

OPERATOR: MARATHON OIL COMPANY

SPUD DATE: 01/04/09

WELL: 596-31C-22

TD DATE: 01/09/09

LOCATION: SEC. 31, T5S, R96W

DATES LOGGED: 01/04/09 - 01/09/09

COUNTY: GARFIELD

DEPTHS LOGGED: 2440' - 9742'

STATE: COLORADO

LOGGERS: MARK MCLAUGHLIN

SPOT: 2177' FSL x 608' FWL

DRILLING FLUID: LSND

ELEVATION: G: 8521' KB: 8545'

DRILLING RIG: H&P 324

FIELD: GRAND VALLEY

BOTTOM HOLE: CCNAD27, X:1235222, Y:644001.7
























































LOG TYPE: MUD LOG

SCALE: 1:240 (5.0 INCH/100 FT)

REMARKS:

API# 05-045-16028-0000

LITHOLOGIES

	SANDSTONE		SILTSTONE		SHALE		COAL		BENTONITE
	LIMESTONE		DOLOMITE		ANHYDRITE		CHERT		SALT
	CONGLOMERATE		TUFF		ALLUVIUM		METAMORPHIC		GLACIAL TILL
	DARK CHERT		WELDED TUFF		ARGILLACEOUS LIMESTONE		LIME MUDSTONE		CRYSTALLINE LIMESTONE
	LIME BOUNDSTONE		LIME GRAINSTONE		LIME PACKSTONE		LIME WACKESTONE		DOLOMITIC LIMESTONE
	CALCAREOUS DOLOMITE		ARGILLACEOUS DOLOMITE		DOLOMITIC MUDSTONE		CRYSTALLINE DOLOMITE		DOLOMITIC BOUNDSTONE
	DOLOMITIC GRAINSTONE		DOLOMITIC PACKSTONE		DOLOMITIC WACKESTONE		SHALY SANDSTONE		CLAYSTONE
	GRAY CLAYSTONE		COLOR CLAYSTONE		VOLCANICS		BRIGHT COAL		INTERMEDIATE COAL
	DULL COAL		COALY SHALE		NON COAL		GRANITE		BRECCIA
	MARL		DOLOMITIC MARL		CARBONACEOUS SHALE		CHALK		GYPSUM
	UNABLE TO INTERPRET		NO SAMPLE		BLACK SHALE		COLOR SHALE		GRAY SHALE

CH TV

CH V



CORE RECOVERED



CORE LOST



DST INTERVAL



ROTATING



SLIDING



CANISTER

ABBREVIATIONS

CB - CORE BIT

CG - CONNECTION GAS

CO - CIRCULATE OUT

SPM - STROKES/MIN

DST - DRILL STEM TEST

DTG - DOWNTIME GAS

LAT - LOGGED AFTER TRIP

TG - TRIP GAS

NR - NO RETURNS

NS - NO SAMPLE

PP - PUMP PRESSURE

WOB - WEIGHT ON BIT

RPM - REVOLUTIONS/MIN

RR - RE-RUN

SLM - STEEL LINE MEASURE

ROP MIN/FT

C1 PPM

DIFP PSI

WOB KLBS

C2 PPM

TOTAL GAS (UNITS)

C3 PPM

C4 PPM

RPM RPM

C5 PPM

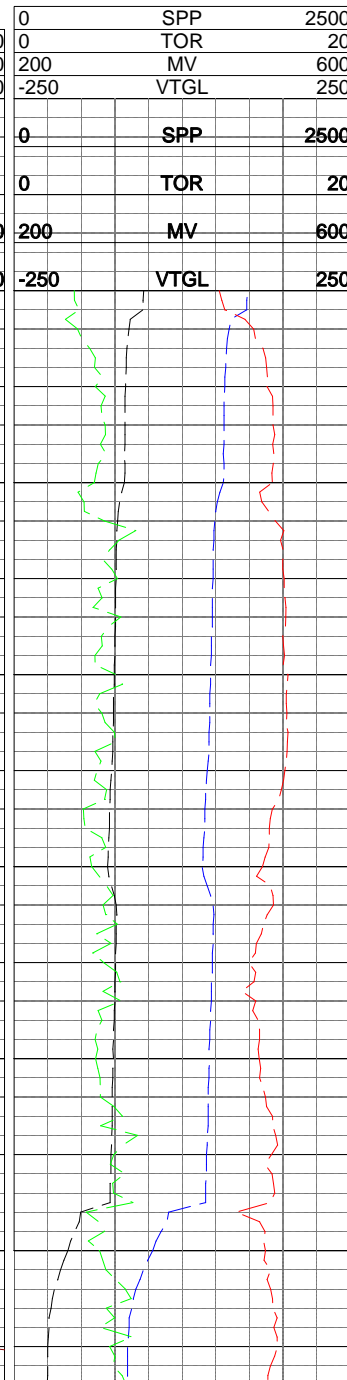
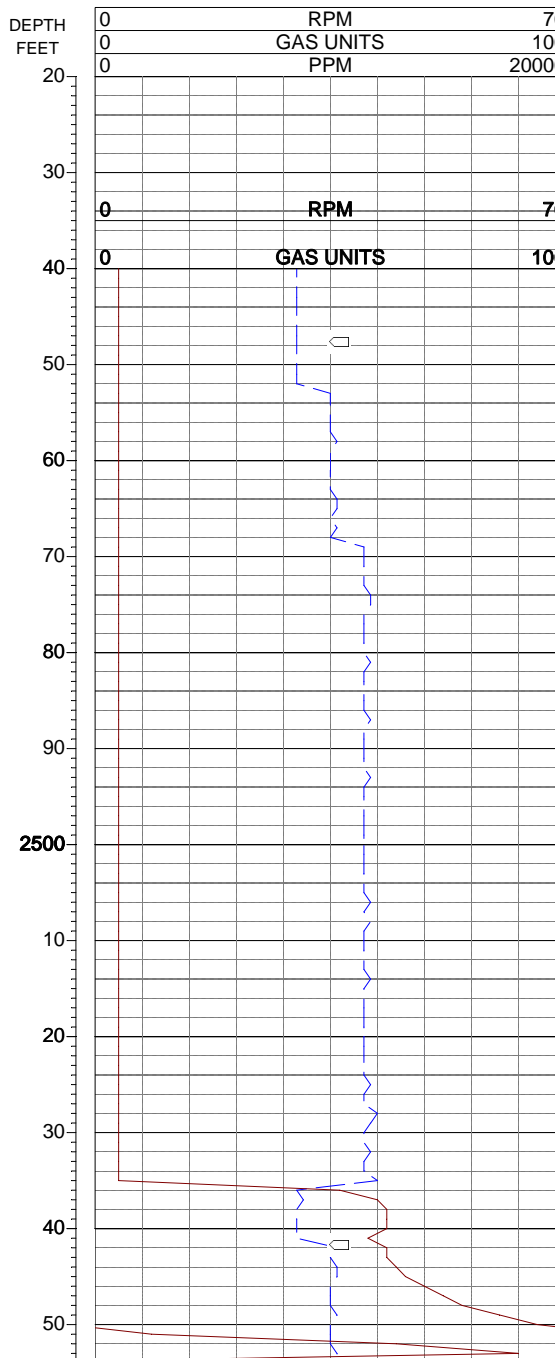
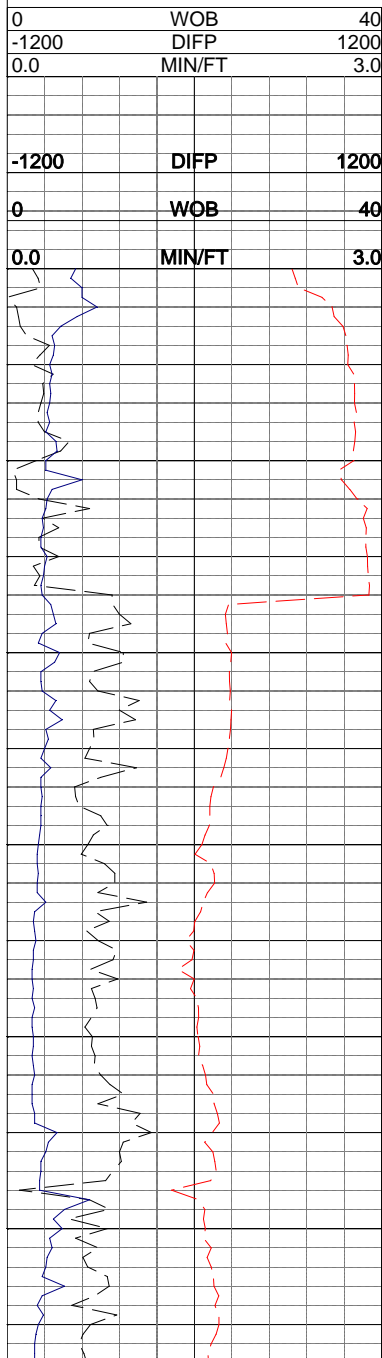
VTGL BARRE

MV BBL

TOR UNITS

SPP PSI

CO2 PPM



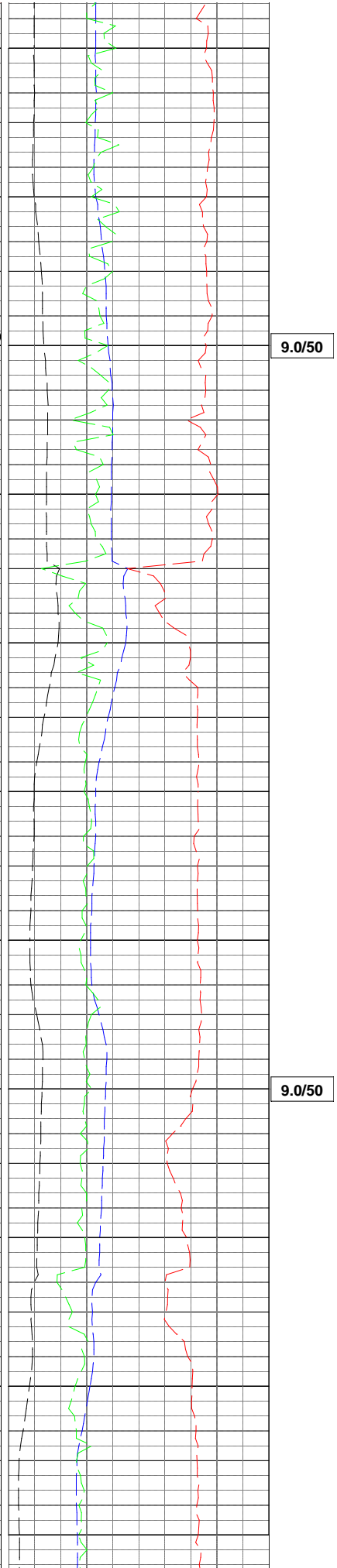
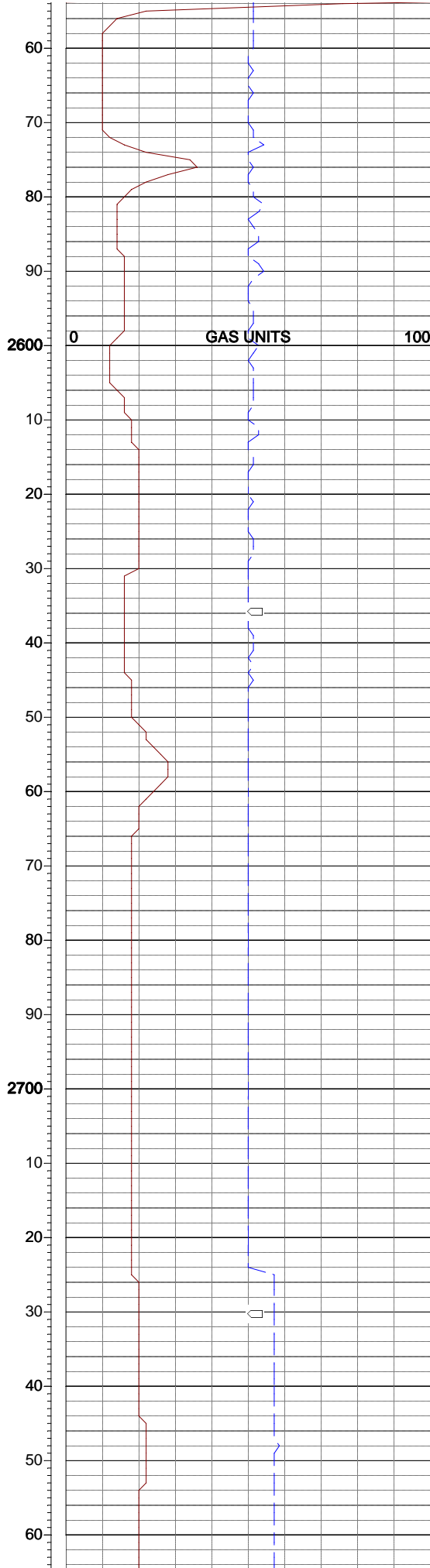
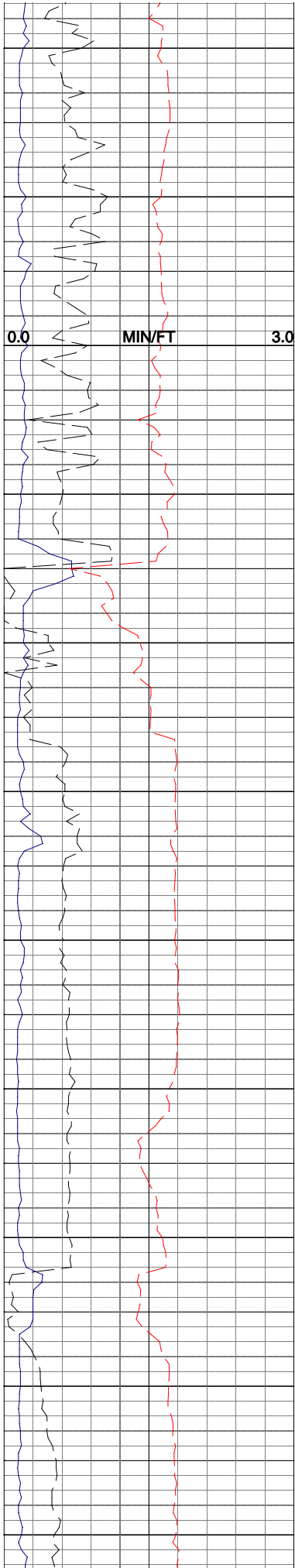
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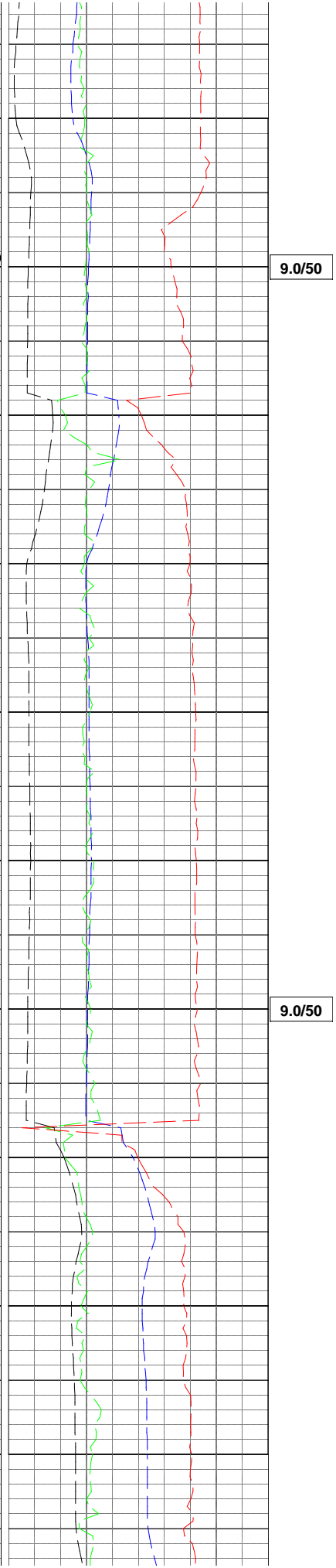
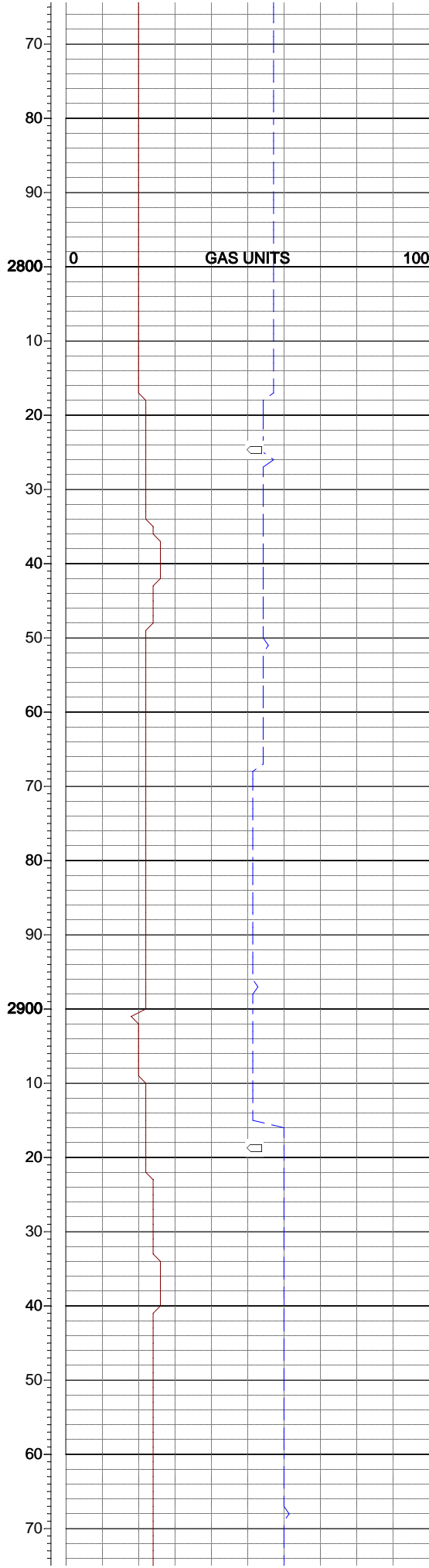
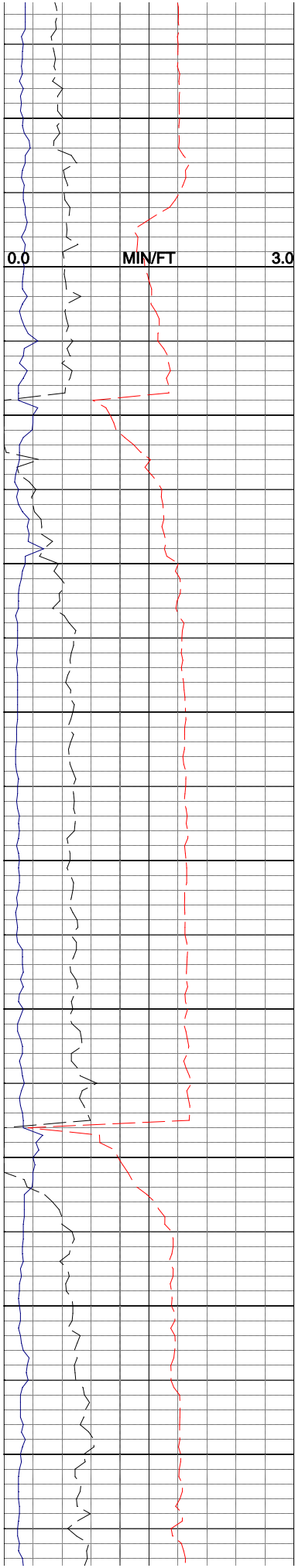
PASON SYSTEMS RIGG
AND LOGGING ON
01/04/09 AT 7:30pm

