



Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name:	M&M Exploration, Inc.	Z-Bar 26-15
Location:	Sec. 26-T33S-R15W	Barber Co., Kansas
License Number:	15-007-24069	Region: Aetna
Spud Date:	9-6-2013	Drilling Completed: 9-13-2013
Surface Coordinates:	560' FSL & 2,100' FEL, SE/4	
Bottom Hole Coordinates:	As Above	
Ground Elevation (ft):	1,809'	K.B. Elevation (ft): 1,819'
Logged Interval (ft):	3,900' To: 5,150'	Total Depth (ft): 5,150'
Formation:	Pennsylvanian & Mississippian	
Type of Drilling Fluid:	Chemical	

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

OPERATOR

Company: M&M Exploration, Inc.  
Address: 4257 Main Street, #230  
Westminster, CO 80031

GEOLOGIST

Name: Mr. Mike Pollok  
Company: MAP Exploration, Inc.  
Address: PO Box 106  
Purcell, OK 73080

Comments

Hardt Drilling, Rig 1, Samples  
Mudlogging Unit 1  
Mudlogger: Bill Busch

### ROCK TYPES

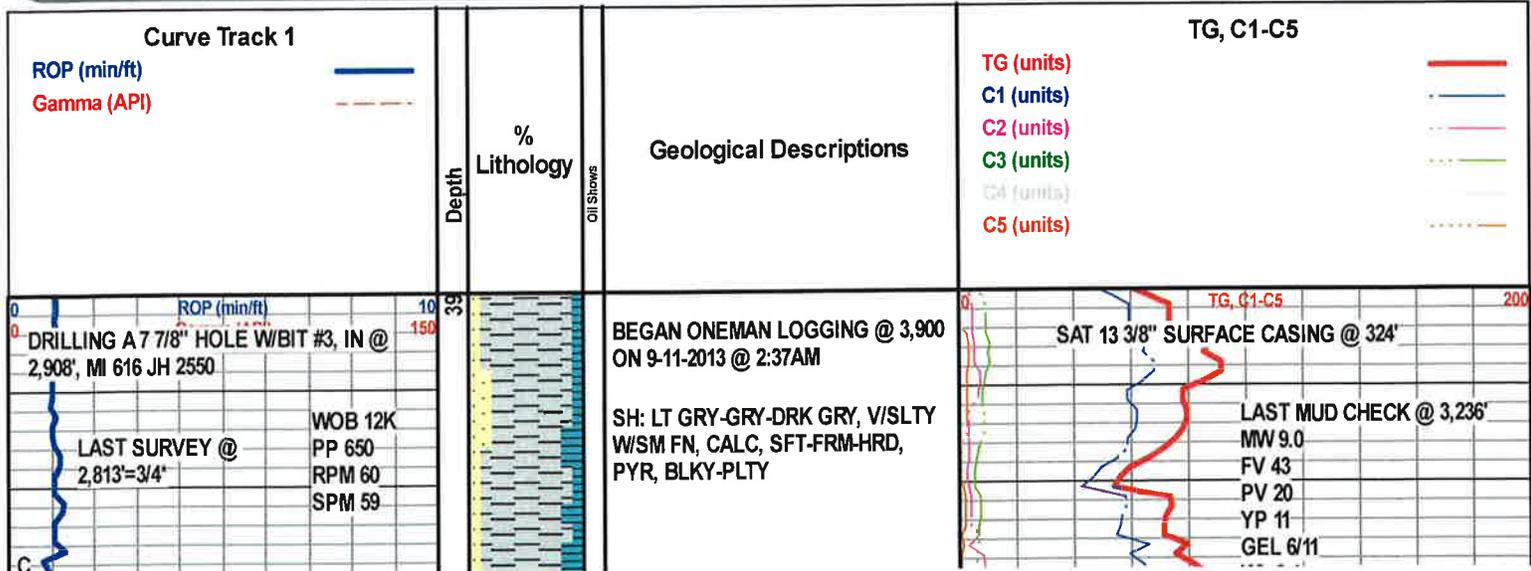
	Anhy		Congl		Mrlst		Ss
	Bent		Dol		Salt		Till
	Brec		Gyp		Shale		sdy sh
	Cht		Igne		Shcol		calc sh
	Clyst		Lmst		Shgy		shale
	Coal		Meta		Sltst		carb sh

