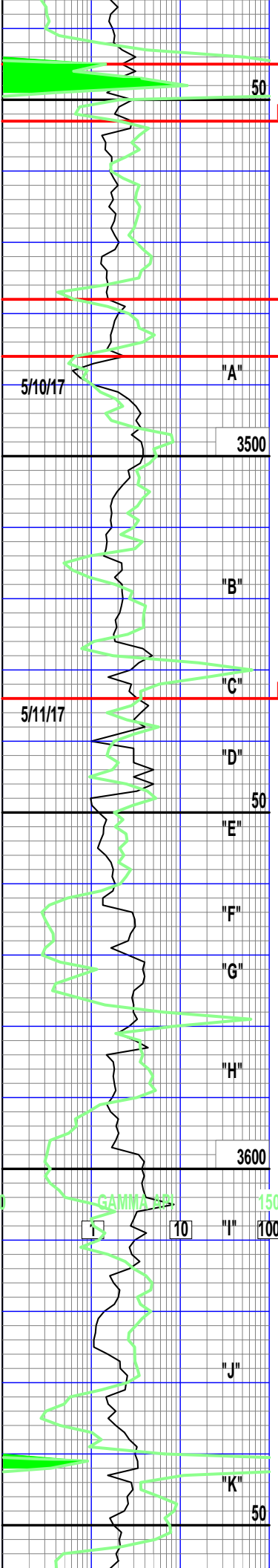
LS CRMDXYLN SLIGHTLYVGY
NVPRSTY NO SHW NO ODOR

AA SH GRN PYRTIC GLCNIT

LS CRM-LT GRYMDXYLN TRC



Dread 3423 md (-801 SS)



Bonner 3445 md (-822 SS)
 LEAVENWORTH 3453 md (-830 SS)

Lansing 3470 md (-855 SS)
 Lansing 3486 md (-863 SS)

Bonner Springs 3534 md (-914 SS)

S 3448

S 3480

S 3486

S 3486

SH LINT GRN TRC BRTL

LS CRMWHITMDXYLN CHALKY
 BRILE NO SHW NO ODOR

SH BLK GRY LMNATED
 LS LTCRMLTYLLW MICRO-
 XYLN CRNDFSSL CHERTY IN
 PARTS NO SHW NO ODOR

LS CRMDULLYLWHT MICRO-
 XYLN MICROFSSL NO SHW
 NO ODOR

LS CRM-CRMLTYLW MDXYLN
 SHARD TIGHT NO SHW FAINT
 ODOR

LS CLRWHT VGY GD SHW IN
 FR SHW WHEN CRUSHED LOW
 ODOR TO FAINT

LS CRM CHHKLY NVPRSTY
 NO SHW NO ODOR

LS CRMCLR XYLNCLKY TRC
 FSSL NVPRSTY NO ODOR NO
 SHW

LS CRMVUGGY-XYLN FRODOR
 SLIGHT SHW

AA LS CRMVGGY W/OIL ON
 SUFRCE GD SHW WHEN CRSD

SH BRWNRED-BRCK W/INBDD
 CALCUS BULKYDRK GRY SH

AA SH DRK TRC PYRT

LS CRMMDXYLN BRITL IN-
 PRTS SLT CHLKY SLFSSL
 TRC CHERT CRM FSSL NO
 SHW NO ODOR

AA LS CRM-CRMLTGRY-BRTL
 SLFSSL CHLKY INPARTS NO
 ODOR NO SHW

LS CRMXYLN BRTL NVPSTY
 W/INTBDD CHERT WHTCRM
 NO ODOR NO SHW

LS CRMBRGTWHT MICOXYLN
 SLCHRT NVPSTY NOSHWO
 ODR

AA

LS CRM-WHTLTGRYXYLN TRC
 STN IN CHERTCRM NO ODOR
 NFO

AA >CHERTS CRM-LTGRYPYR
 INTBDD BIT CHATTER NO-
 SHW-NO ODR

LS CRM-CRMYLW CHERTY IN
 PRTS NO SHW NO ODR

SH BRWNRD SOFTINPRTS W/
 FNT-FR ODOR NO SHW

AA CONGL. SH CLY BRWN-
 BRWNRD SOFT REDSTAINED
 THRGHOUT.