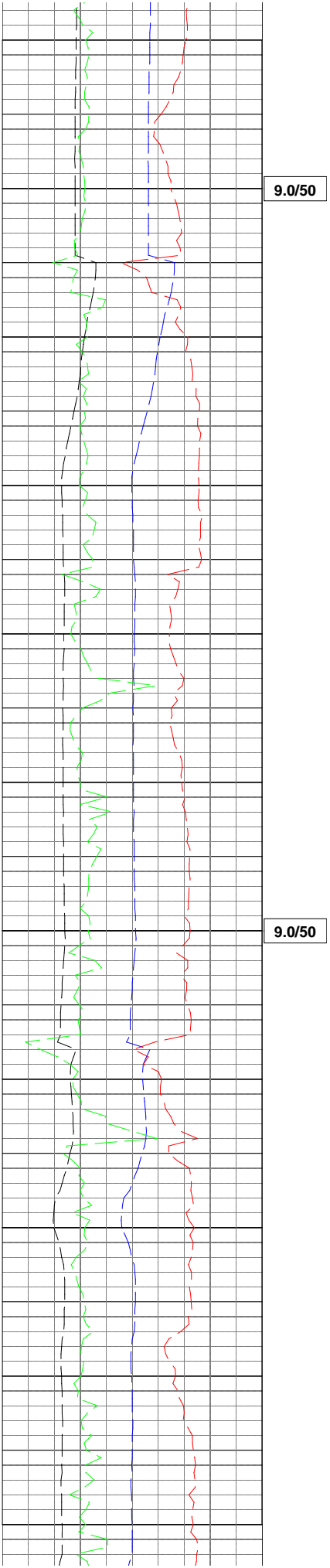
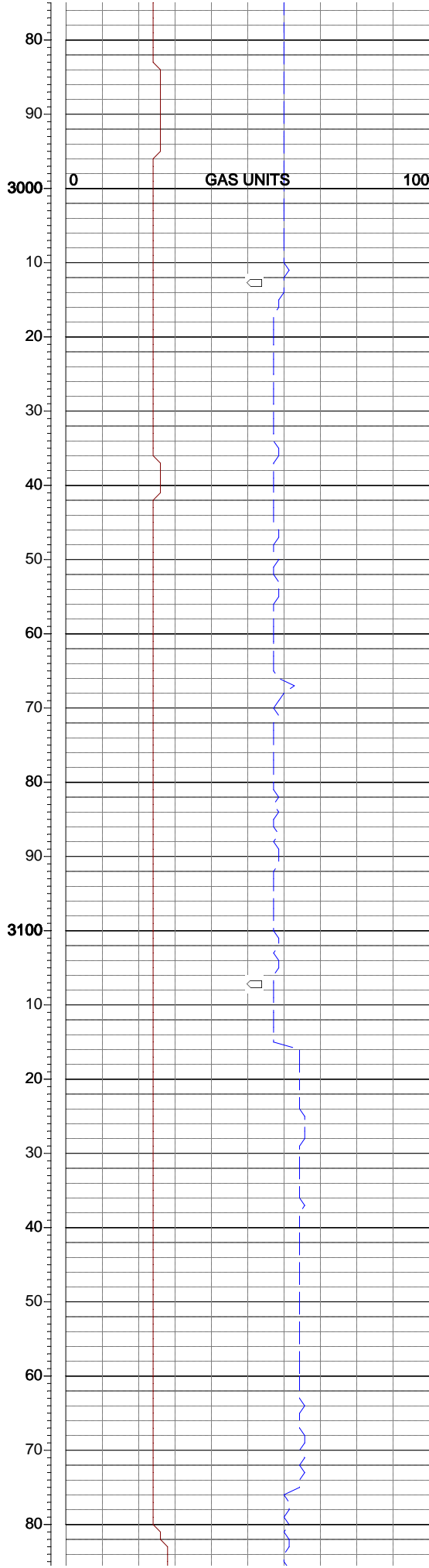
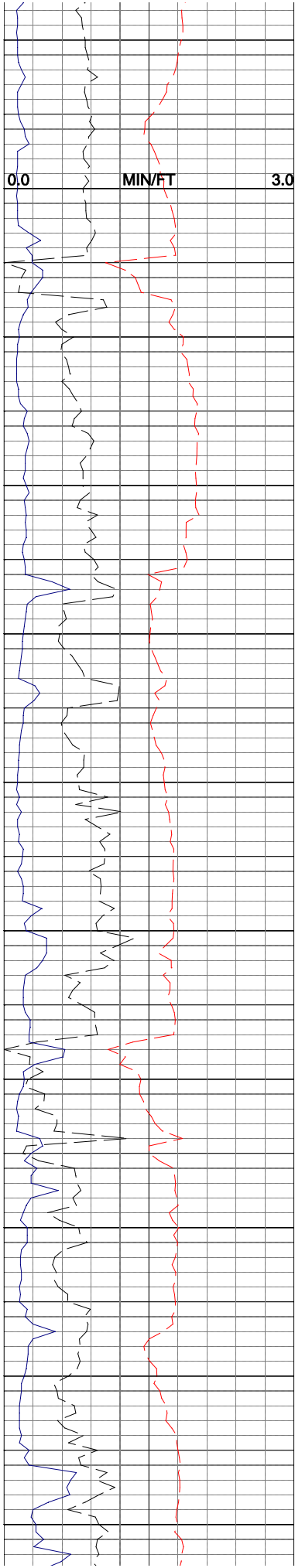
TVD VS. MD = 21'

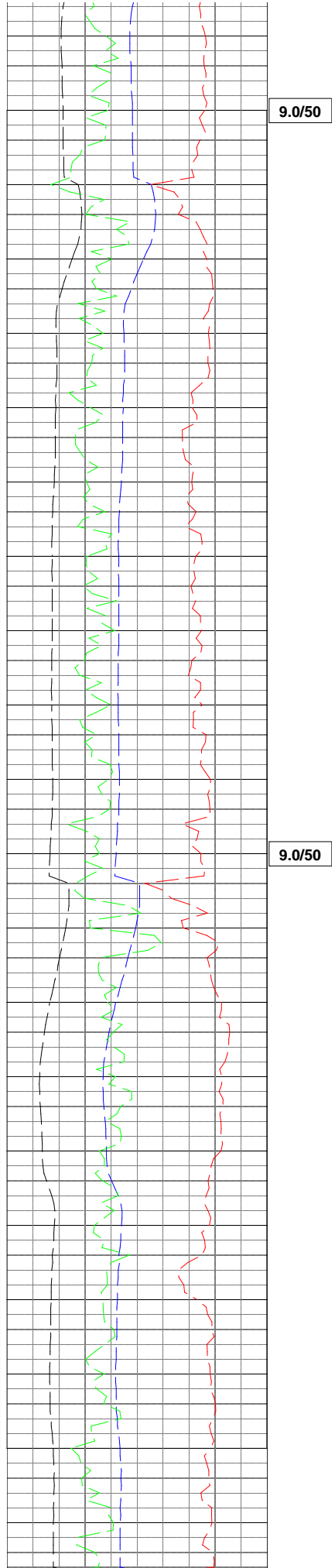
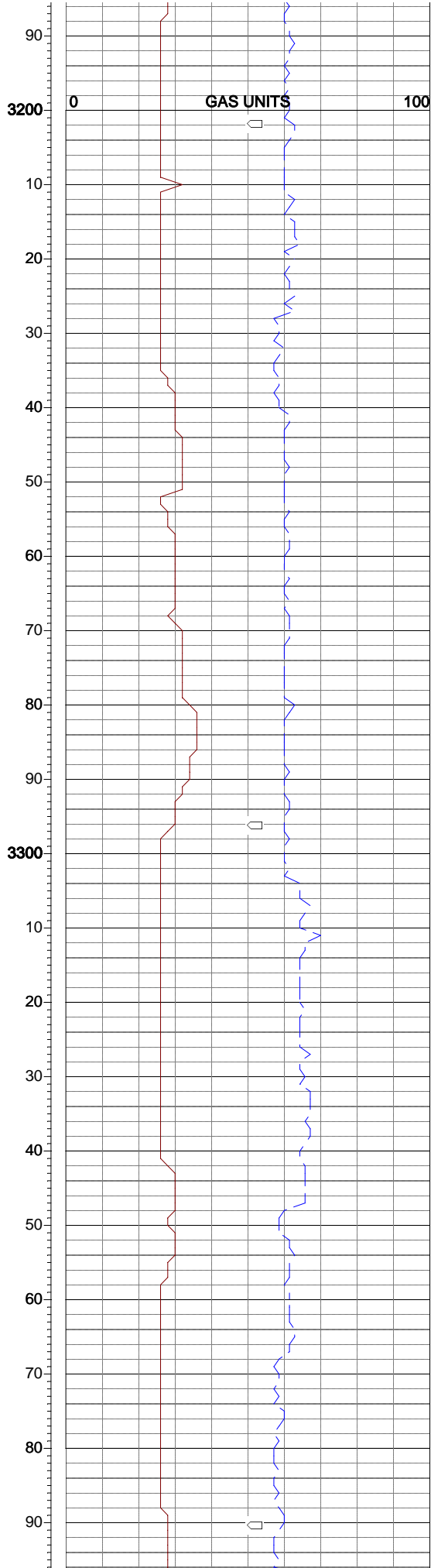
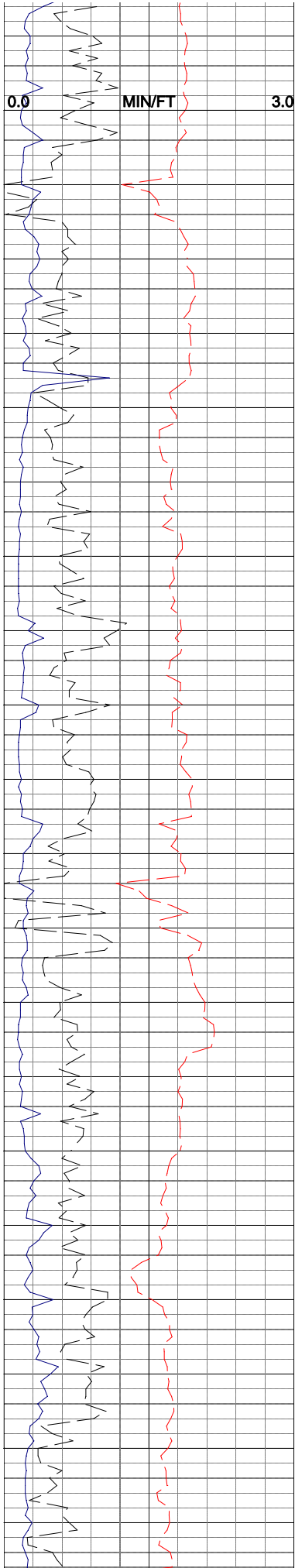
BIT #3
8 3/4"
SECURITY
FMX555Z
IN AT 2438'

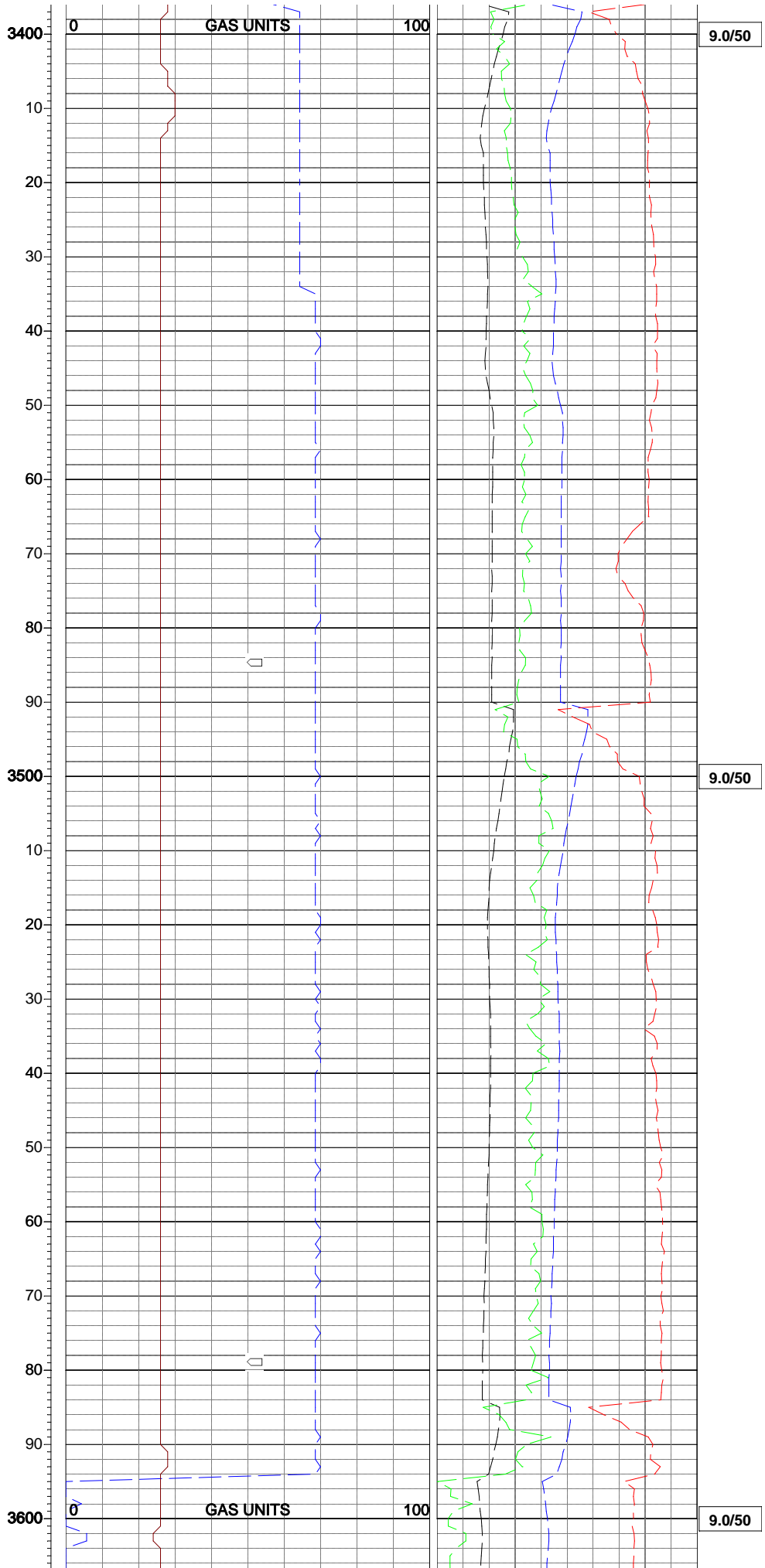
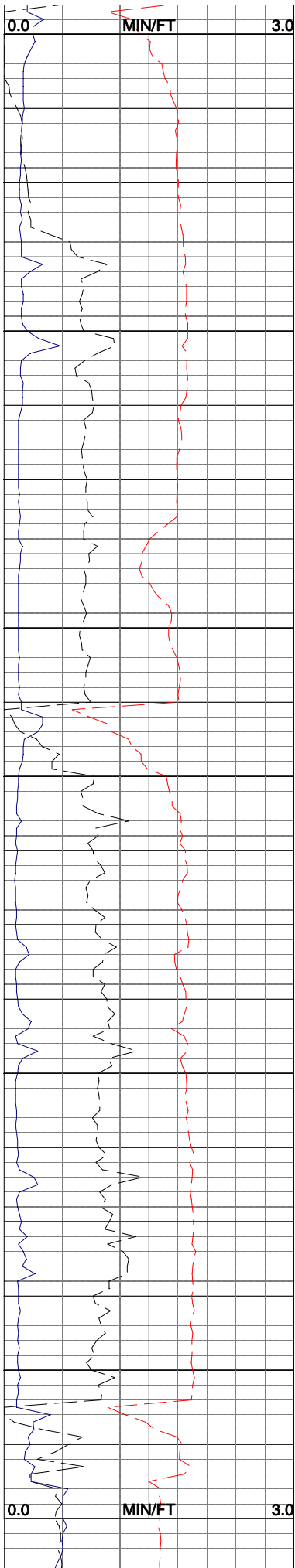
9.0/50

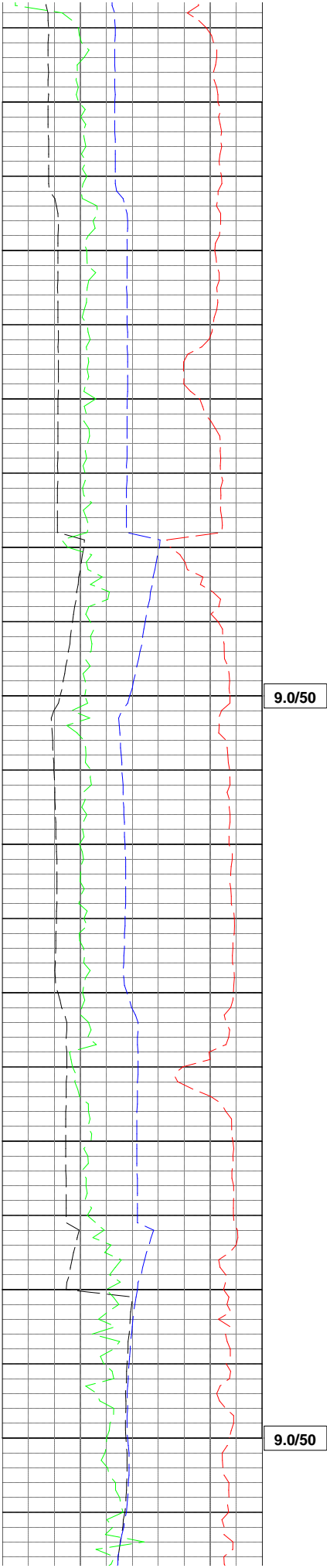
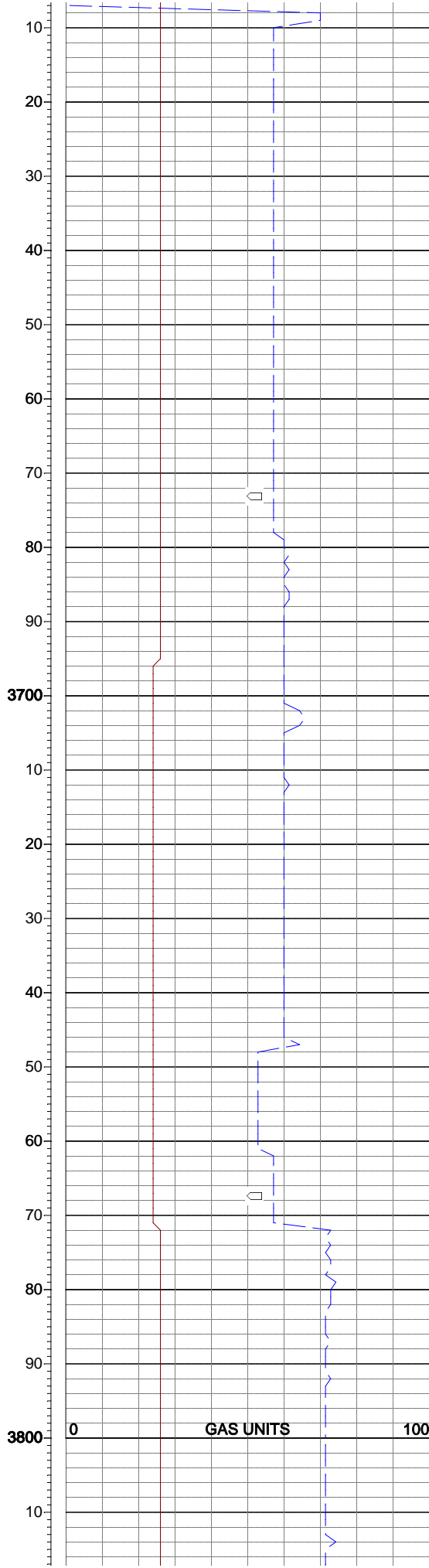
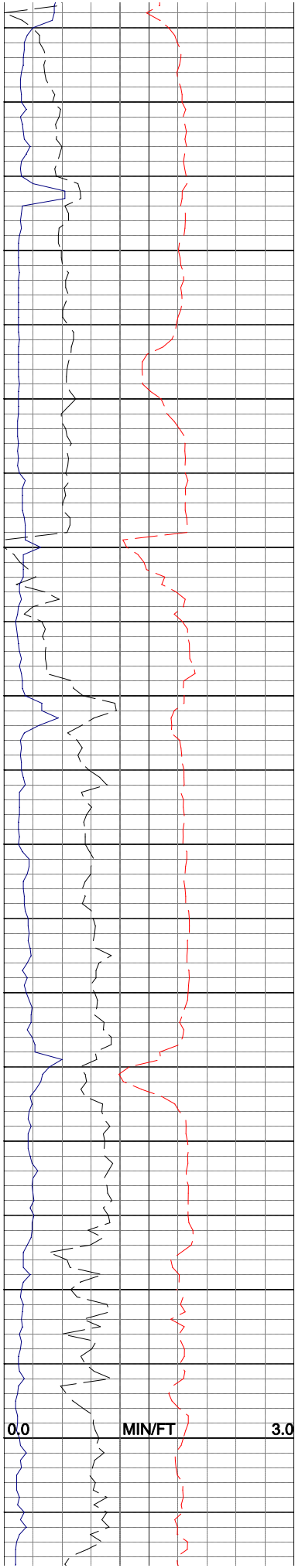