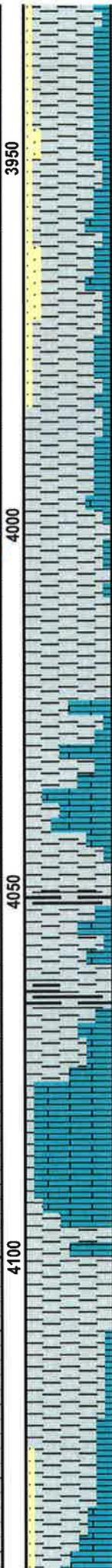
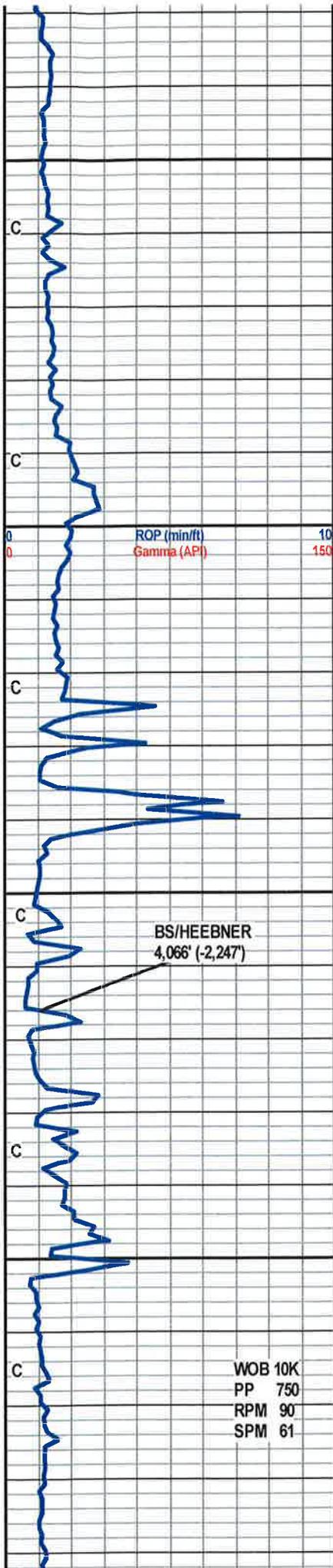
### ACCESSORIES

<b>MINERAL</b>		Minxl		Crin		Gyp	
	Anhy		Nodule		Echin		Ls
	Arggrn		Phos		Fish		Mrst
	Arg		Pyr		Foram		Sltstrg
	Bent		Salt		Fossil		Ssstrg
	Bit		Sandy		Gastro		
	Brecfrag		Silt		Oolite	<b>TEXTURE</b>	
	Calc		Sil		Ostra		Boundst
	Carb		Sulphur		Pelec		Chalky
	Chtdk				Pellet		Cryxln
	Chtlt	<b>FOSSIL</b>			Pisolite		Earthy
	Dol		Algae		Plant		Finexln
	Feldspar		Amph		Strom		Grainst
	Ferrpel		Belm	<b>STRINGER</b>			Lithogr
	Ferr		Bioclst		Anhy		Microxin
	Glau		Brach		Arg		Mudst
	Gyp		Bryozoa		Bent		Packst
	Hvymin		Cephal		Coal		Wackest
	Kaol		Coral		Dol		
	Marl						

### OTHER SYMBOLS

<b>POROSITY TYPE</b>		Angular	<b>INTERVALS</b>		Core
	Earthy	<b>OIL SHOWS</b>		Dst	
	Fenest		Even		
	Fracture		Spotted	<b>EVENTS</b>	
	Inter		Ques		Rft
	Moldic		Dead		Sidewall
	Organic				
	Pinpoint	<b>ROUNDING</b>			
	Vuggy		Rounded		
			Subrnd		
			Subang		





SH: AAB W/SM FOSS & MICA

SH: LT GRY-GRY, FN-SLTY,  
SFT-BRTL-HRD, CALC, IMBD CALC  
FOSS, PYR, MICA, BLKY-PLTY

SH: LT GRY-GRY, V/FN-FN-SLTY,  
SFT-FRM, CALC, PYR, MICA, PLTY  
WSM BLKY

LS: CRM-TN-BFF-BRN-GRY,  
XLN-MED-DNS WTR SUCR,  
BRTL-HRD WSM FRI, FOSS, ARG  
I.P., TR MLD'C, SM FRAC POR, DLL  
YEL FLU, NO VIS STN, CUT, OR  
ODOR