SH BRWNRD MUSHYSOFT RED
 STAINED FNT ODOR NOSHW

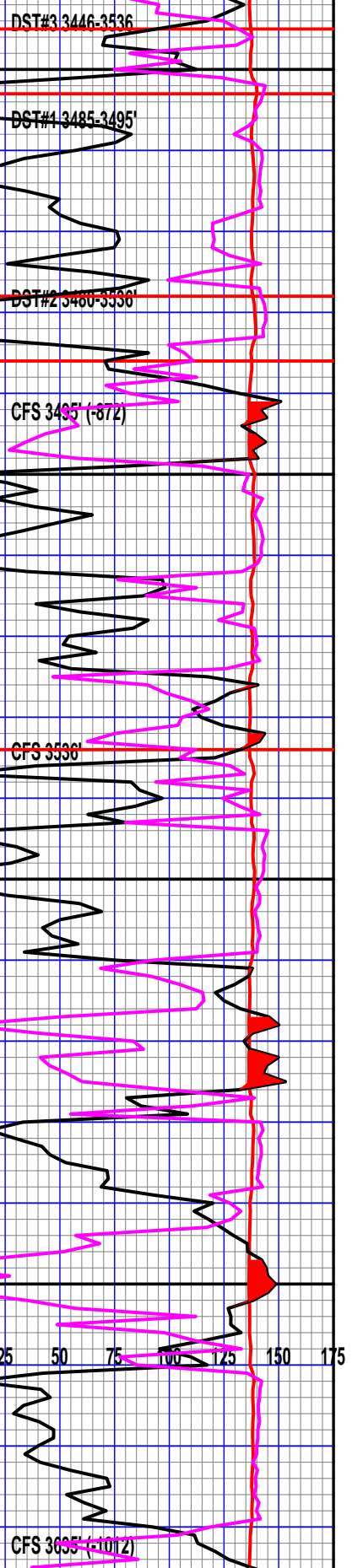
LS CRM-CRMYLW BRILTHRGH
 OUT TRC FSSL CRND NOSHW
 NO ODOR

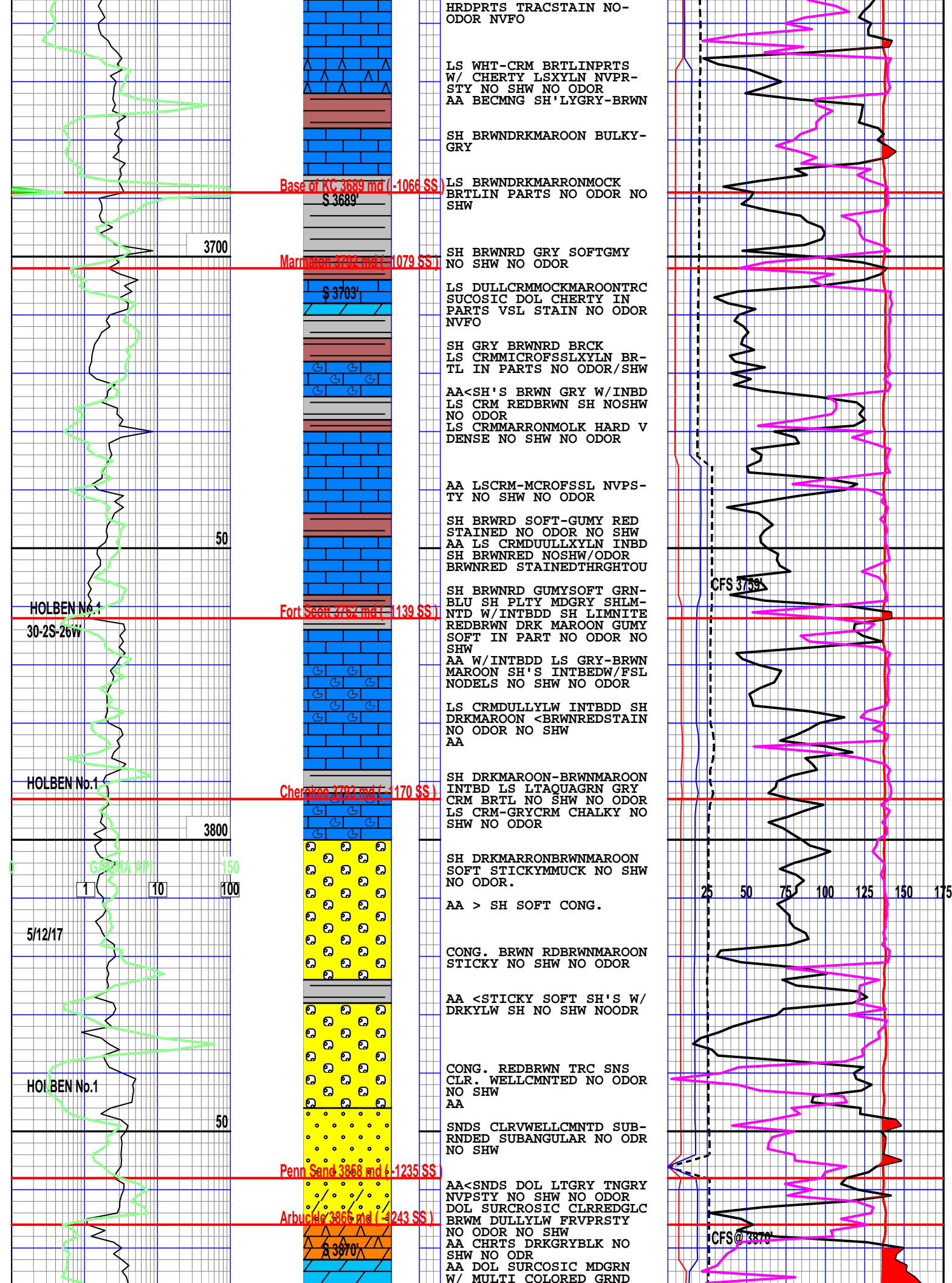
LS CRM-YLWCRM MIROFSSLX
 LYN NVPRSTY NOSHWO
 ODR

LS CRMYLWVGY-XYLN W/SLT
 STAININ BRTL LS FNTODOR
 NVFO

AA SNS CLRGY SL STAIN
 FNT-FR ODOR NVFO

LS CRM-CRMLTYLW BRTL W/





HRDPRTS TRACSTAIN NO-ODOR NVFO

LS WHT-CRM BRTLINPRTS W/ CHERTY LSXYLN NVPR-STY NO SHW NO ODOR AA BECMNG SH'LYGRY-BRWN

SH BRWNRKMAROON BULKY-GRY

Base of KC 3689 md (-1066 SS)
S 3689'

LS BRWNRKMARRONMOCK BRTLIN PARTS NO ODOR NO SHW

3700

Marmaton 3702 md (-1079 SS)

SH BRWRD GRY SOFTGMY NO SHW NO ODOR

LS DULLCRMCKMAROONTRC SUCOSIC DOL CHERTY IN PARTS VSL STAIN NO ODOR NVFO

SH GRY BRWRD BRCK LS CRMMICROFSSLXYLN BRTL IN PARTS NO ODOR/SHW