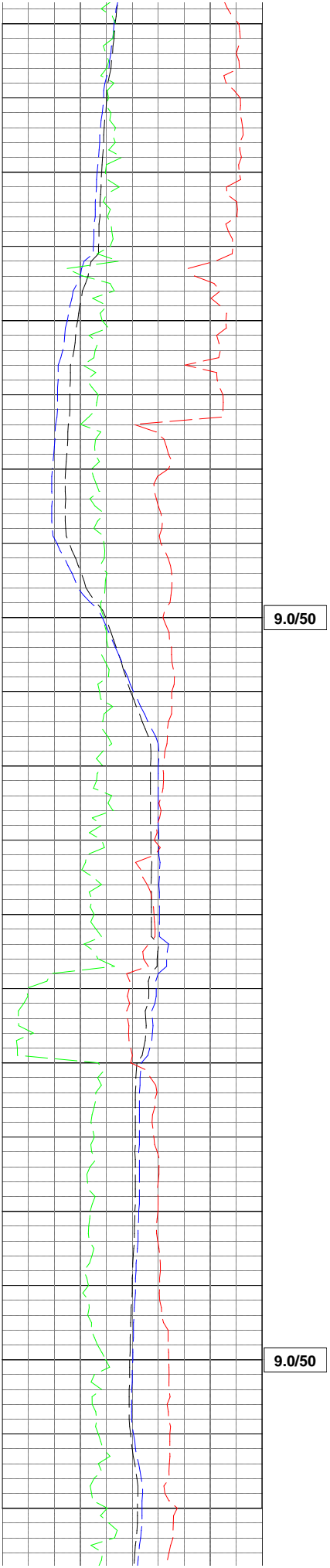
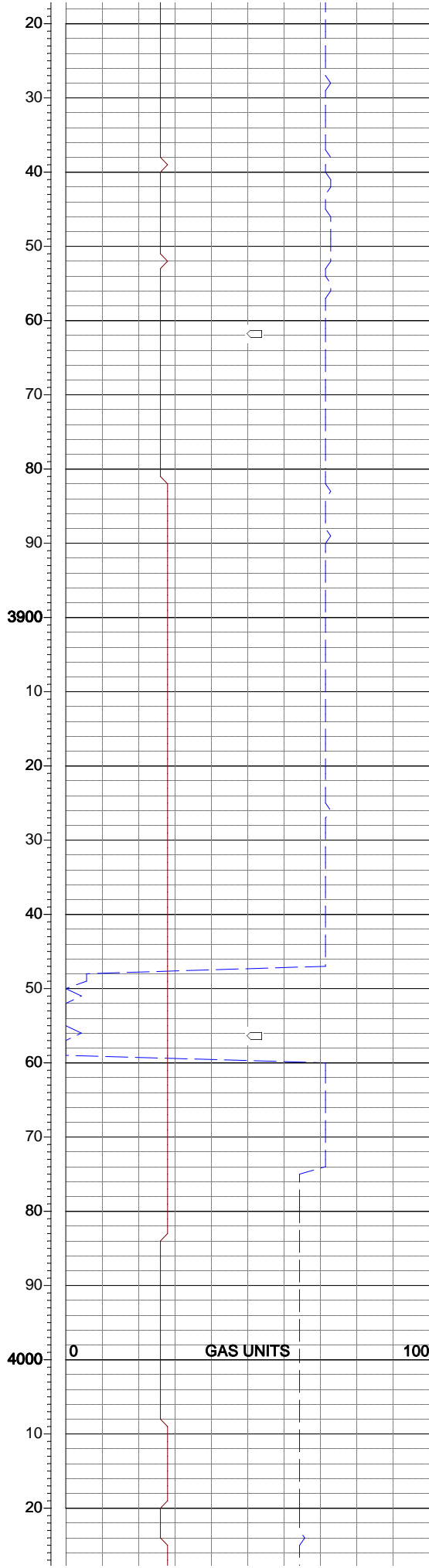
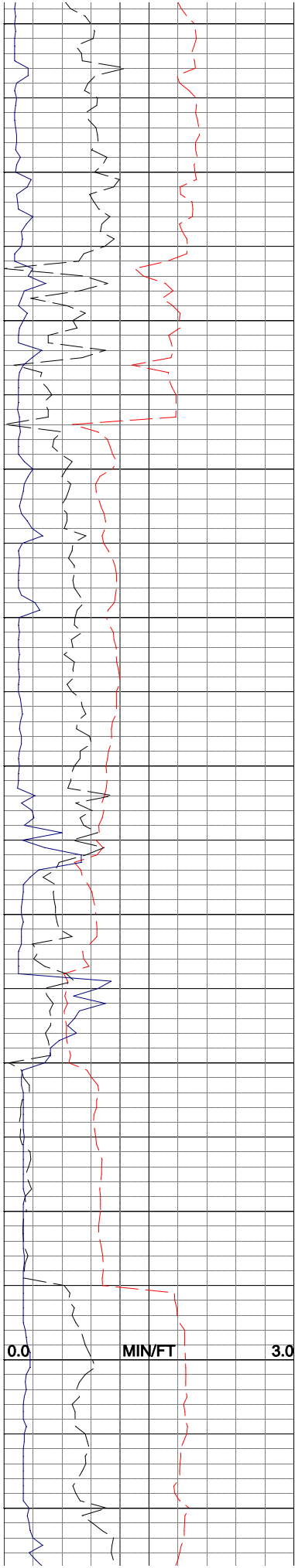


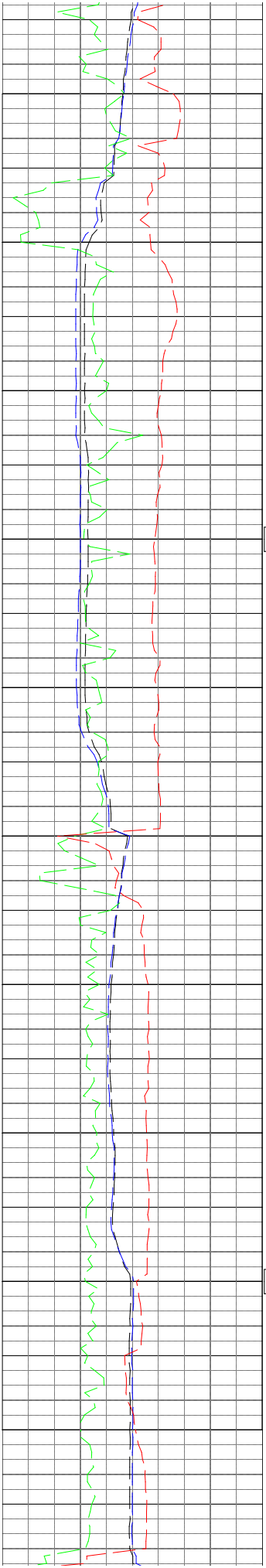
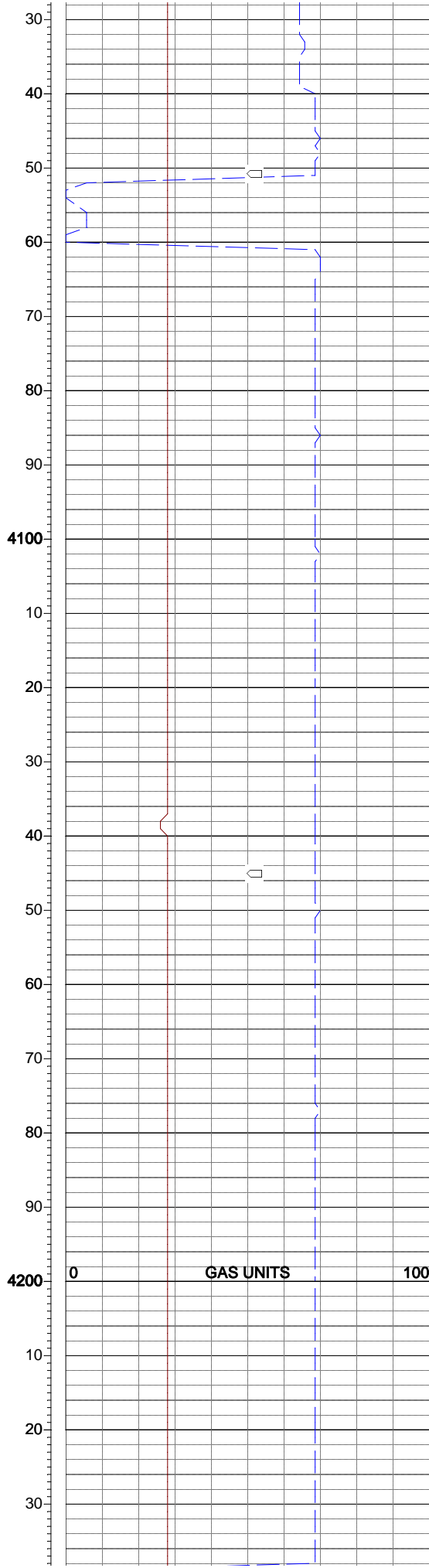
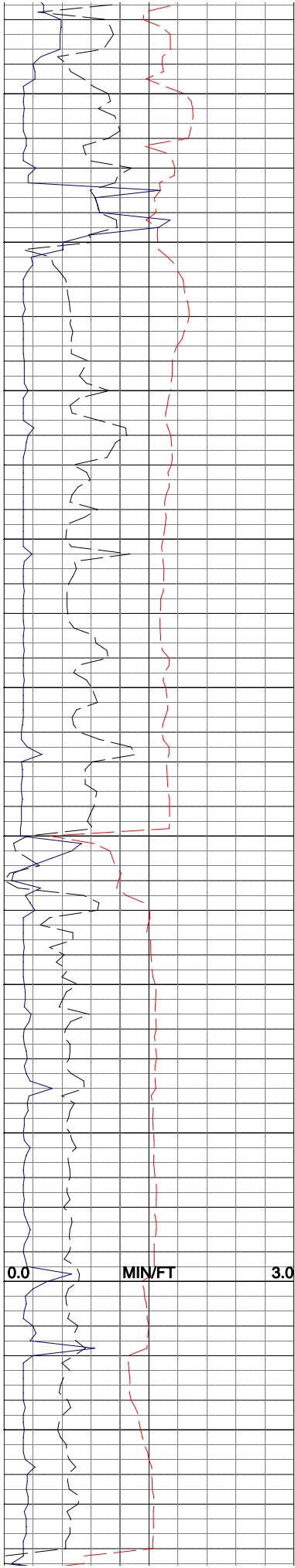






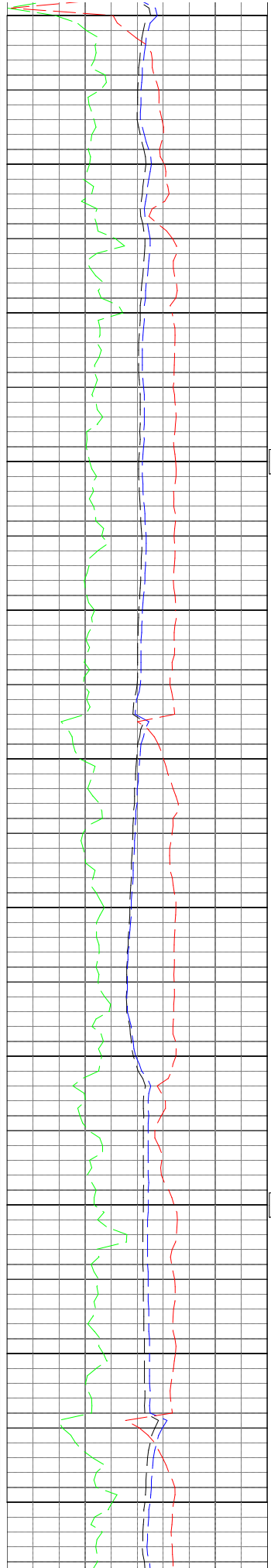
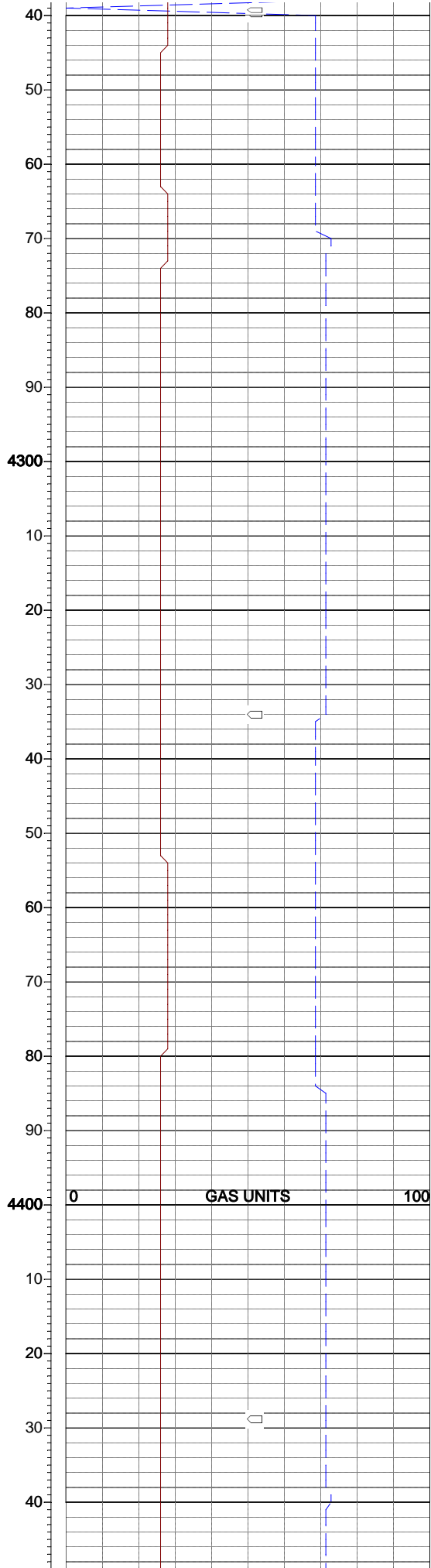
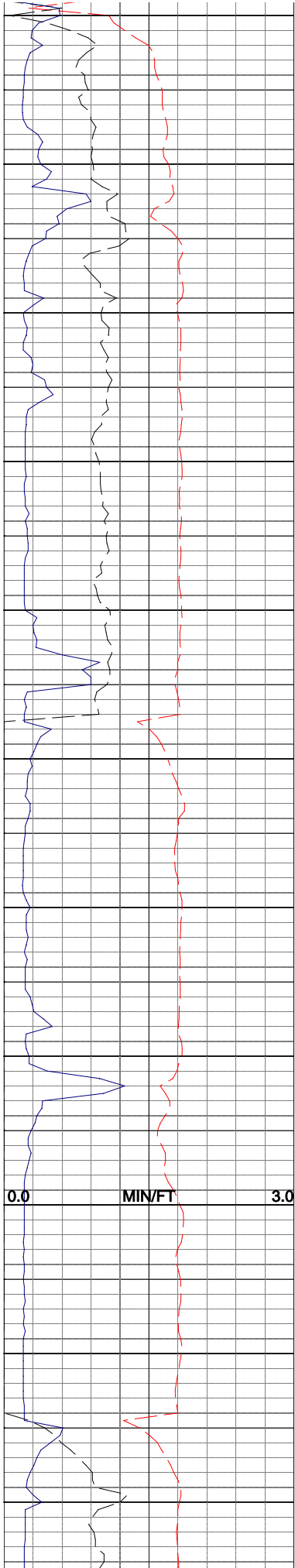






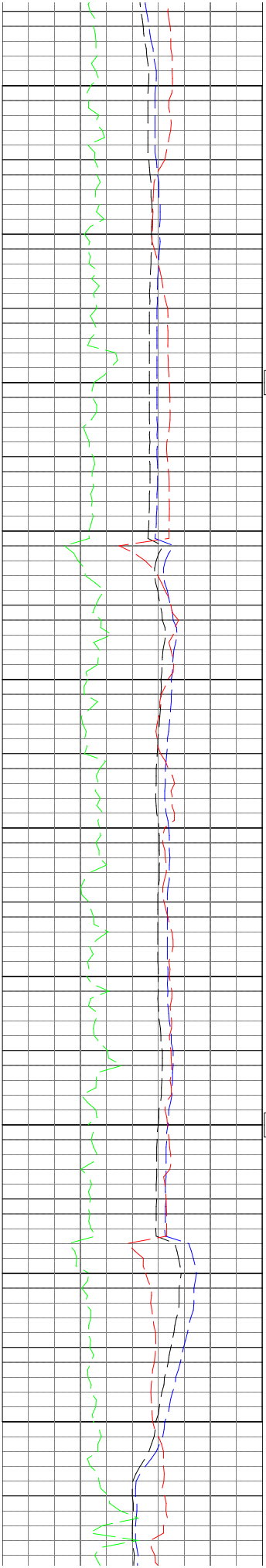
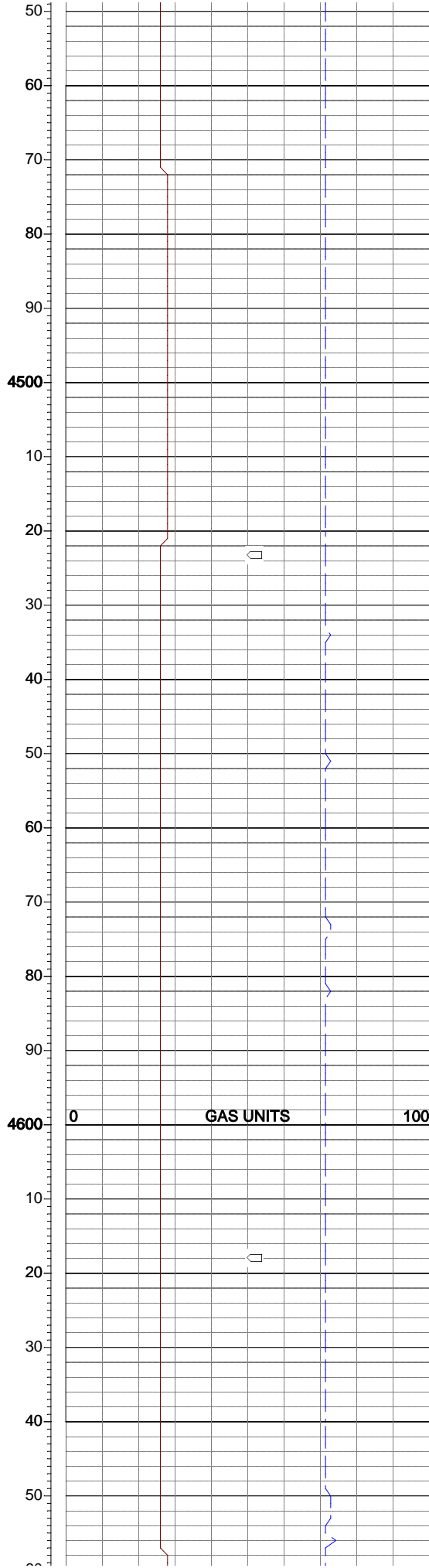
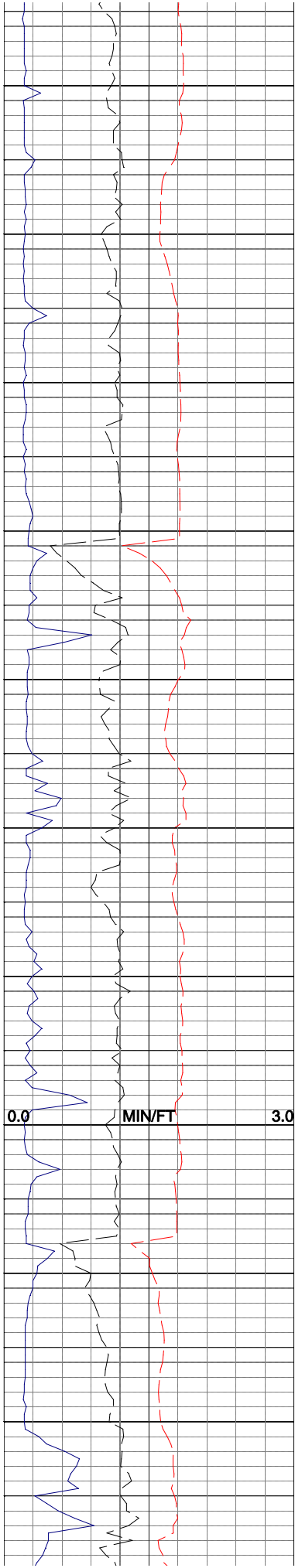
9.0/50