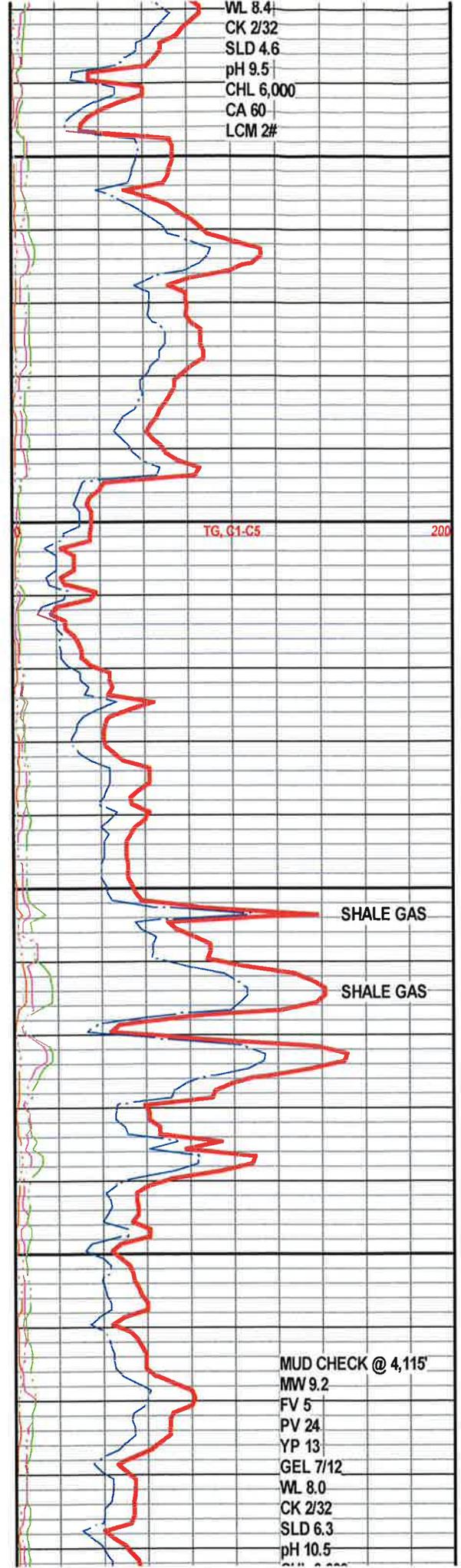
SH: BLK, WXY, HRD, CARB, BLKY

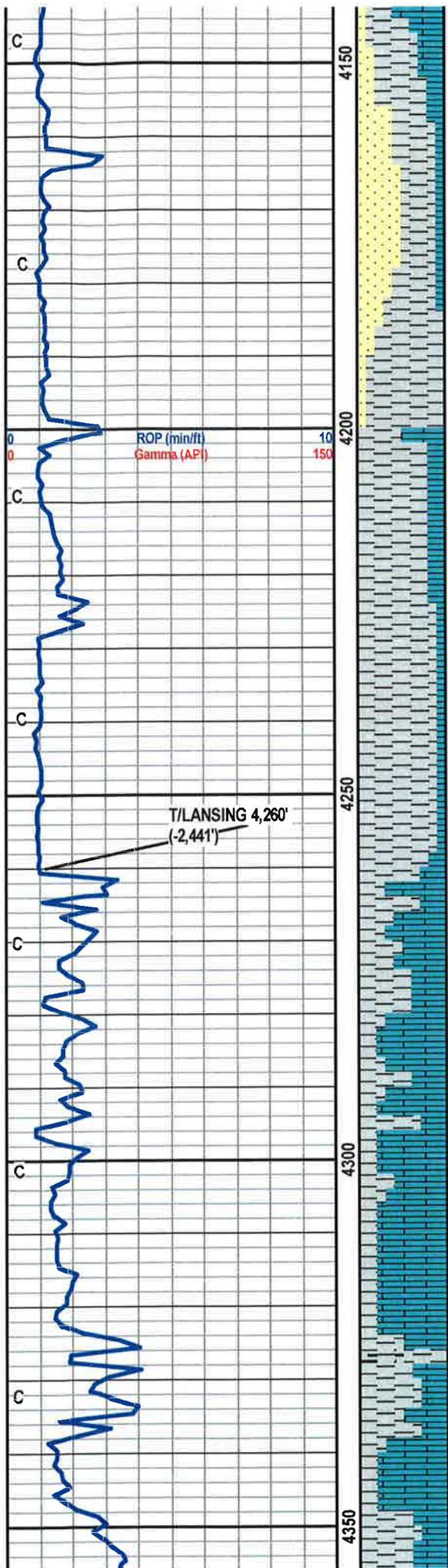
LS: OFF WHT-WHT-CRM,  
MED-FN-CHKY WTR XLN, SFT-FRM  
WTR HRD, FOSS, TR SUCR, PP  
POR, DLL YEL-WHT FLU, NO VIS  
STN, CUT, OR ODOR

SH: LT GRY-GRY-DRK GRY, SLTY  
WSM FN, SFT, CALC, MICA, PYR,  
PLTY-BLKY, TR CARB

SH: LT GRY-GRY, SLTY WSM FN,  
FRM-BRTL, CALC, FOSS, MICA,  
PYR, SPL-BLKY-PLTY

LS: OFF WHT-CRM-BRN, XLN-FN,





BRTL-HRD, PYR, FOSS, PP W/SM  
FRAC POR, SL ARG I.P., DLL YEL  
FLU, NO VIS STN, CUT, OR ODOR

SS: OFF WHT-WHT-LT GRY, FN-MED,  
SUB RND-SUB ANG, FROS W/SM  
CLR, CONSL, CALC, PYR, GLAU'C  
SPKS, MICA, YEL FLU, SM DD OIL  
STN, NO VIS CUT OR ODOR

SH: GRY W/SM LT GRY, FN-SLTY,  
CALC, SFT, MICA, FOSS, PLTY

SH: LT GRY-GRY W/SM DRK GRY,  
FN-SLTY, SFT-FRM, CALC, MICA,  
PYR, CARB I.P., PLTY-BLKY

LS: OFF WHT-CRM-LT GRY-DRK  
BRN, XLN-FN-MED-DNS, HRD W/SM  
BRTL, ARG, FOSS, PP W/SM FRAC  
POR, TR DLL FLU, NO VIS STN CUT,  
OR ODOR