AA<SH'S BRWN GRY W/INBD LS CRM REDBRWN SH NOSHW NO ODOR LS CRMMARRONMOLK HARD V DENSE NO SHW NO ODOR

50

AA LSCRM-MCROFSSL NVPS-TY NO SHW NO ODOR

SH BRWRD SOFT-GUMY RED STAINED NO ODOR NO SHW AA LS CRMDUULLXYLN INBD SH BRWNRED NOSHW/ODOR BRWNRED STAINEDTHRHTOU

HOLBEN No.1

30-2S-26W

Fort Scott 3782 md (-1139 SS)

SH BRWRD GUMYSOFT GRN-BLU SH PLTY MDGRY SHLMTD W/INTBDD SH LIMNITE REDBRWN DRK MAROON GUMY SOFT IN PART NO ODOR NO SHW AA W/INTBDD LS GRY-BRWN MAROON SH'S INTBEDW/FSL NODELS NO SHW NO ODOR

LS CRMDULLYLW INTBDD SH DRKMAROON <BRWNREDSTAIN NO ODOR NO SHW AA

HOLBEN No.1

Cherokee 3792 md (-1170 SS)

SH DRKMAROON-BRWNMAROON INTBD LS LTAQUAGRN GRY CRM BRTL NO SHW NO ODOR LS CRM-GRYCRM CHALKY NO SHW NO ODOR

3800

SH DRKMARRONBRWNMAROON SOFT STICKYMUCK NO SHW NO ODOR.