9.0/50



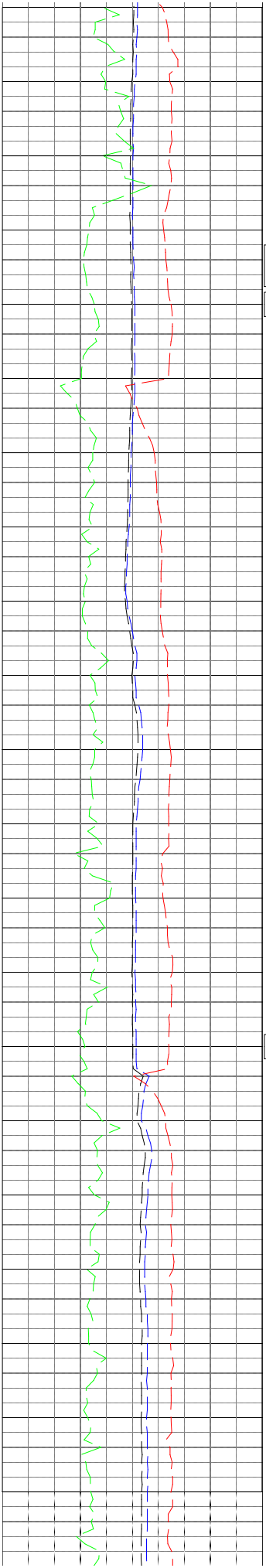
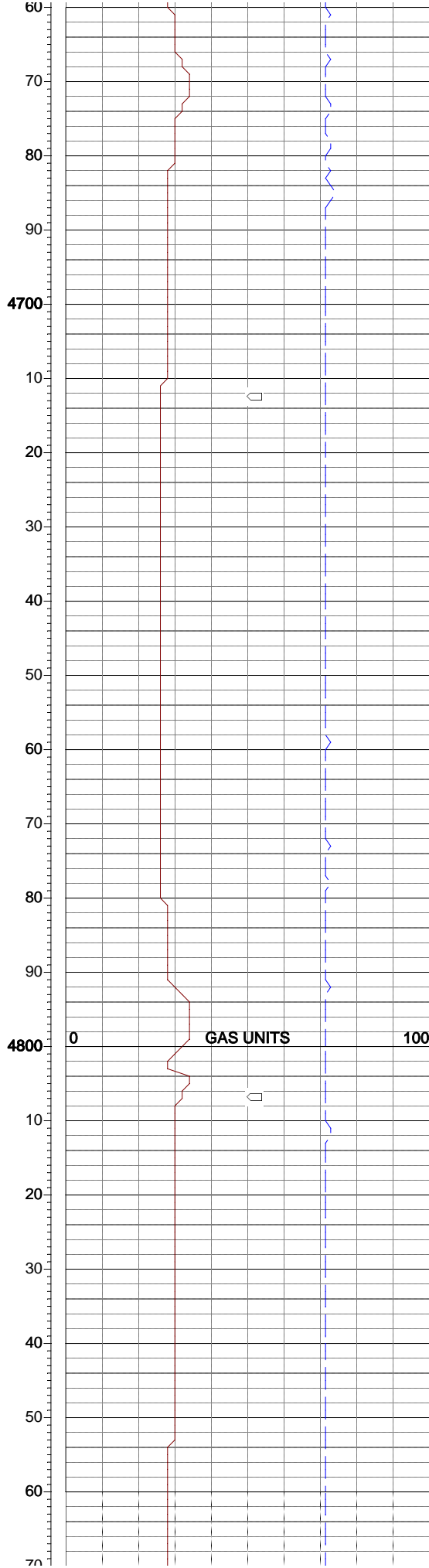
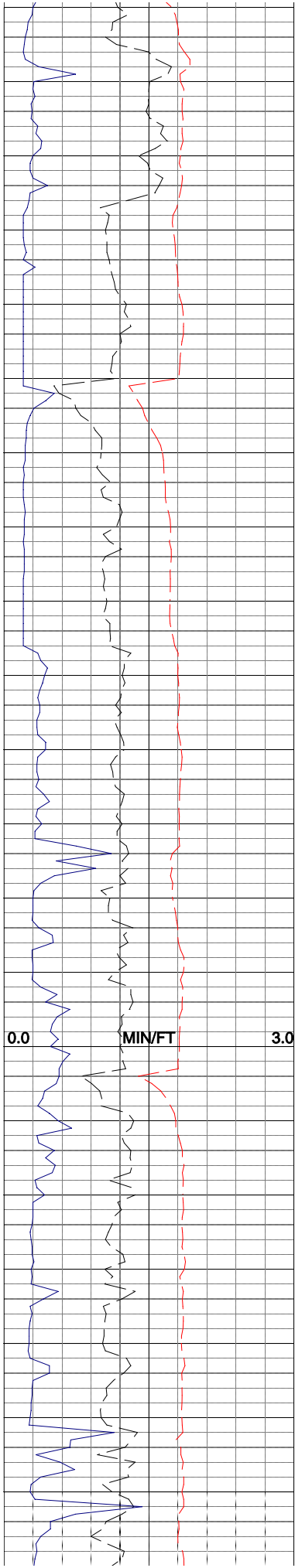
9.2/58

9.2/58



9.2/58

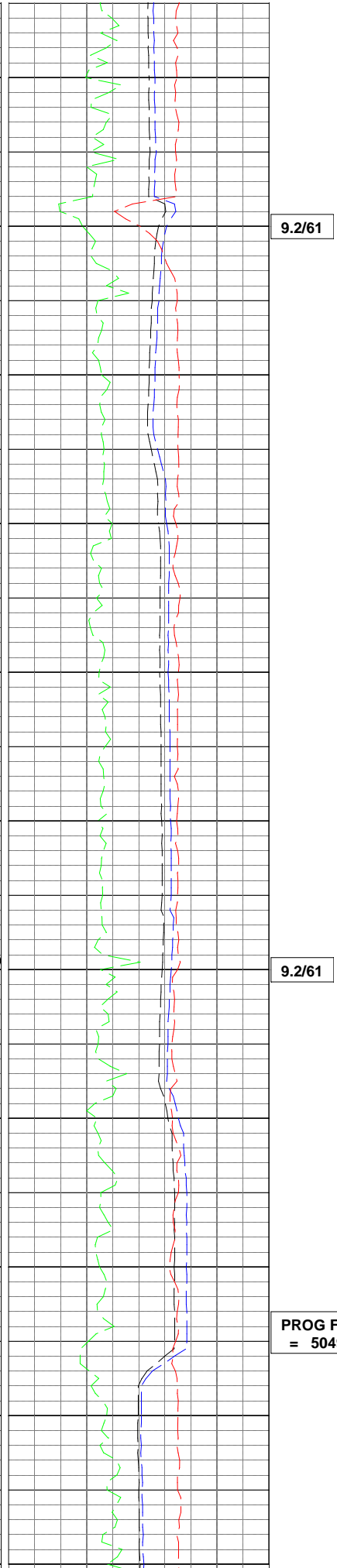
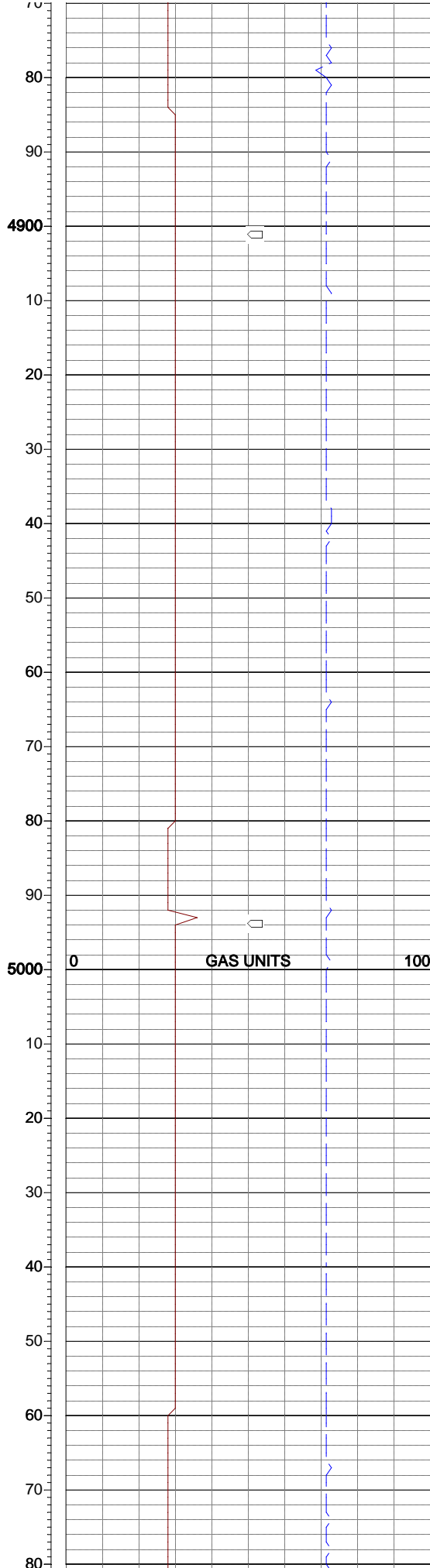
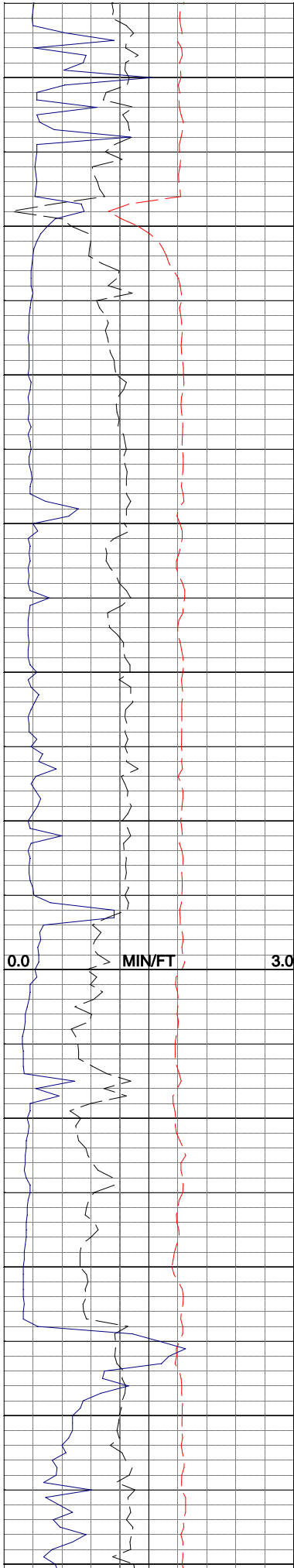
9.2/57



PROG "G" SAND
= 4695' MD

9.2/61

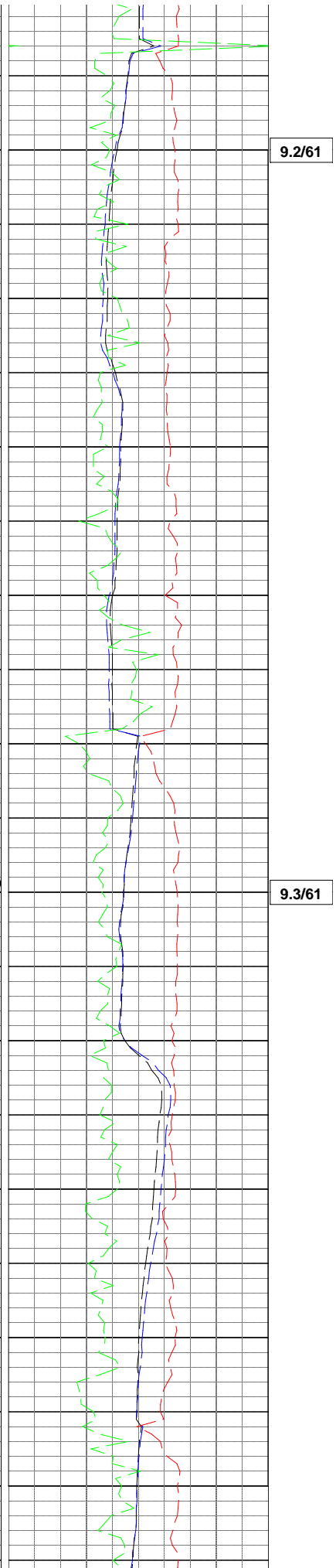
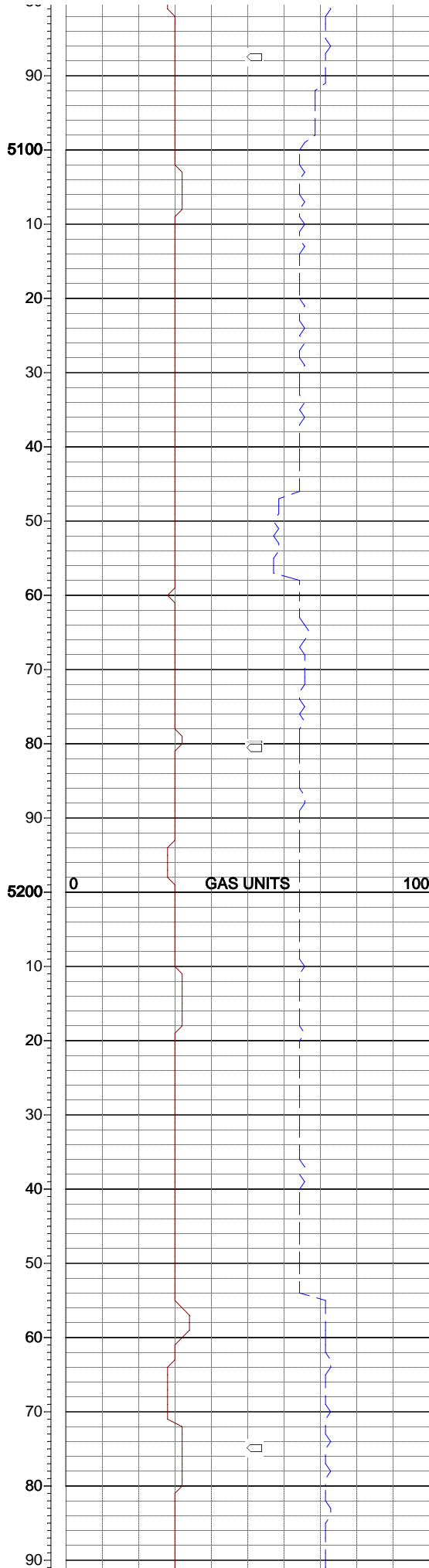
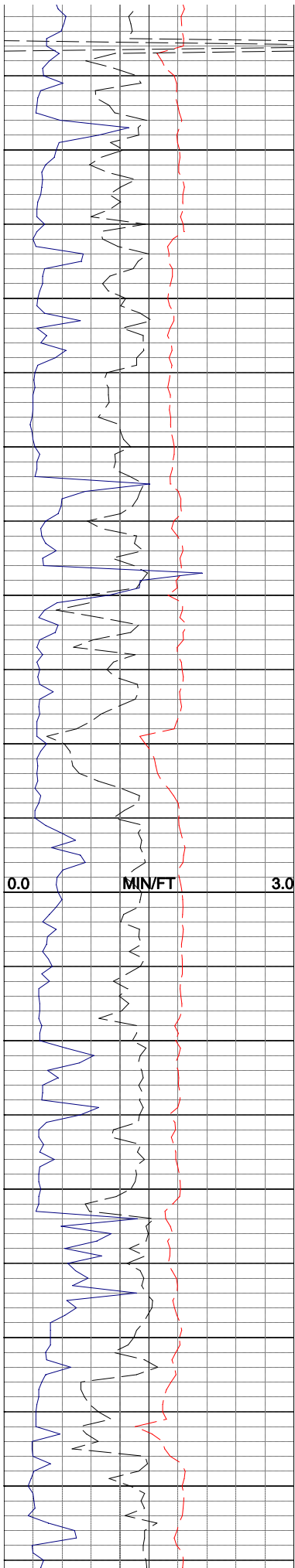
9.2/61



9.2/61

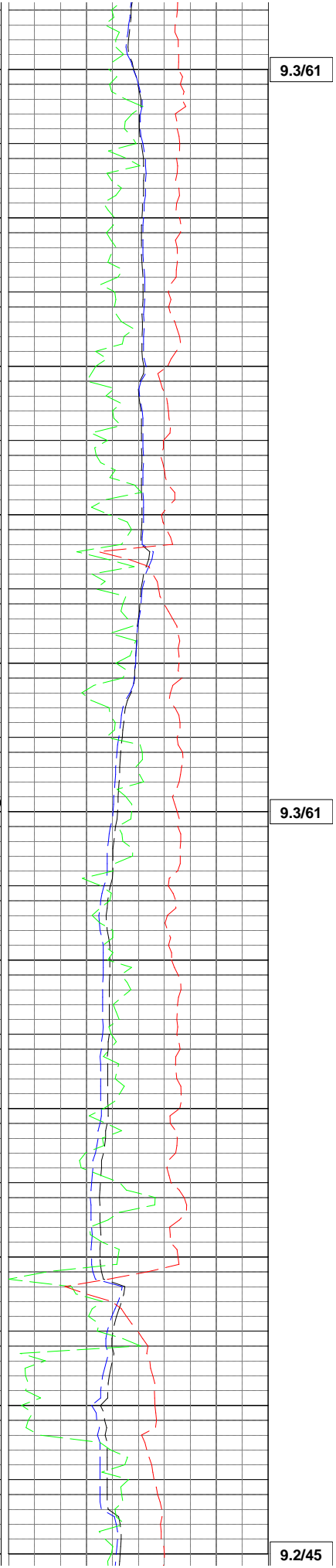
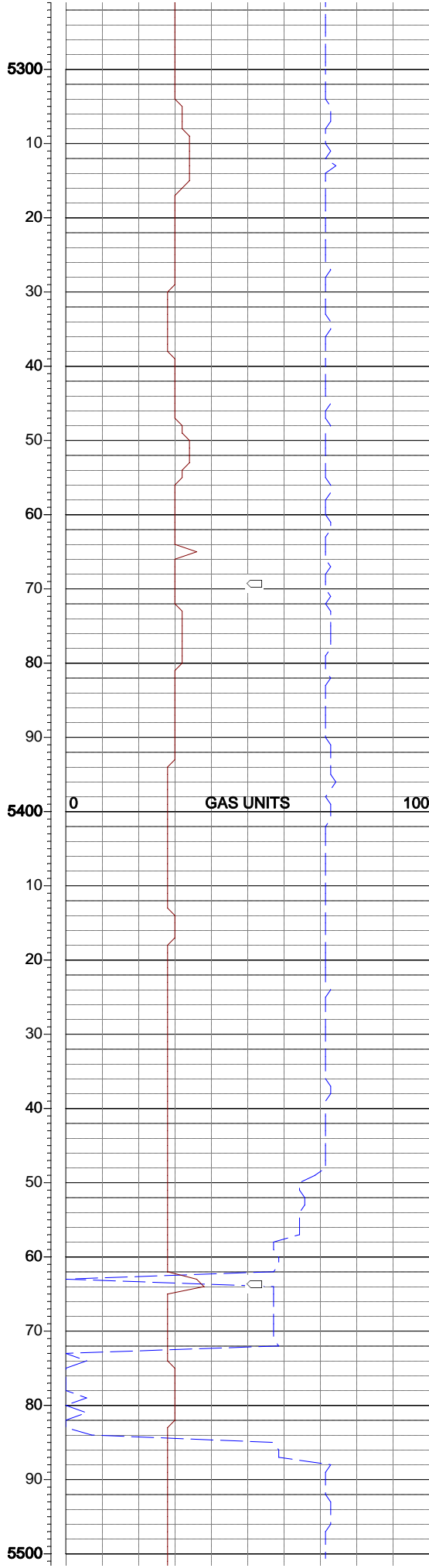
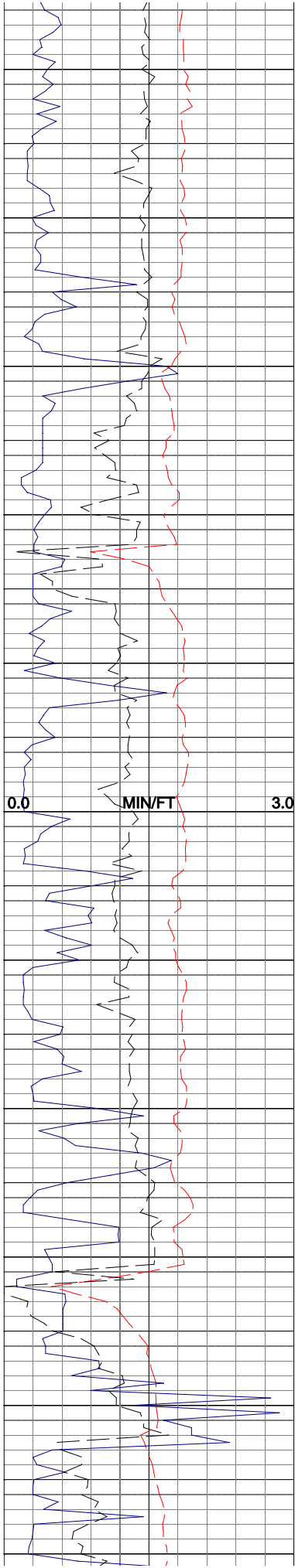
9.2/61