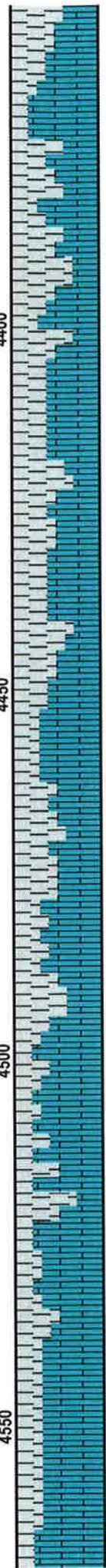
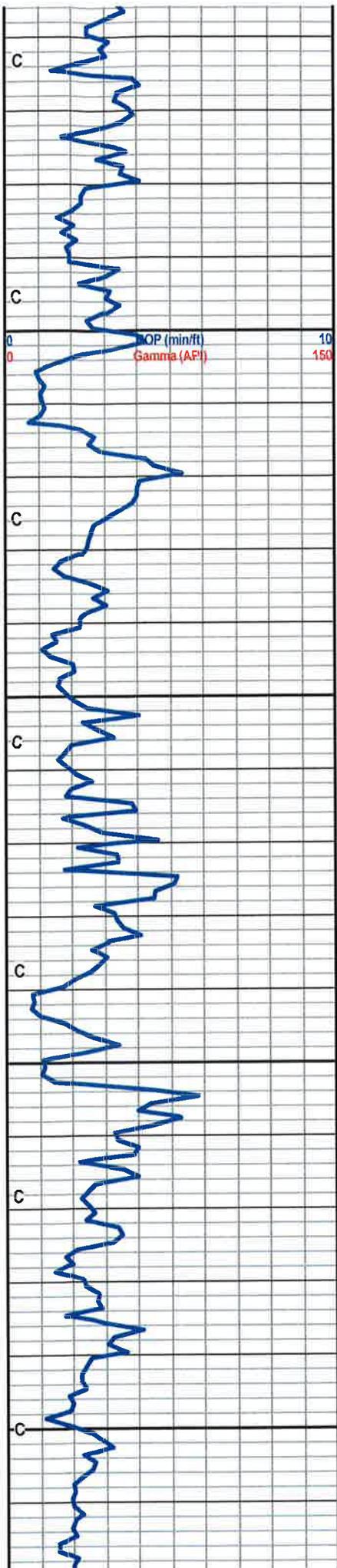
LS: WHT-CRM-GRY-BRN-DRK BRN,  
XLN-FN W/SM MED & CHKY, HRD  
W/SM SFT, FOSS, ARG, GD PP POR,  
SM DLL YEL FLU, NO VIS STN, CUT,  
OR ODOR

LS: OFF WTH-CRM-BRN-GRY,  
XLN-FN-MED, HRD W/TR FRI, ARG,  
FOSS, GD PP POR I.P., DLL FLU, SM  
DD OIL STN, NO VIS CUT OR ODOR

CHL 3,000  
CA 40  
LCM tr

TG, C1-C5

200



LS: WHT-OFF WHT-CRM BRN-DRK  
 BRN-GRY, MCRO XLN-XLN-FN-MED,  
 HRD WTR FRI, ARG, FOSS, PP  
 WSM FRAC POR, DLL FLU, SM DD  
 OIL STN, NO VIS CUT OR ODOR

LS: WHT-OFF WHT-BRN-DRK BRN  
 WTR GRY, DNS-MED WTR SUCR,  
 FRM-HRD, FOSS, TR ARG, PP WSM  
 VUG POR, DLL FLU, NO VIS STN,  
 CUT, OR ODOR

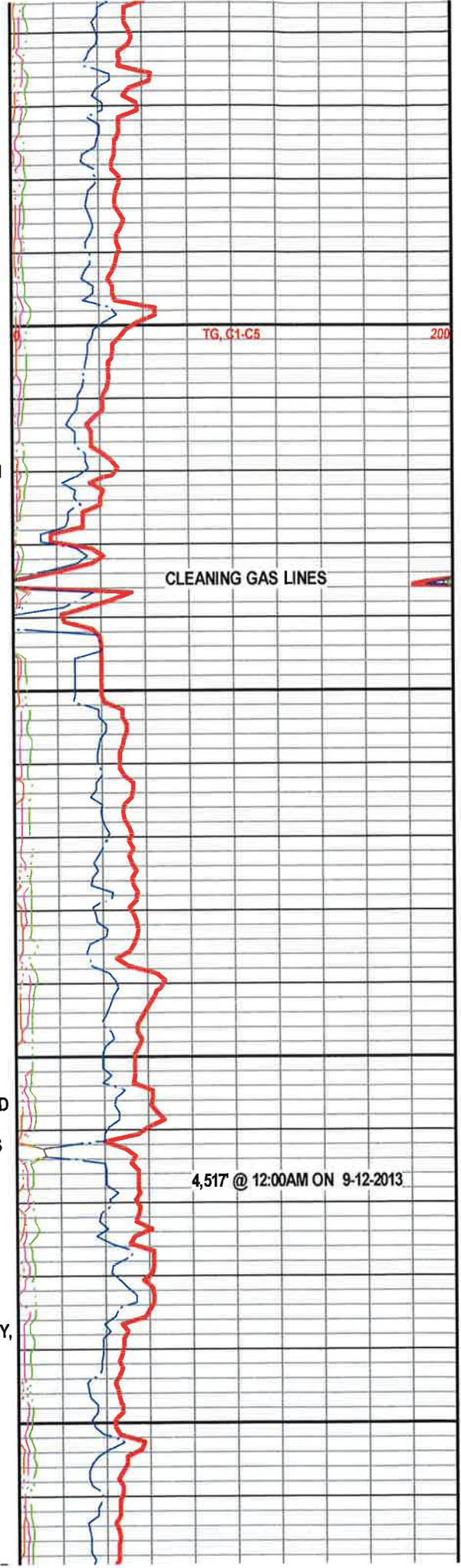
LS: CRM-WHT-BFF-BRN,  
 XLN-MED-DNS WSM CHKY,  
 BRTL-HRD WSM FRI, ARG, FOSS,  
 SM SUCR, PP WSM FRAC POR,  
 YEL FLU, NO VIS STN, CUT, OR  
 ODOR