AA > SH SOFT CONG.

5/12/17

CONG. BRWN RDBRWNMAROON STICKY NO SHW NO ODOR

AA <STICKY SOFT SH'S W/ DRKYLW SH NO SHW NOODR

HOLBEN No.1

50

CONG. REDBRWN TRC SNS CLR. WELLCMNTD NO ODOR NO SHW AA

SNDS CLRWELLCMNTD SUBRNDED SUBANGULAR NO ODR NO SHW

Penn Sand 3858 md (-1235 SS)

AA<SNDS DOL LTGRY TNGRY NVPS-TY NO SHW NO ODOR DOL SURCROSIC CLRREDGLC BRWM DULLYLW FRVPRSTY NO ODOR NO SHW AA CHR'S DRKGRYBLK NO SHW NO ODR AA DOL SURCROSIC MDGRN W/ MULTI COLORED GRND

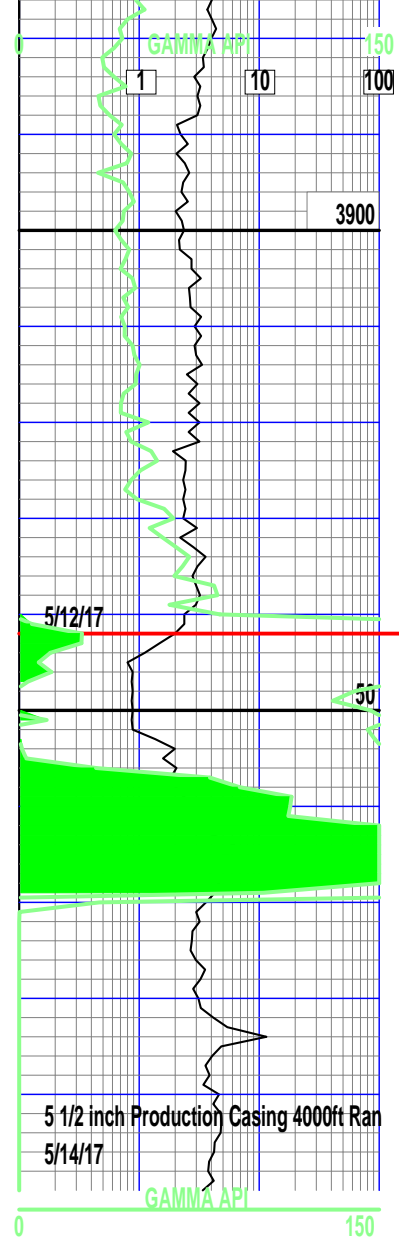
Arbuckle 3866 md (-1243 SS)

3970

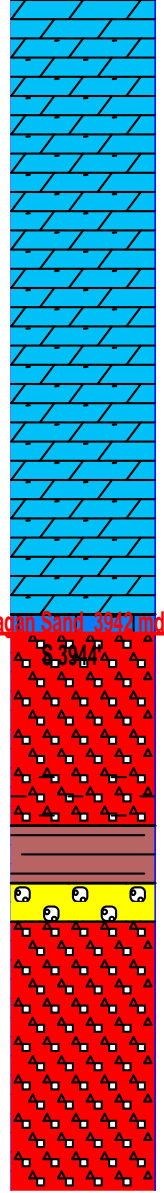
CFS 3739'

CFS @ 3870'