PROG FORT UNION
= 5049' MD



9.2/61

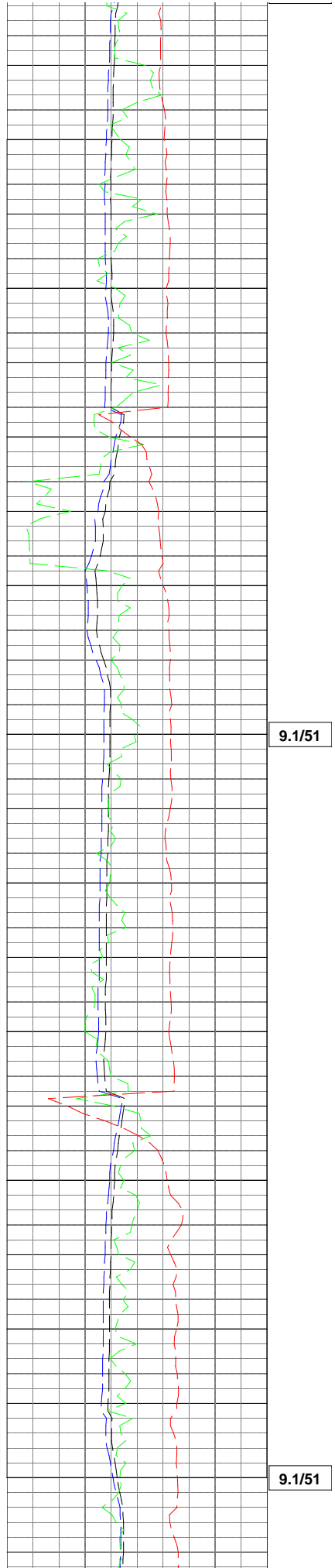
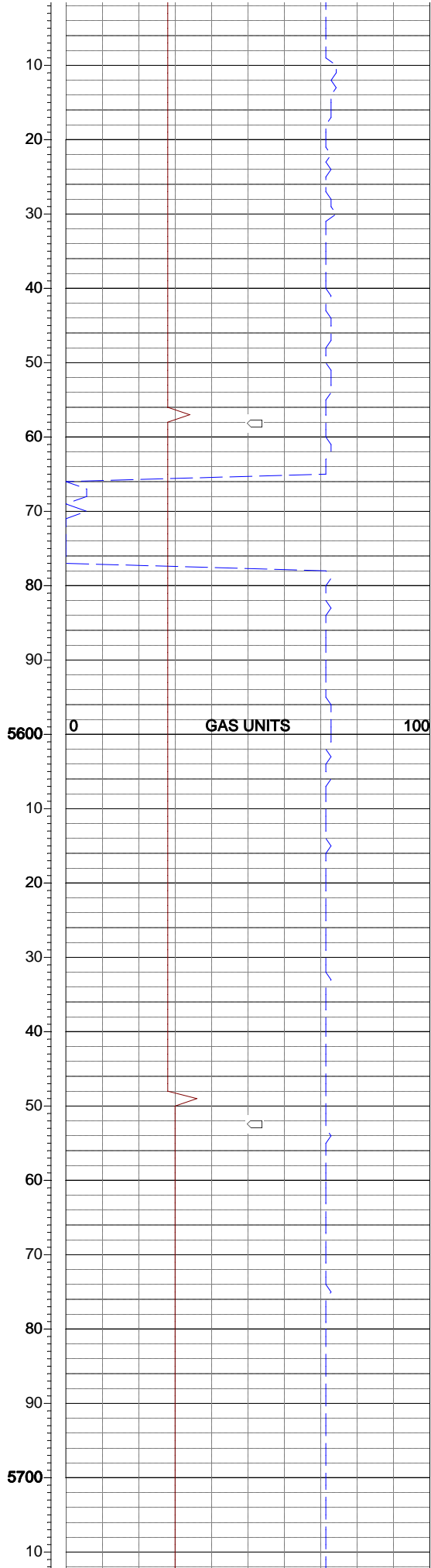
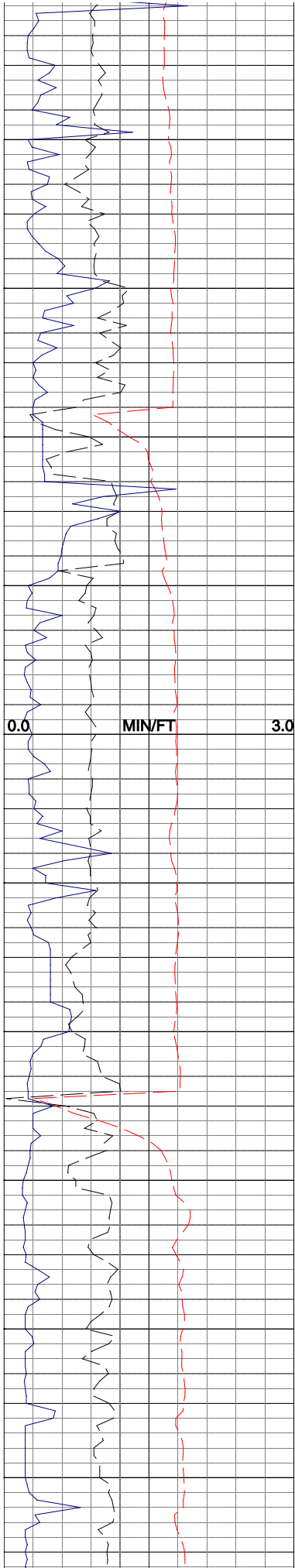
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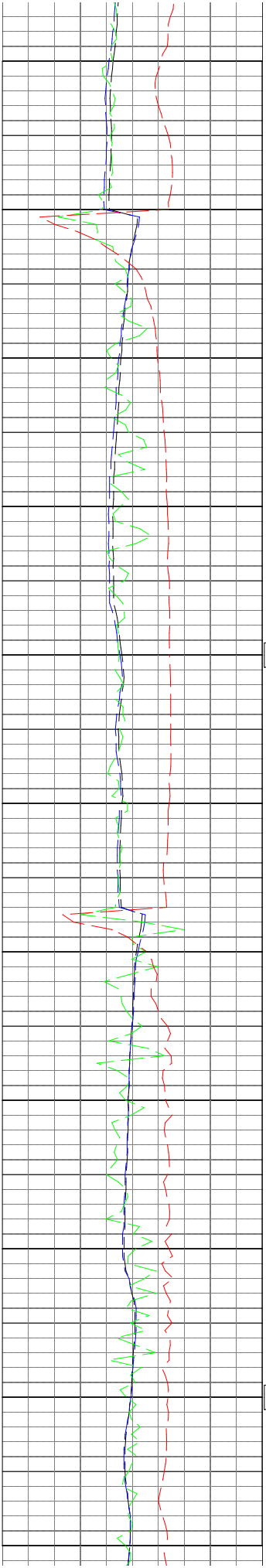
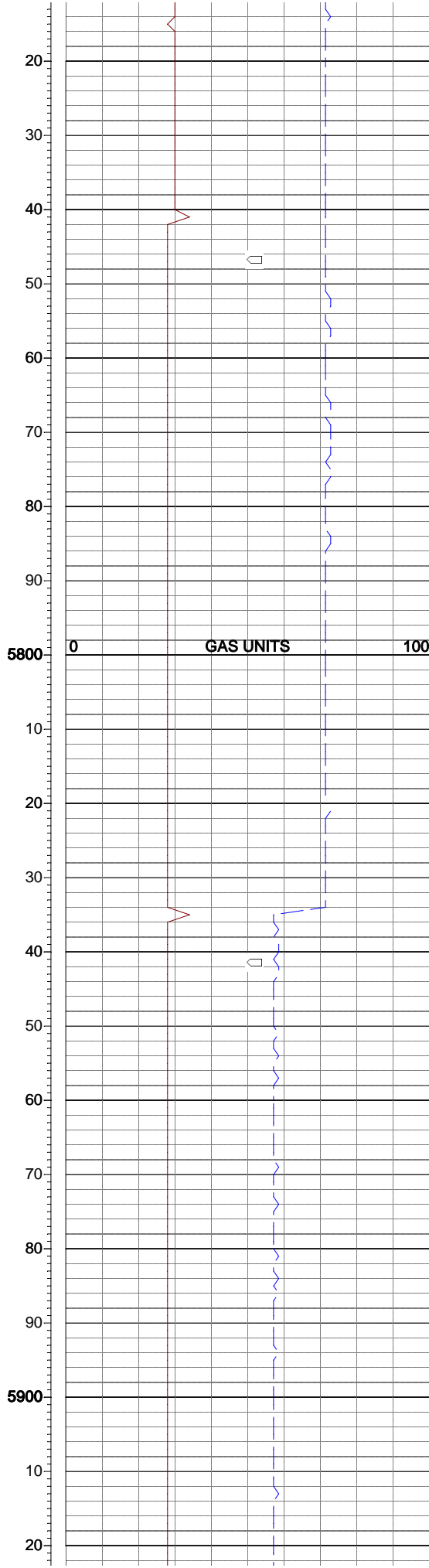
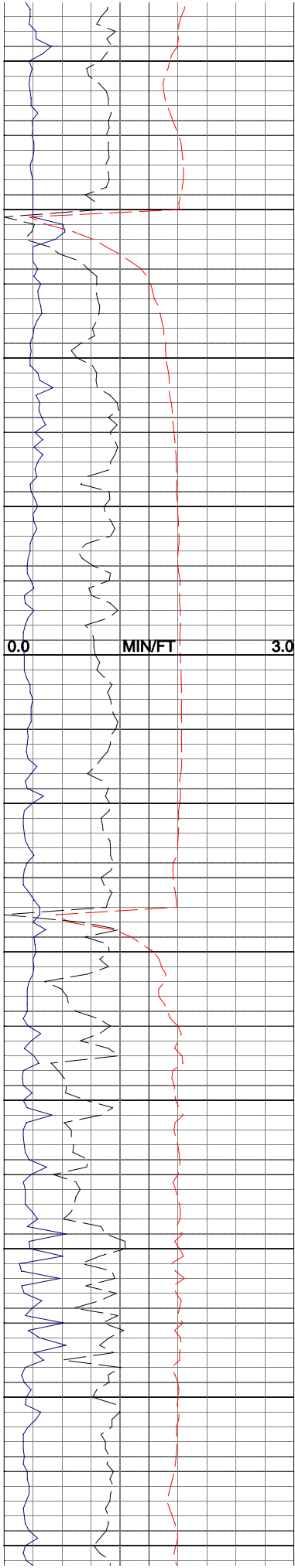


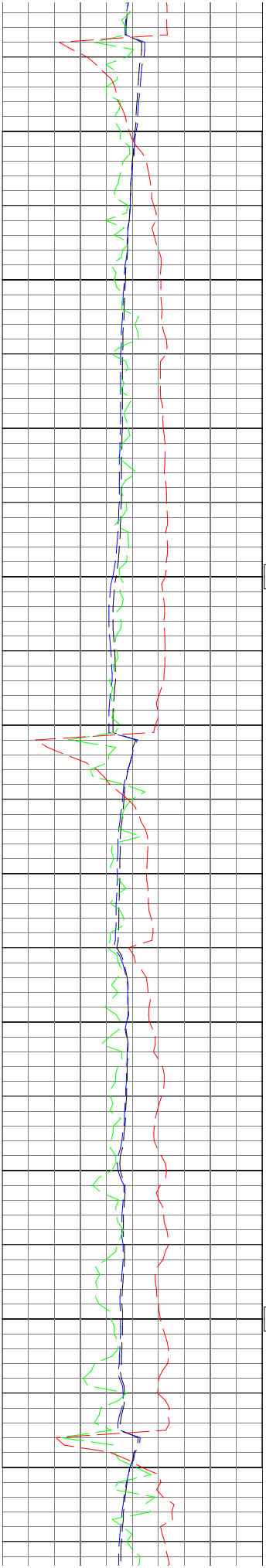
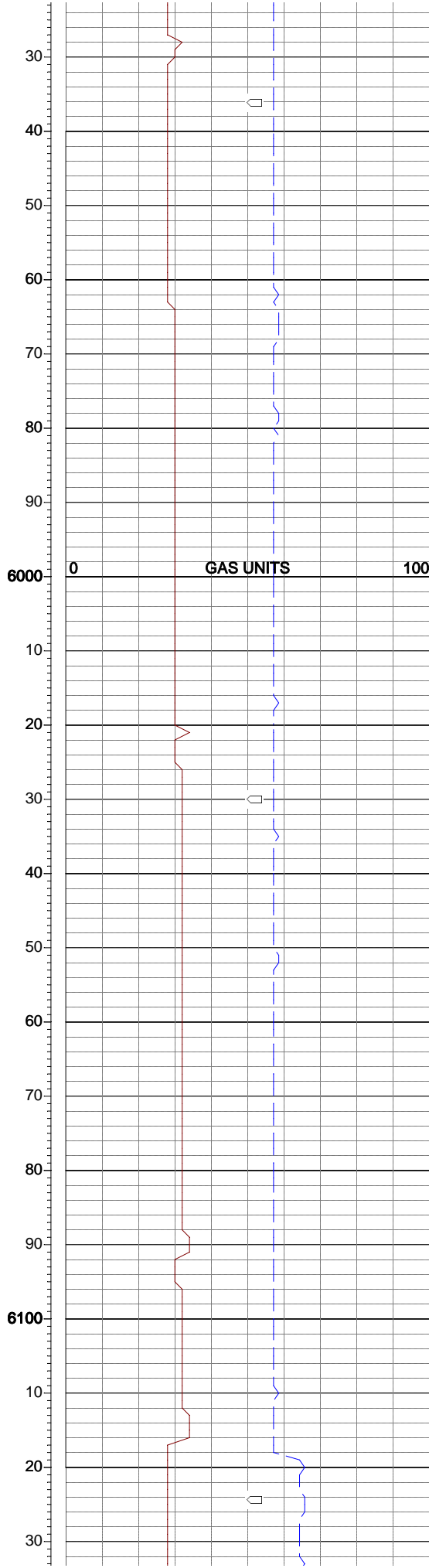
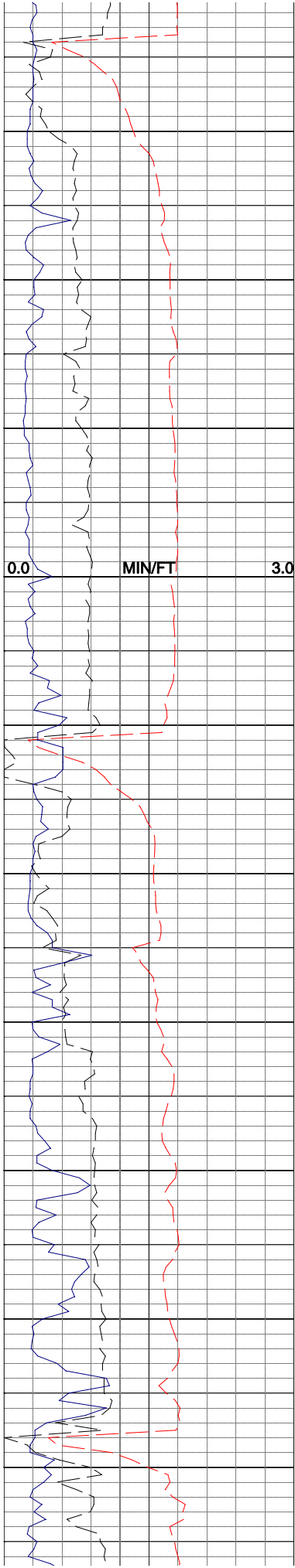
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9.3/61

9.2/45

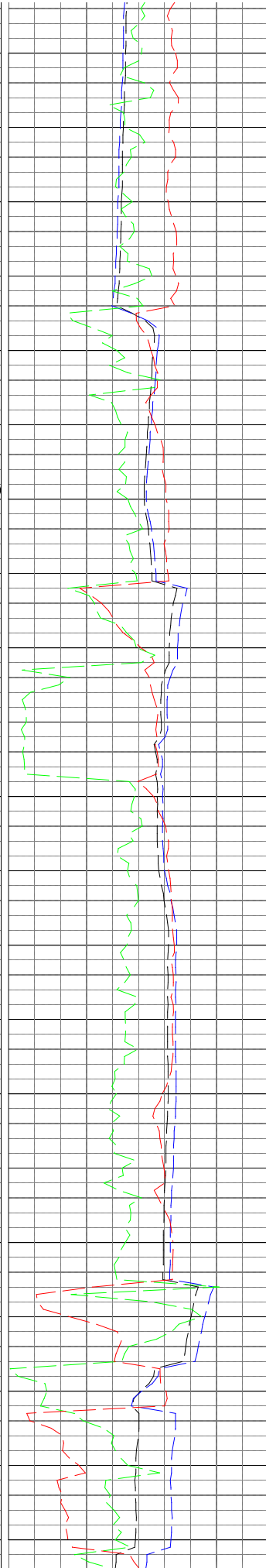
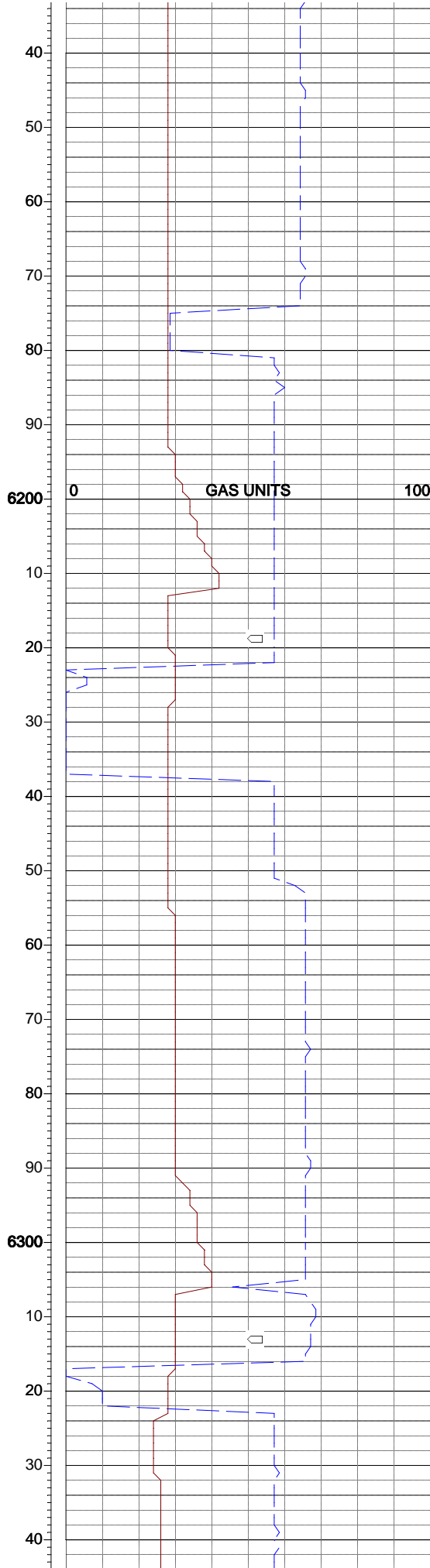
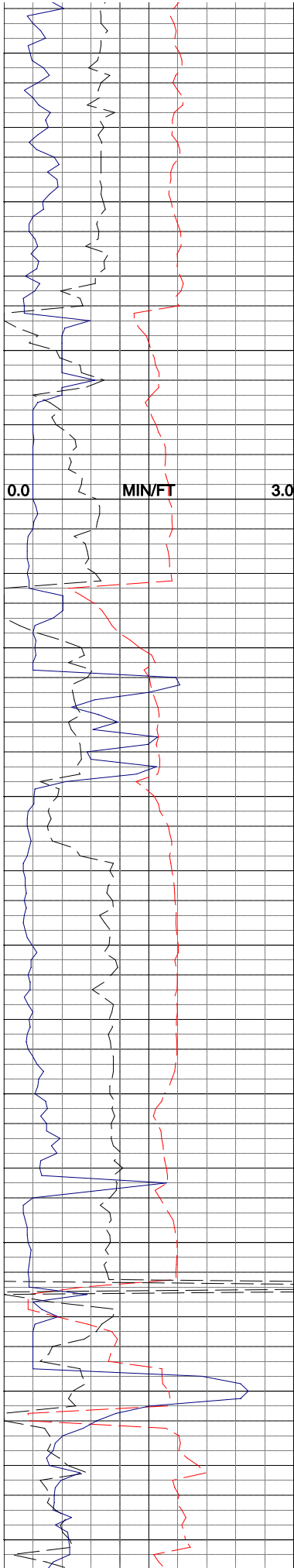