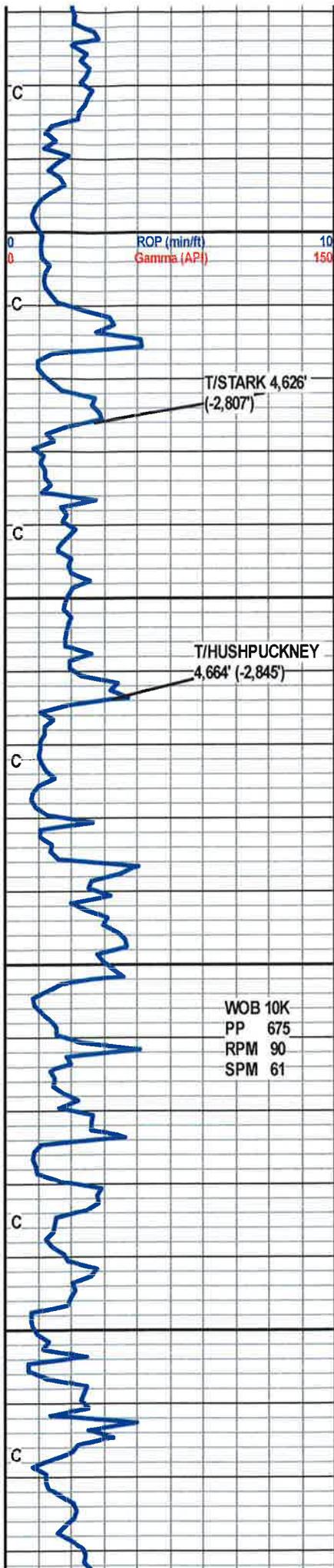
LS: CRM-BFF-BRN-GRY, FN-MED,  
 BRTL-HRD, FOSS, ARG, PP POR,  
 DLL FLU, NO VIS STN, CUT, OR  
 ODOR

LS: WHT-CRM-BFF-BRN,  
 XLN-FN-MED WTR CHKY, BRTL-HRD  
 WSM FRM, FOSS, ARG, PP WSM  
 VUG POR, YEL & WHT FLU, NO VIS  
 STN, CUT, OR ODOR

LS: WHT-CRM-BFF WTR DRK BRN,  
 XLN-FN, BRTL-HRD-DNS WTR CHKY,  
 FOSS, TR DOLO'C, PP WSM FRAC  
 POR, DLL FLU, NO VIS STN, CUT,  
 OR ODOR

LS: CRM-BRN-GRY, XLN-FN-MED,





HRD WSM BRTL, TR PYR, CHRT, TR DOLO'C, FOSS, PP W/TR VUG POR, DLL FLU, NO VIS STN, CUT, OR ODOR

LS: WHT-CRM-BRN-DRK BRN, MED WSM XLN, HRD WSM SFT, ARG, FOSS, SM DOLO'C, CHRT, PP W/TR VUG POR, SM DLL FLU, NO VIS STN, CUT, OR ODOR

LS: CRM-BFF-BRN-DRK BRN, XLN-FN WSM SUCR, FRM-HRD, CHRT, SM DOLO'C, GD PP WSM INTR XLN POR, DLL FLU, NO VIS STN, CUT, OR ODOR