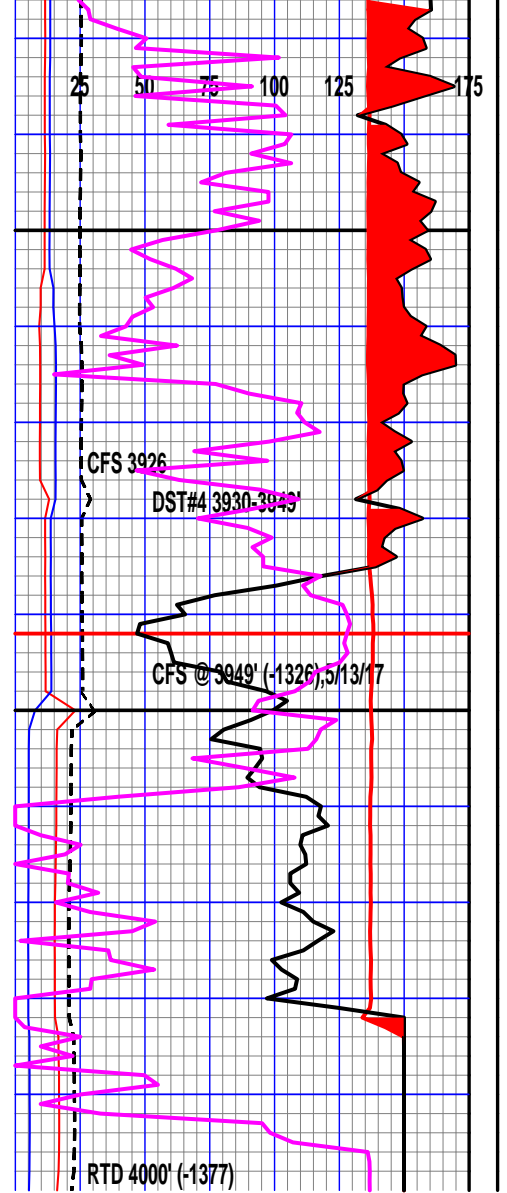
25 50 75 100 125 150 175



Ream Sand 3937md (-1319 SS)



MED-FN NO SHW NOODOR
 AA> GLUNIT FLACKS SPECS
 AA DOL GLUCNT GRN FLCKS
 SIZE INCREASED AND DRKR
 NO SHW NO ODR
 DOL CRMYLW MICOXYLN W/
 CHRYS CRM DRKGRY NO ODR
 NO SHW
 DOL CRMYLW-TNYLW SURCRO
 SIC MOST BRTL-DENSE NO
 ODOR NO SHW
 AA RDSTAIND THROUGHOUT
 Start 5ft samples
 DOL SURCSIC-MEDGRN TN-
 BRWN SOME GLCNIT SPECS
 INMATRX W/ SNDS VWELL
 CMNTD SOME CRSHBL NOSHW
 NO ODOR TRC-FR PRSTY
 AA DOL DRKPNKMAROONMCRO
 MDGRND NO ODOR NO SHW
 DOL TNBRNYLW SURCSIC W/
 GLCNT SPEC FLAKES NO
 ODOR NO SHW
 DOL SURCOSICTNBRWNGLCNT
 SPECS BRWN STAIN NO ODR
 NVFO
 AA OXYGNTD DEPOSTNAL EN
 VIROMENT CONDITIONS
 SNS CLR-TNBRWN EASYCRS
 HABL GLCNT SNS TRC BRW
 STAIN NO FLOUR
 SNDS MULTICOLORD GWASH
 GLCNITC SS SPEC/FLACKS
 GILSNITFELDSPARRD MULTI
 SNDS CLR PINKDRKRD WELL
 RND TO SUB RDD
 MULTI COLRD QRTZSNDGRNS
 ANGULR TOSUB WHTCLRQRTZ
 SH'S BRWNRDBRKRD NO SHW
 NO ODOR
 AA W/CONG.SH'S SNDS NO
 ODOR NO SHWS
 AA<PINKRD STAIN OXYGNTD
 DEPOSITIONL ENVIRONMENT
 AA<SNDS QRTZ/FELDPAR W/
 DOL WEATHRD SNDS PINK-
 RD STAINDSURFAC&QRTZ NO
 ODOR NO SHW
 CFS & CTCH 1hr 15min prior to E-log



DENSITY POR	
.3	-05
NEUTRON POR	
.3	-05
CROSSPLOT POR	
.3	-05