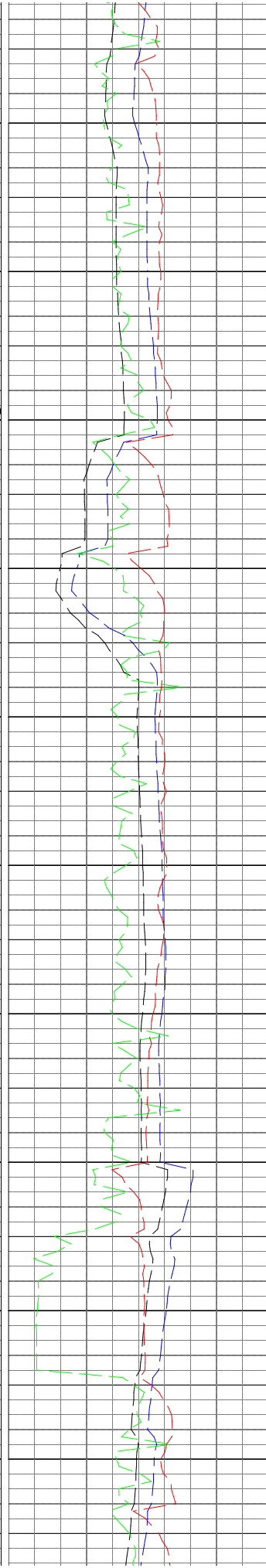
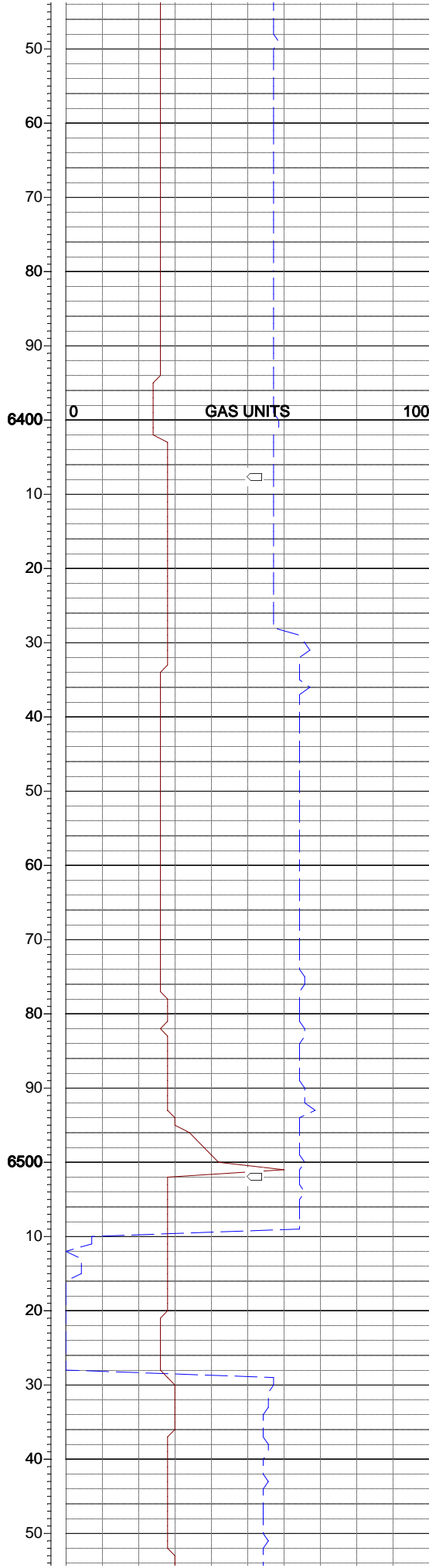
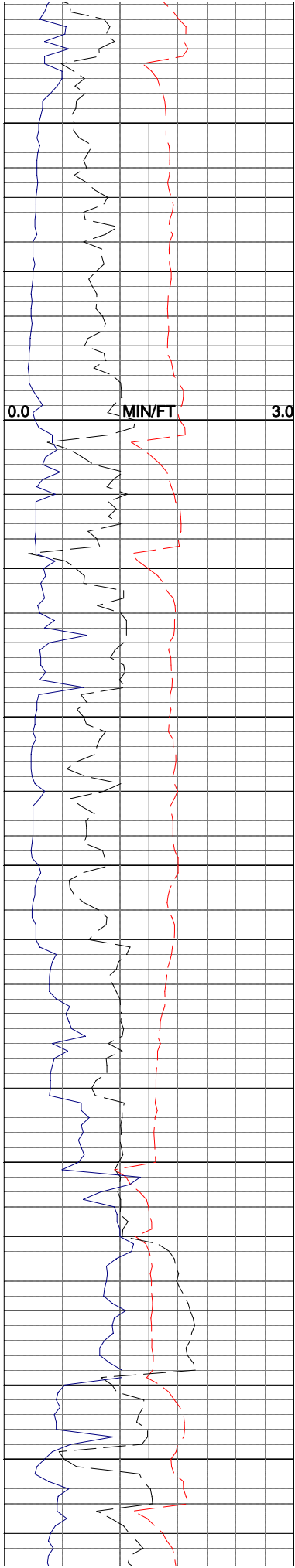
9.1/51

9.1/51



9.1/52

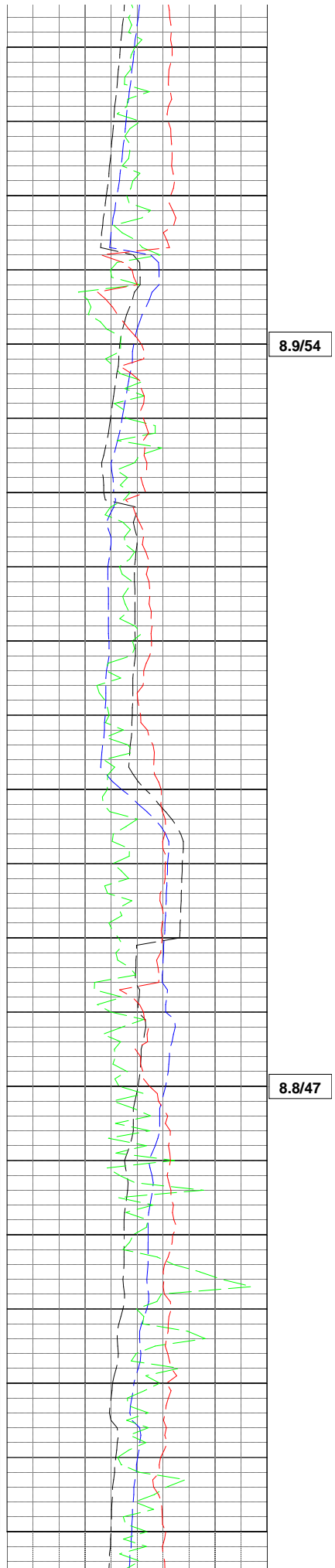
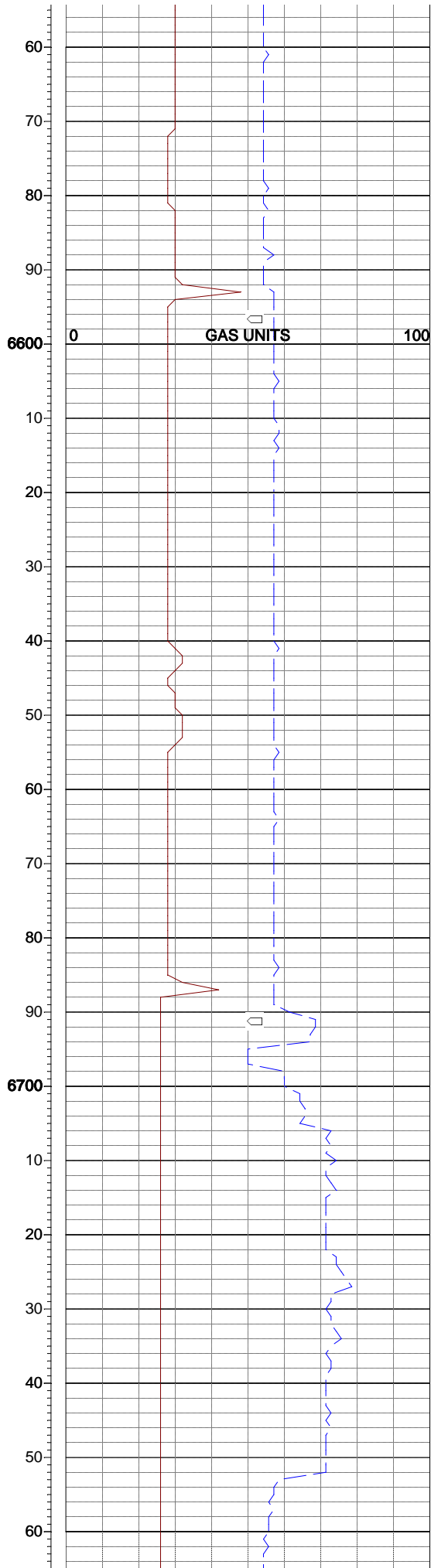
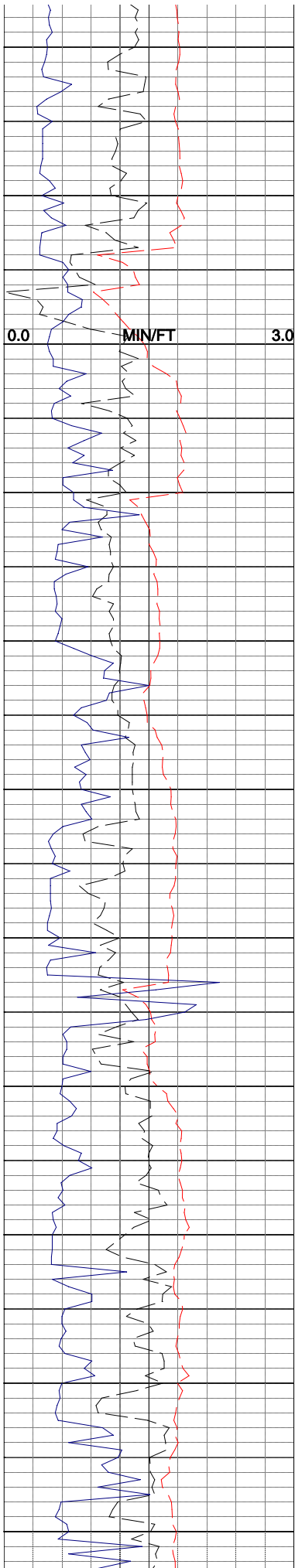
8.9/54

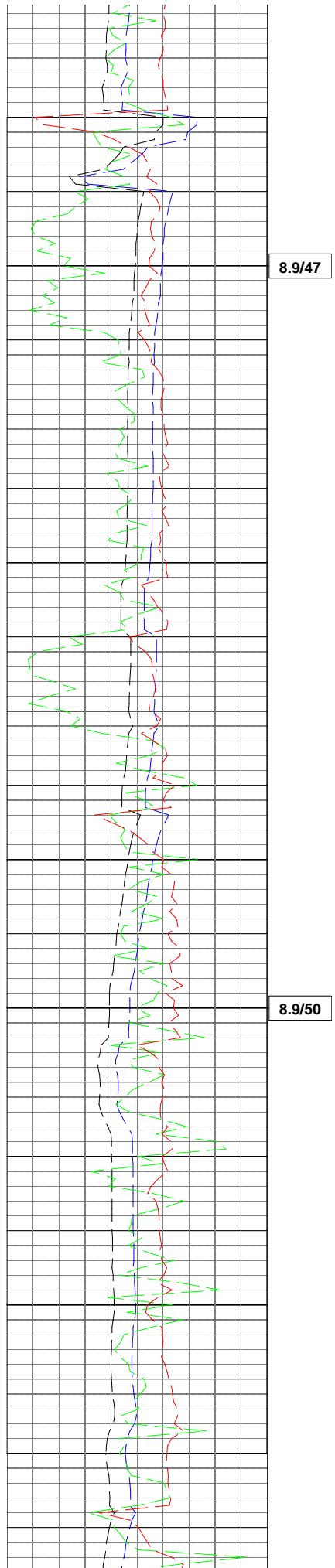
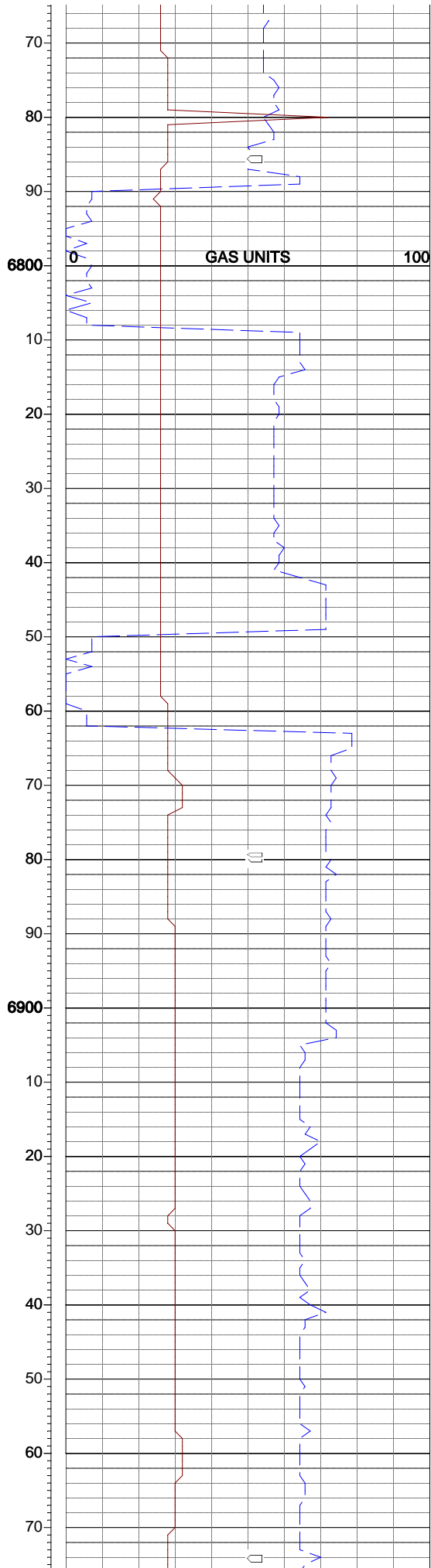
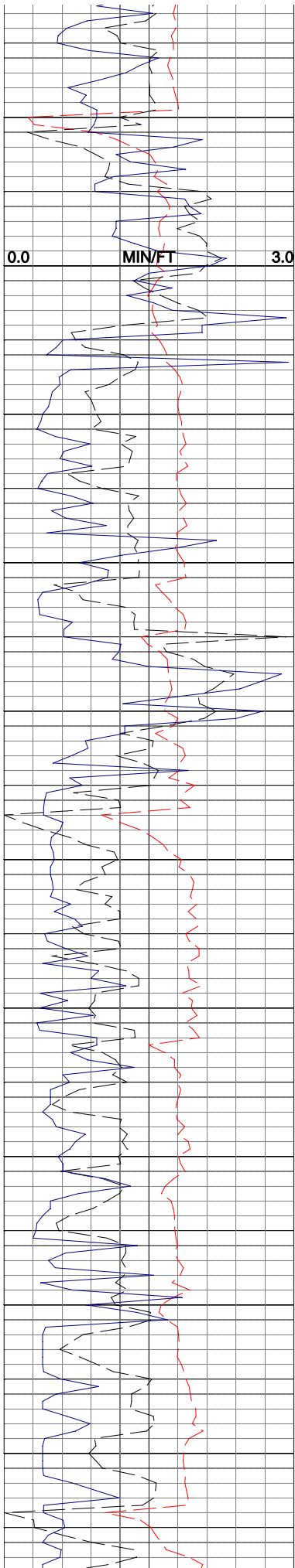


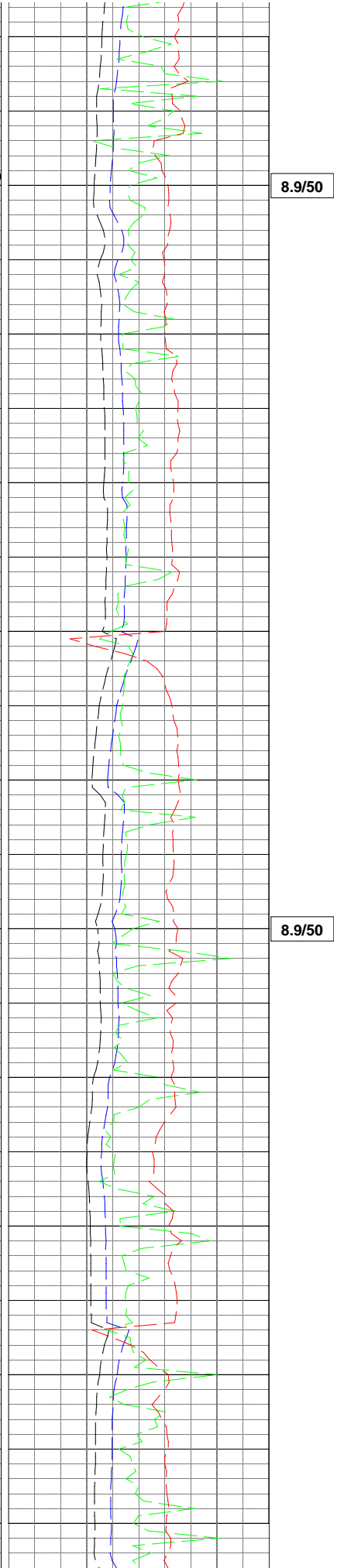
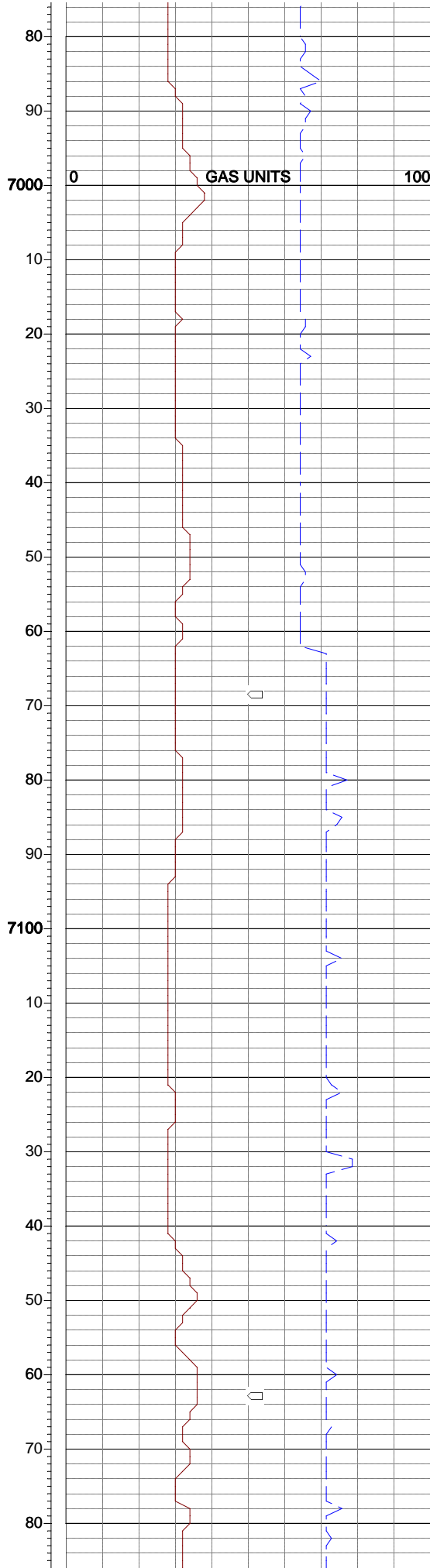
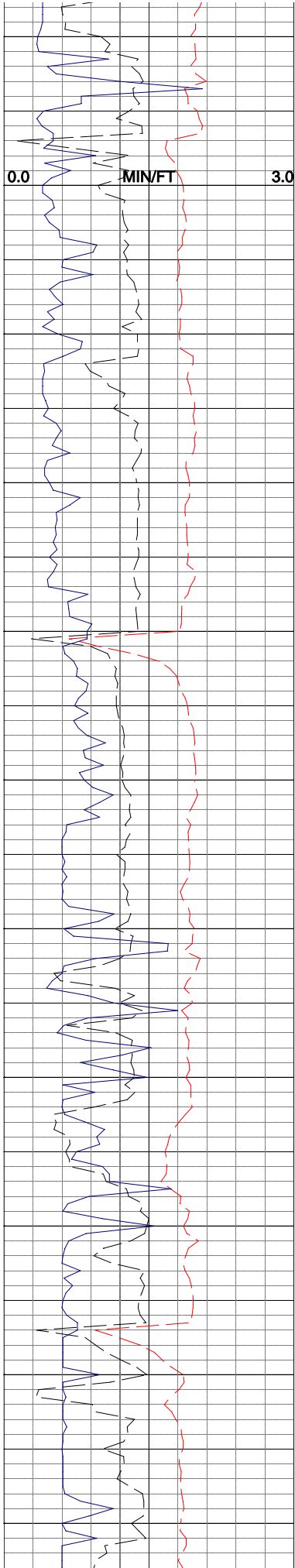
8.9/54