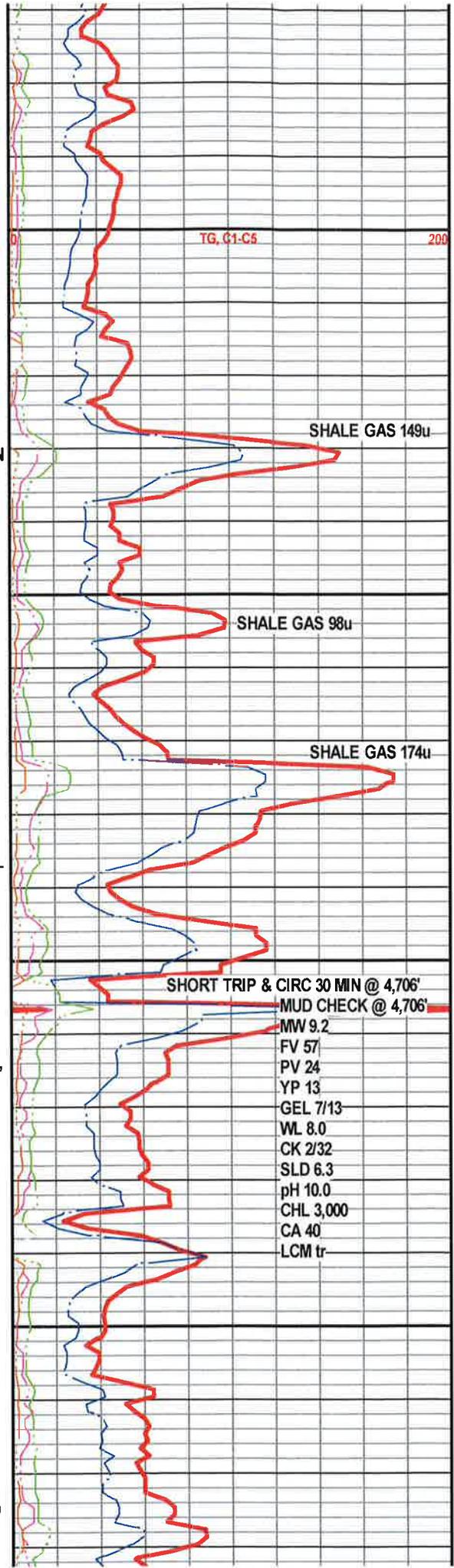
LS: AAB W/SM PYR

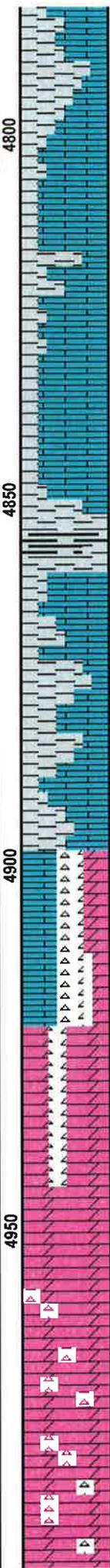
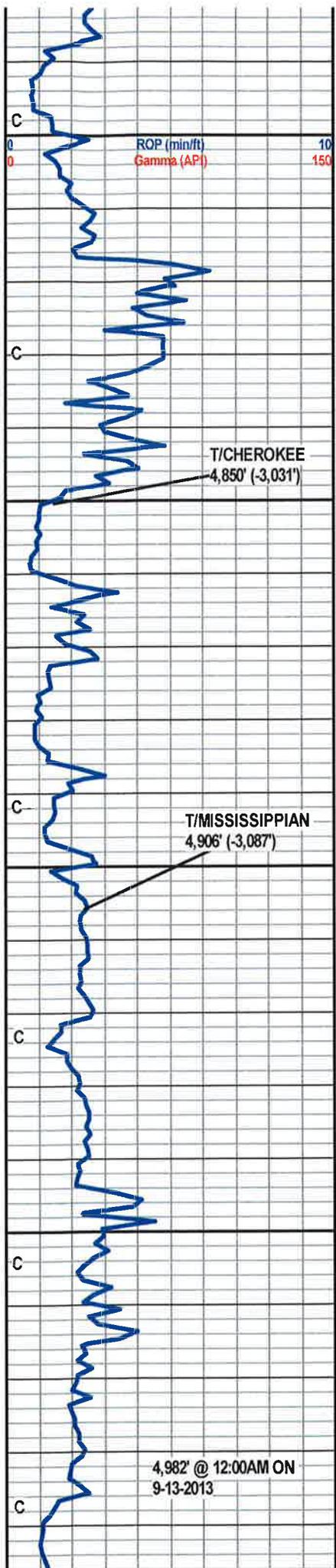
LS: CRM-BFF-BRN-BRN GRY, XLN-FN-DNS, HRD WSM BRTL, TR MLD'C, PP W/TR FRAC POR, SM DLL FLU, NO VIS STN, CUT, OR ODOR

LS: BFF-BRN W/TR CRM, XLN-FN-MED-DNS, HRD W/ TR BRTL, TR ARG, FOSS, TR DOLO'C, PP W/TR FRAC POR, DLL FLU, NO VIS STN, CUT, ODOR

SH: GRY-DRK GRY-BLK W/ SM LT GRY, FN-WXY W/SM SLTY, SFT-FRM-HRD, CALC, PYR, MICA, CARB I.P., W/LS AAB W/TR OF DLL FLU, NS

LS: CRM-BFF-BRN-BRN GRY, XLN-FN-MED WSM CHKY, FRM-HRD W/SM SFT, SM ARG, PYR, SL DOLO'C I.P., PR PP POR, DLL FLU,





SM DD OIL STN, NO VIS CUT OR ODOR

LS: CRM-BFF-BRN, XLN-DNS-FN, HARD WSM BRTL, FOSS, PR PP WSM FRAC POR, DLL YEL WHT FLU, NO VIS STN, CUT, OR ODOR

LS: WHT-CRM-BFF-BRN, XLN-FN-MED, HARD WSM BRTL, CHRT, FOSS, SM/MLD'C, PP-INTR XLN W TR FRAC POR, DLL WTR BRT FLU, GD STRMG CUT, OIL STN, NO ODOR

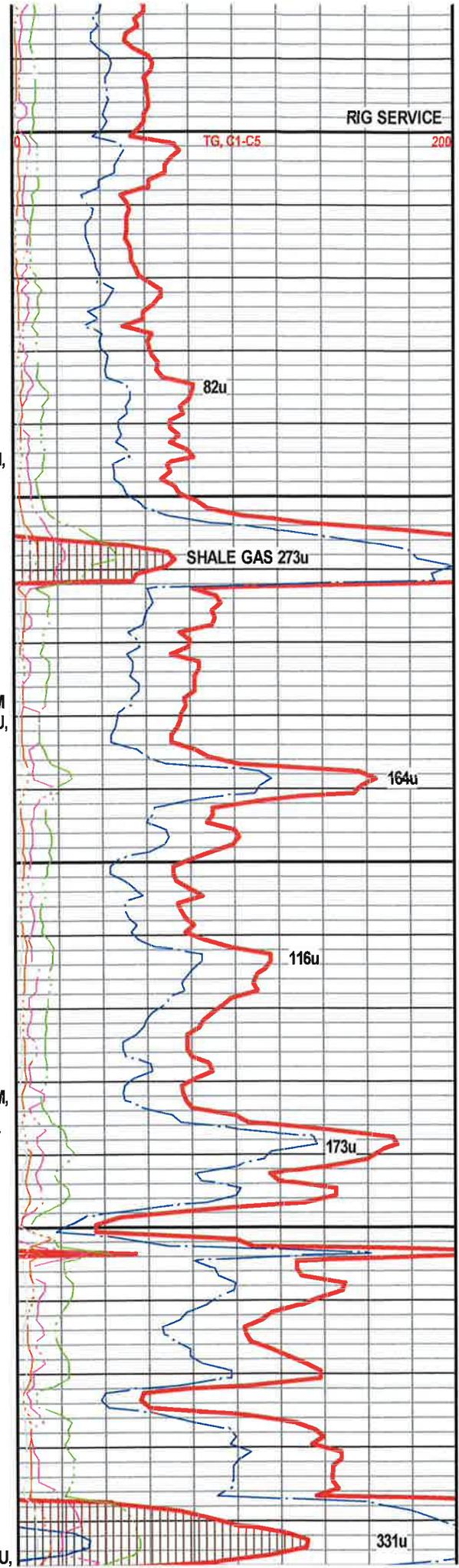
LS: OFF WHT-CRM-BRN-BFF, XLN-FN-MED, HRD, GD PP I.P. WSM INTR XLN POR, DLL & BRT YEL FLU, ABNDT OIL STN, GD STRMG CUT, NO ODOR

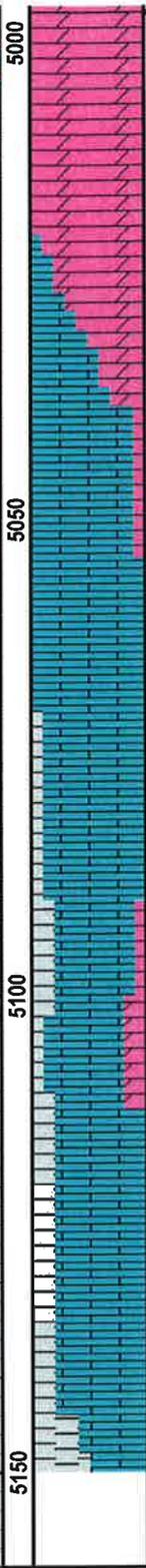
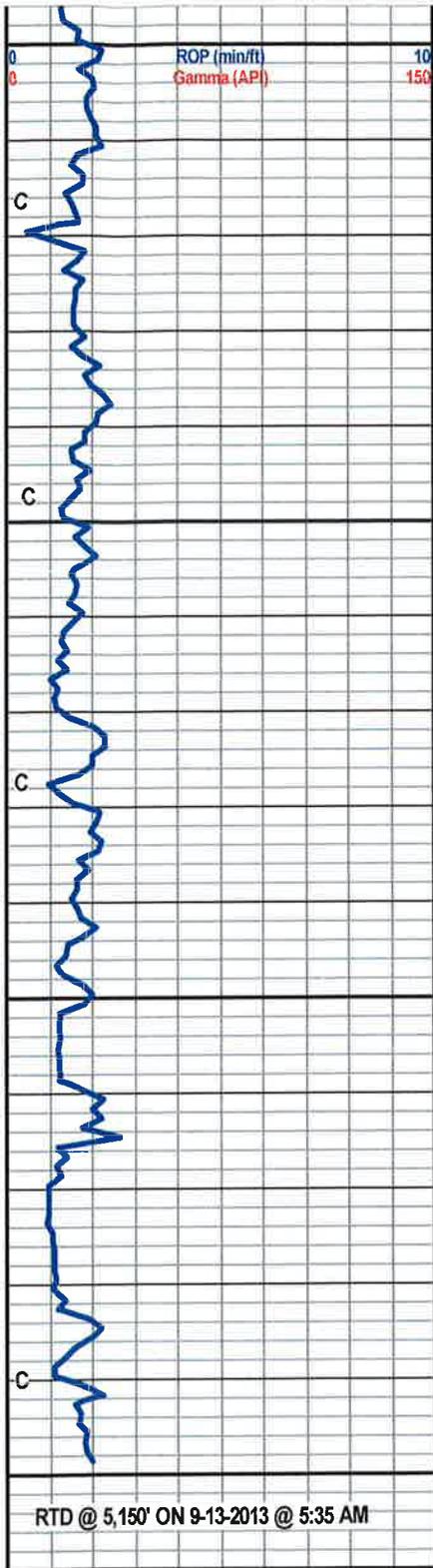
LS: AAB W/ABNDT CHRT & DOLO: GRN, FN-SUCR, FRM-FRI, GLAU'C, PP POR, TR DLL FLU, NO VIS STN, CUT, OR ODOR