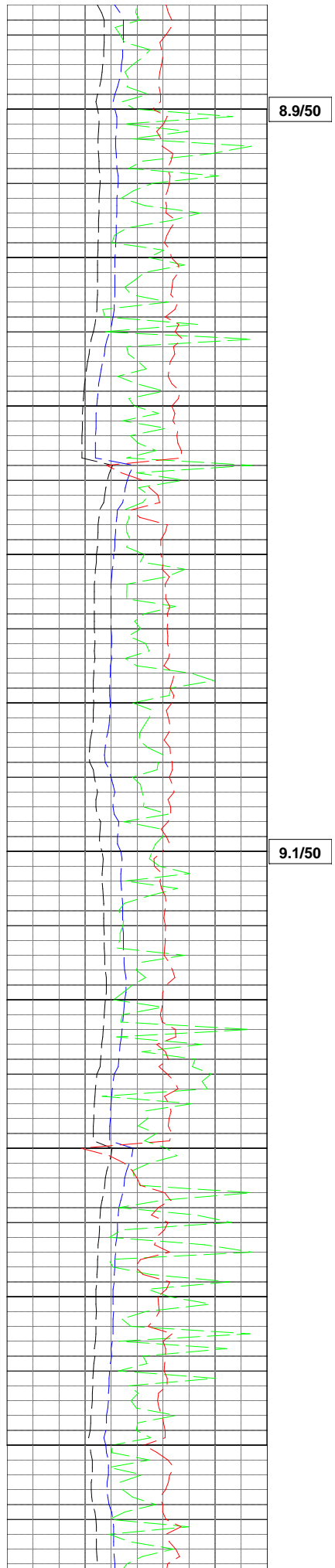
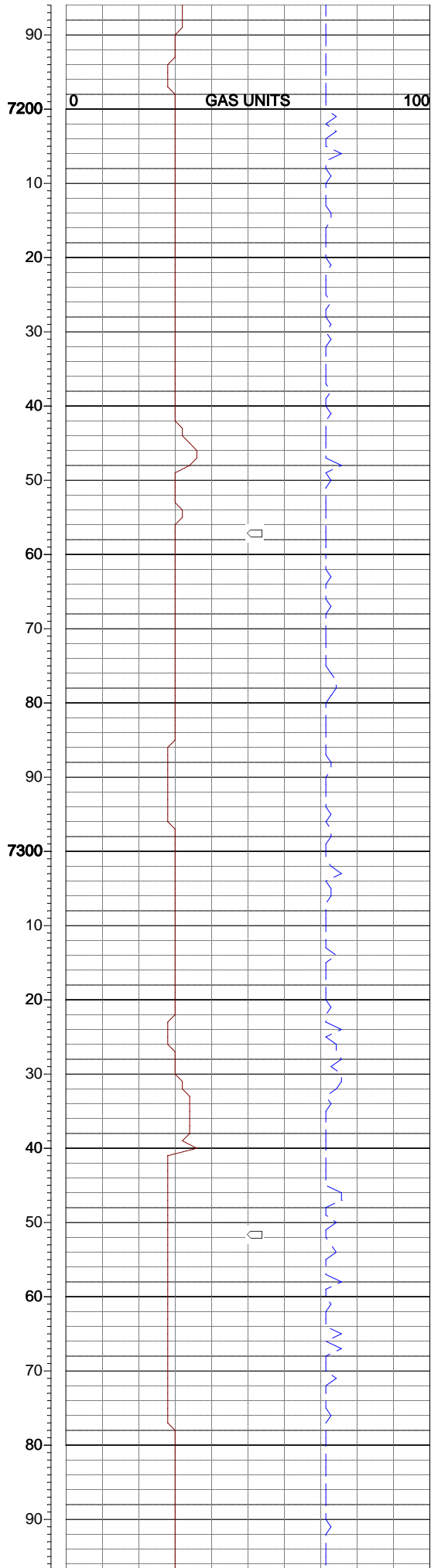
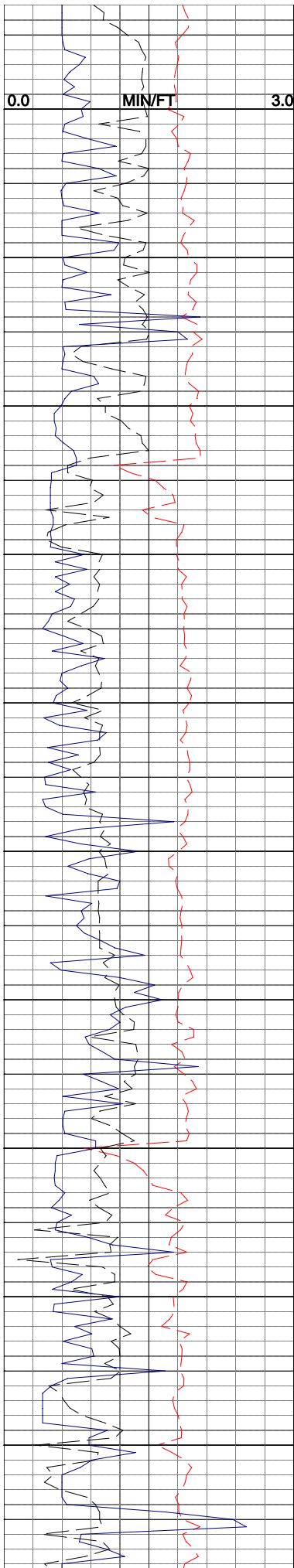
PROG MESAVERDE
= 6420' MD

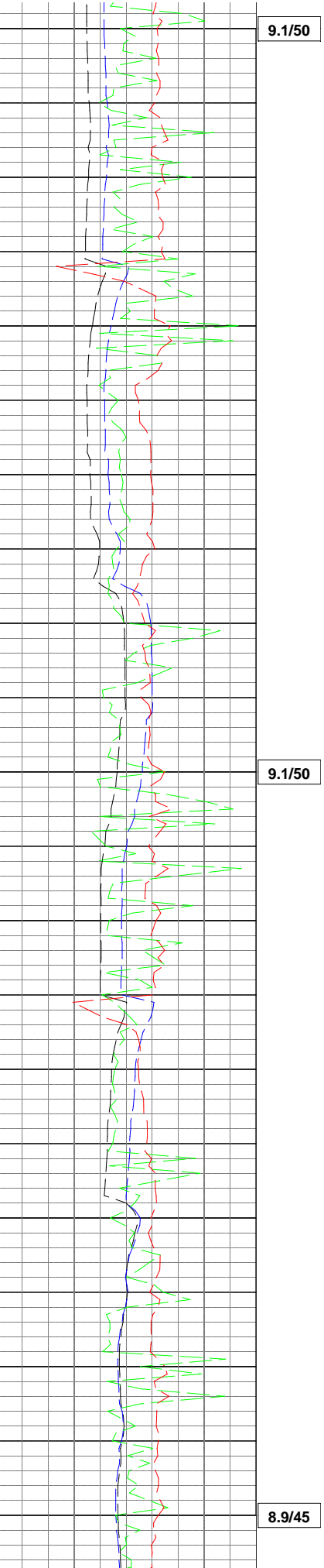
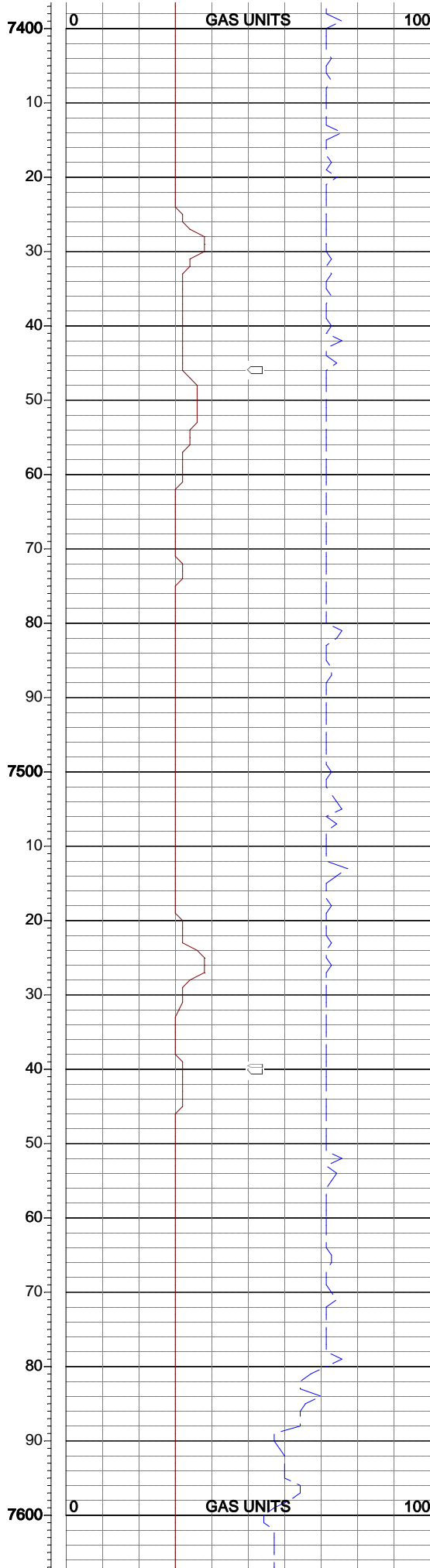
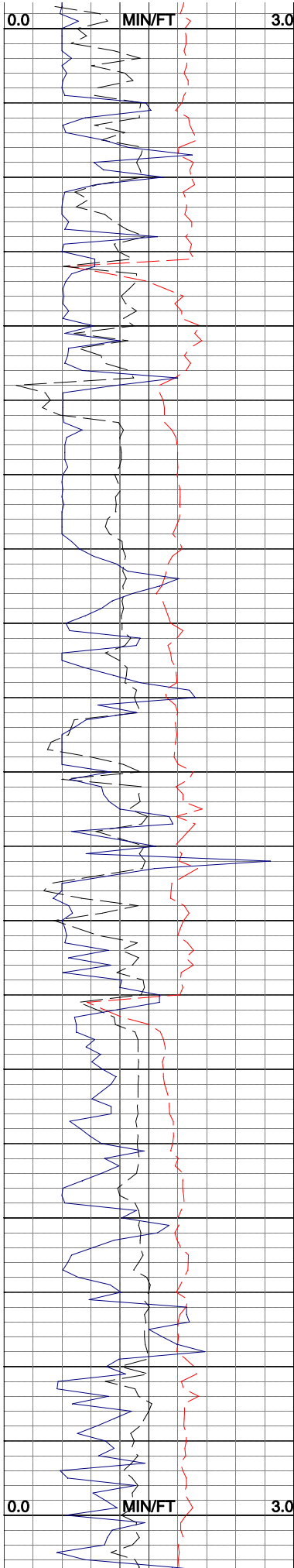
8.9/54

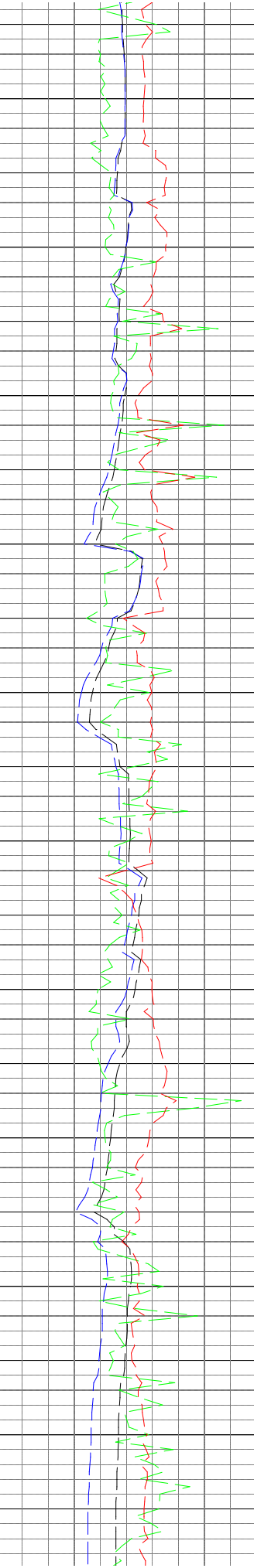
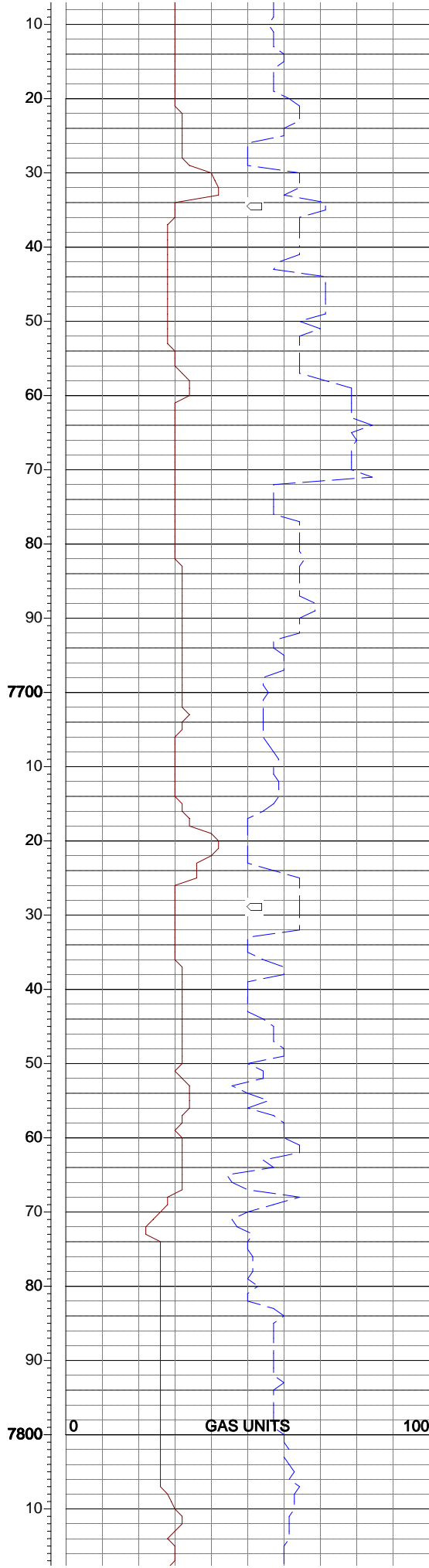
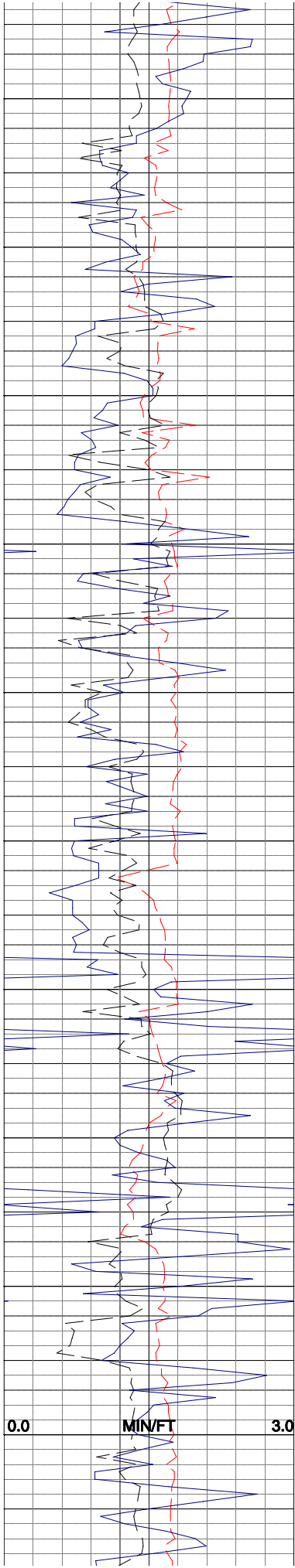








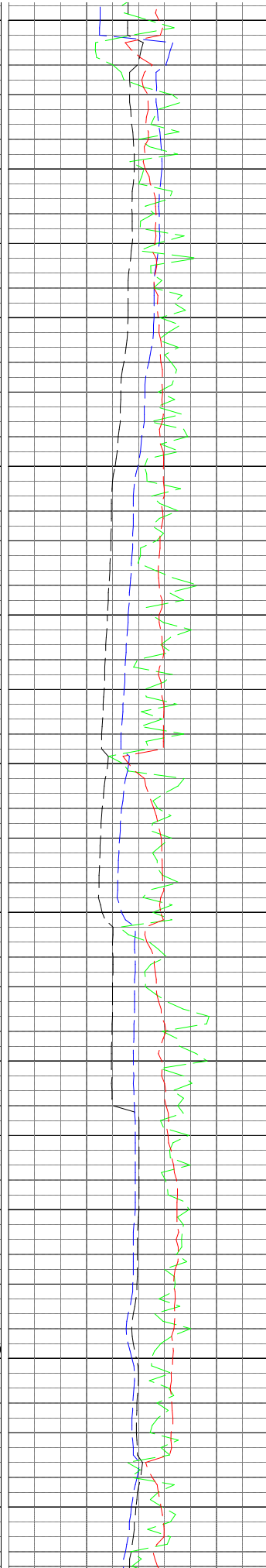
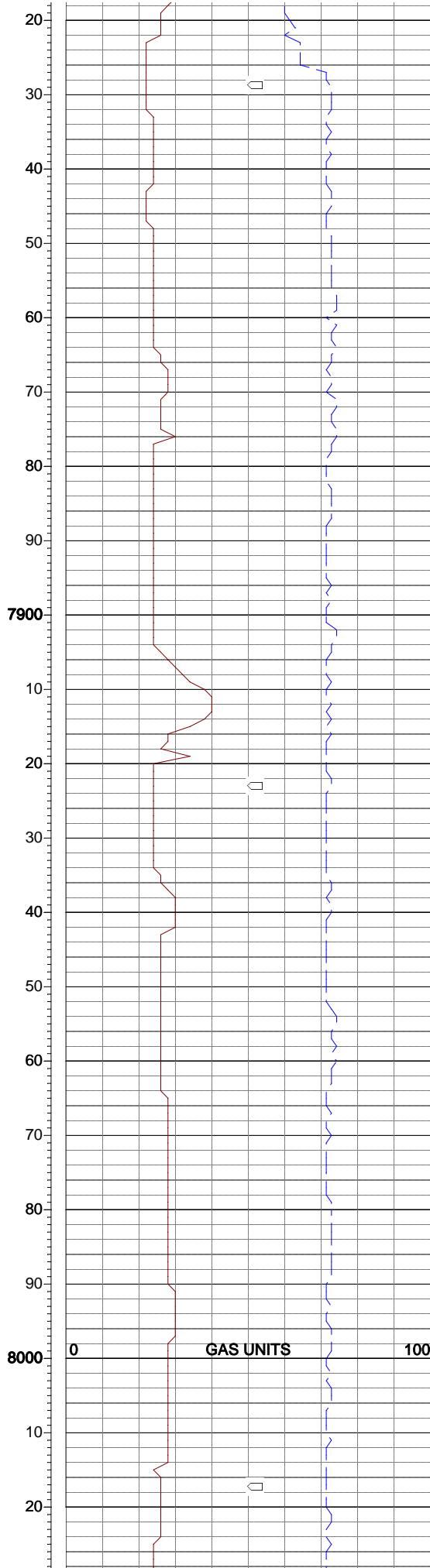
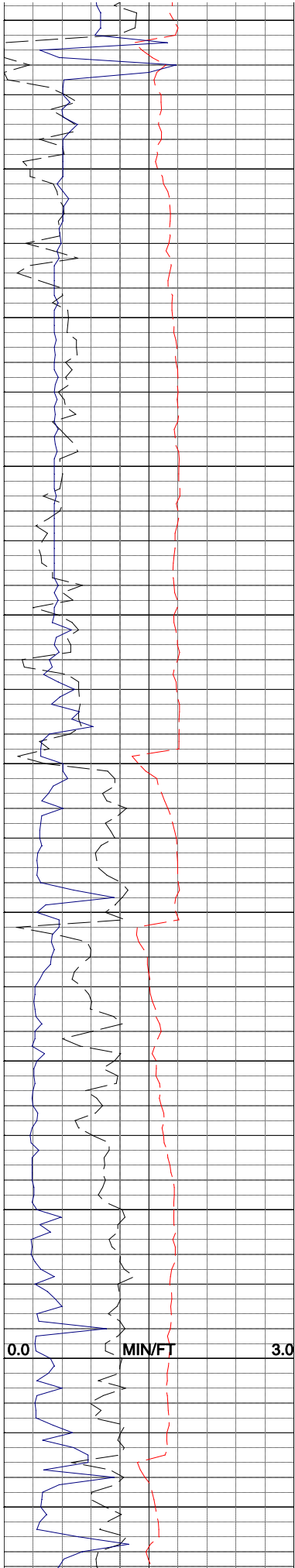