DOLO: LT GRN-GRN, FN-SUCR, FRM, GLAU'C, CHRT, PP POR, TR DLL FLU, SLW RNG CUT FROM SELECT PCS, NO STN OR ODOR

DOLO: GRN WSM BRN & GRY, BRTL-HRD, GLAU'C, CHRT, TR FOSS, PP POR, TR DLL FLU, SLW RING CUT, FNT ODOR

DOLO: WHT-BRN, SUCR-FN, BRTL, ABNDT CHRT, GD PP POR, BRT FLU,





EXCLNT STRMG CUT, OIL STN,  
STRONG OIL ODOR

DOLO: WHT W/SM BRN, FN-SUCR,  
BRTL W/SM FRI, ABNDT CHRT, PYR,  
PP W/SM INTR XLN POR, BRT FLU,  
OIL STN, GD STRMG CUT, OIL  
ODOR

DOLO: AAB W/SLW RING CUT & FNT  
ODOR

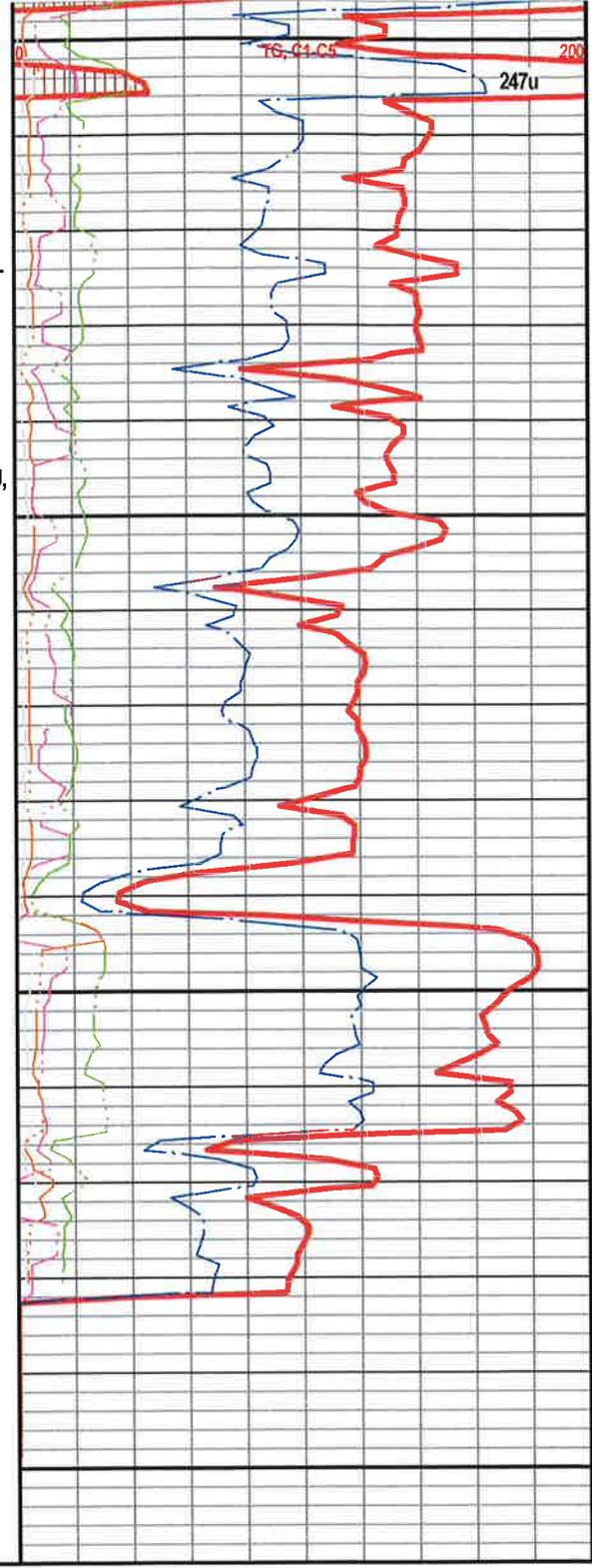
LS: WHT W/SM BRN, XLN-FN W/SM  
SEMI CHKY, BRTL-HRD W/SM  
SFT/FRI, PYR, PP POR I.P., DLL FLU,  
NO VIS STN, CUT, OR ODOR

LS: WHT-OFF WHT-GRN-LT GRY,  
XLN-CHKY-FN, SFT-BRTL-HRD,  
GLAU'C I.P., DOLO'C I.P., WHT FLU,  
NO VIS STN, CUT, OR ODOR

LS: AAB

LS: LT GRY-GRY GRN, FN, FRM  
W/SM SFT, DOLO'C, PP POR, NO  
FLU, STN, CUT, OR ODOR

CIRC 45 MINS, SHORT TRIP TO  
4,672', CIRC 1.5HR, SURVEY, TOH  
FOR ELOGS



RTD @ 5,150' ON 9-13-2013 @ 5:35 AM