8.8/49

8.8/49

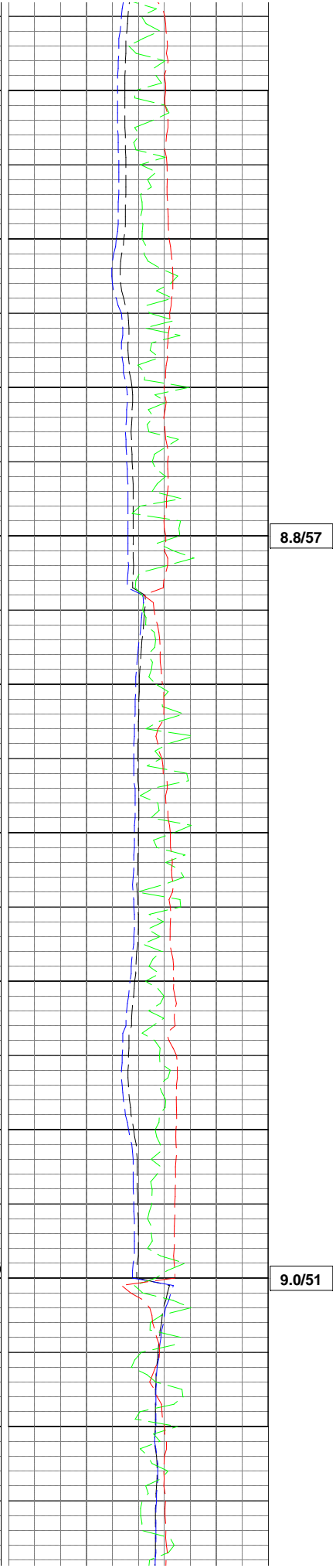
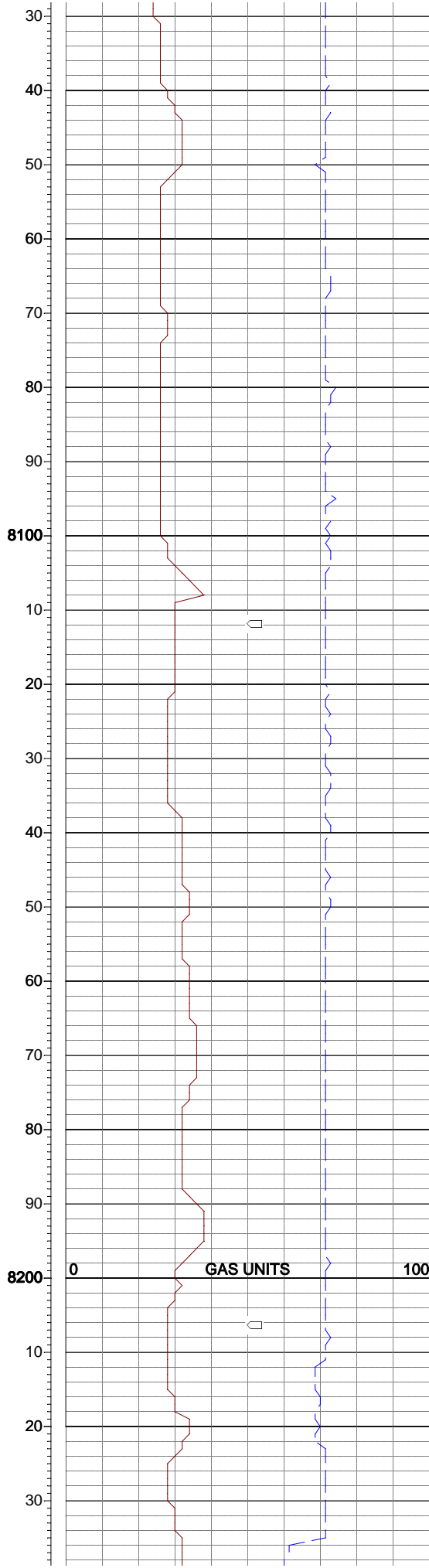
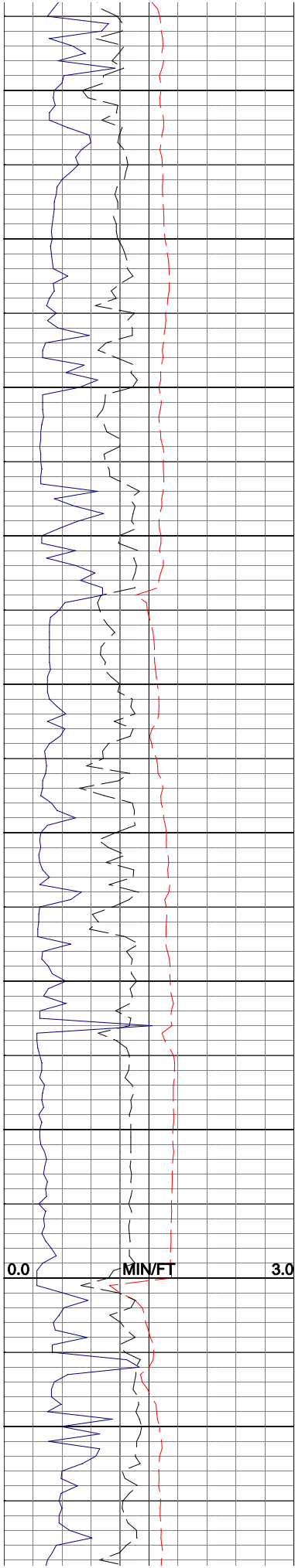
BIT #3
FTG: 5384'



HRS: 63
TOOH FOR BIT #4
BIT #4
7 7/8"
REED
DSR516M-F1
IN AT 7822'

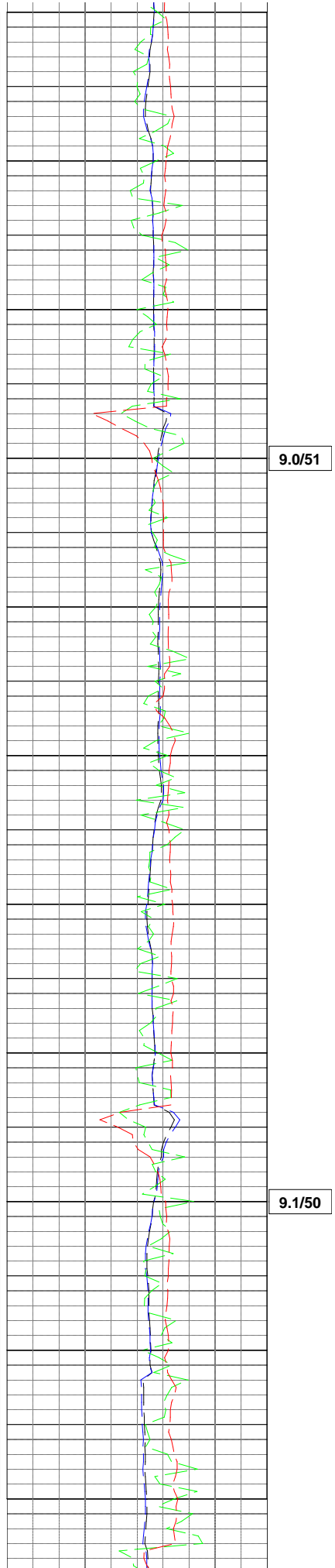
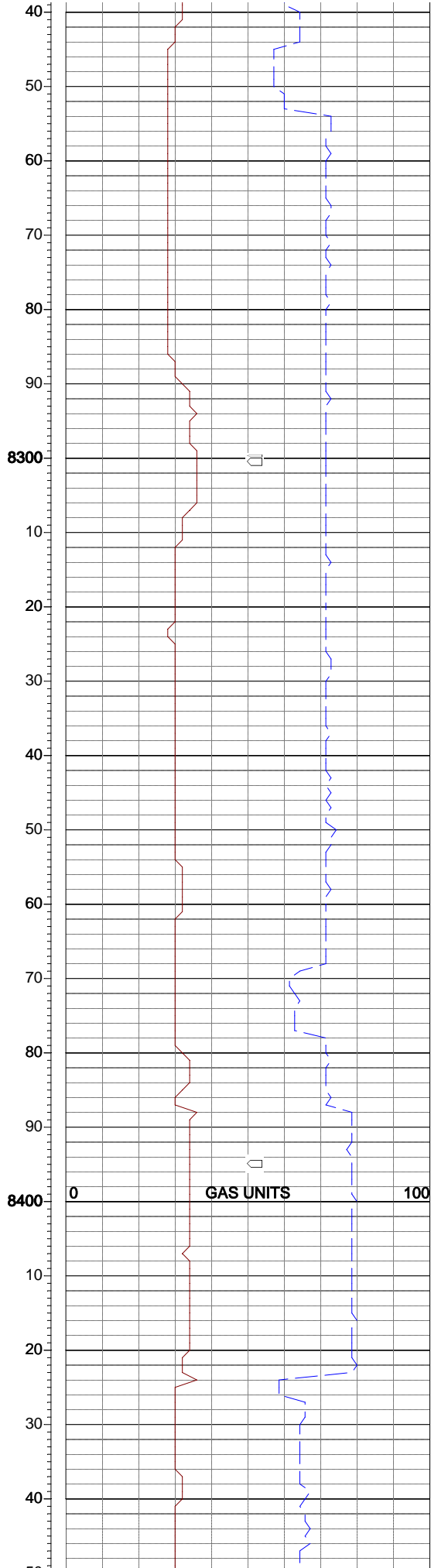
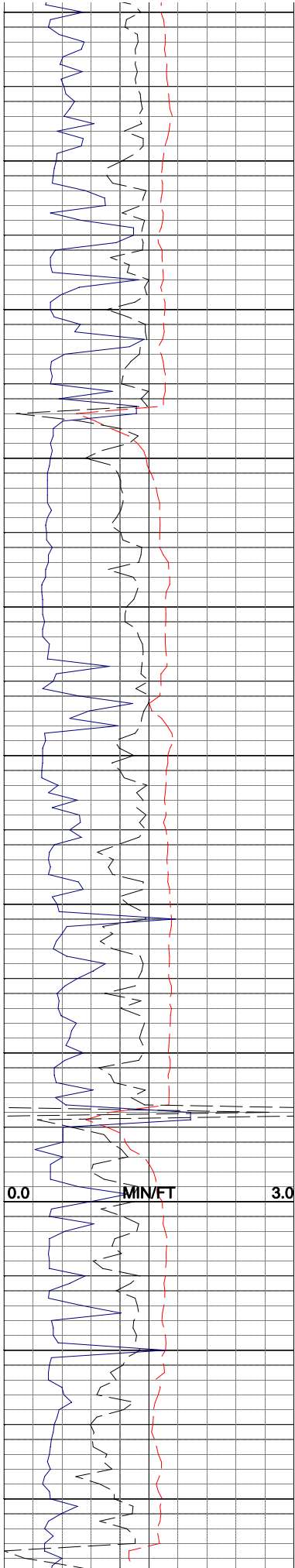
8.8/48

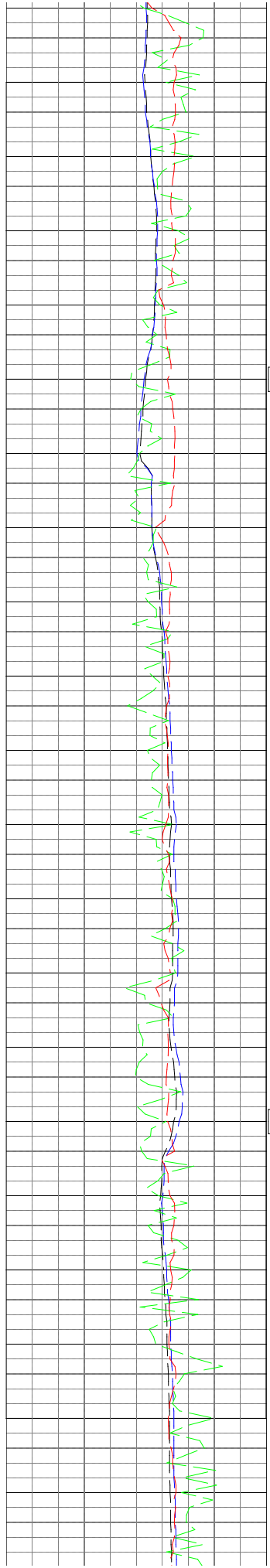
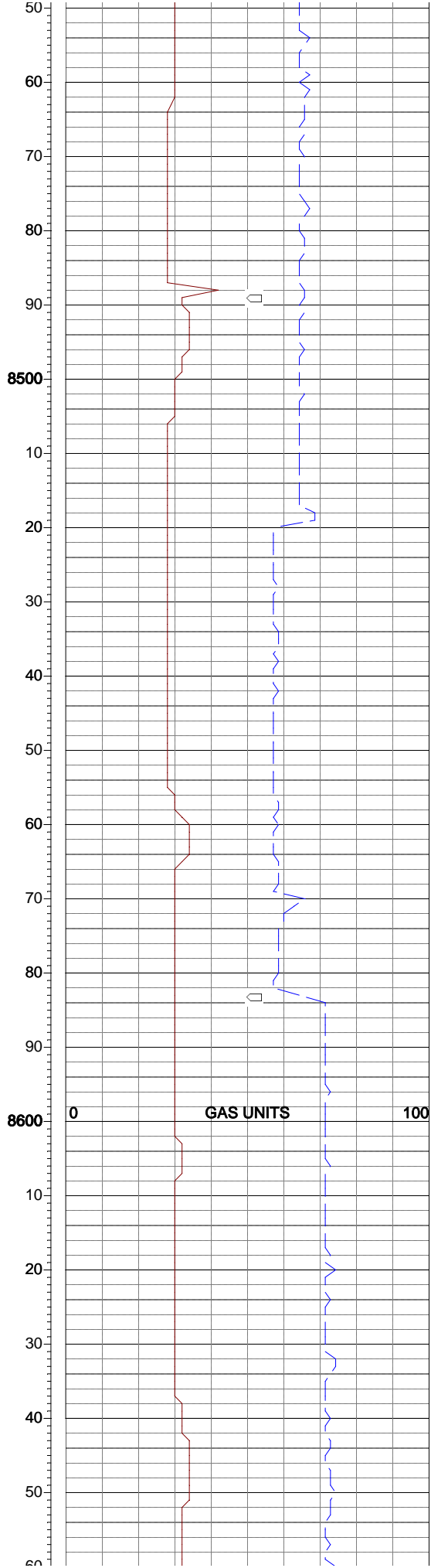
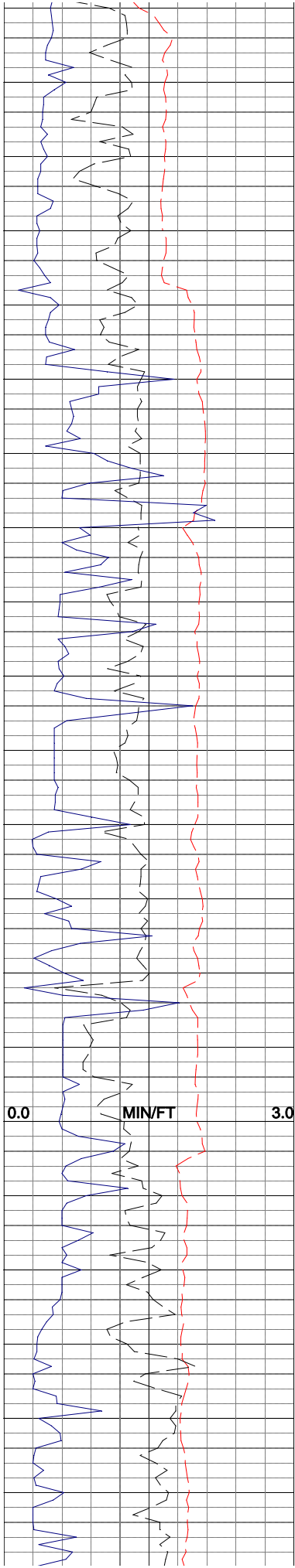
8.8/48



8.8/57

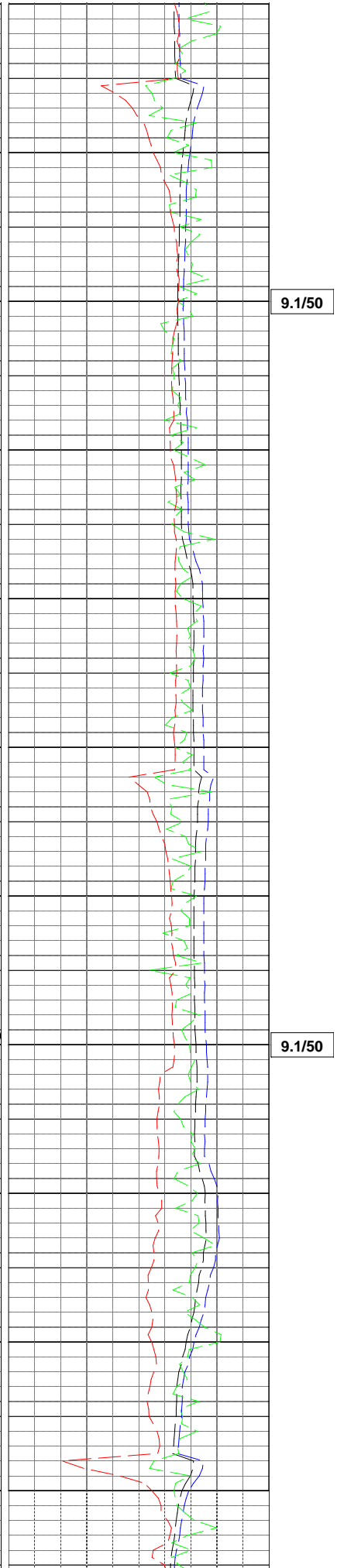
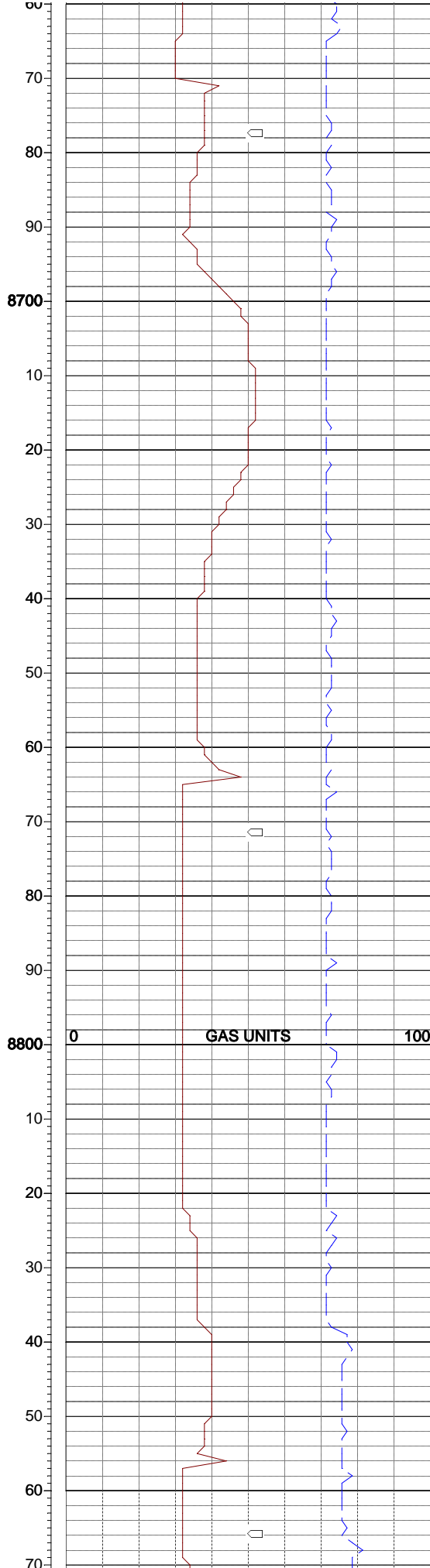
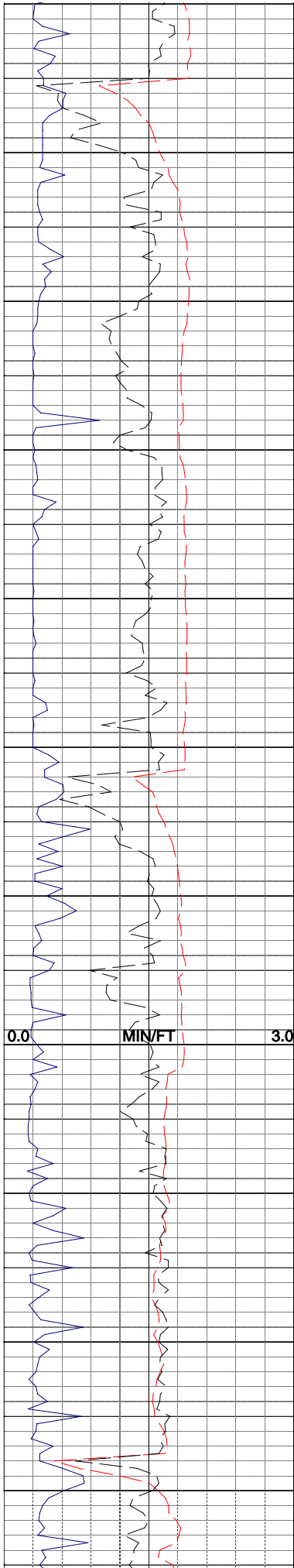
9.0/51

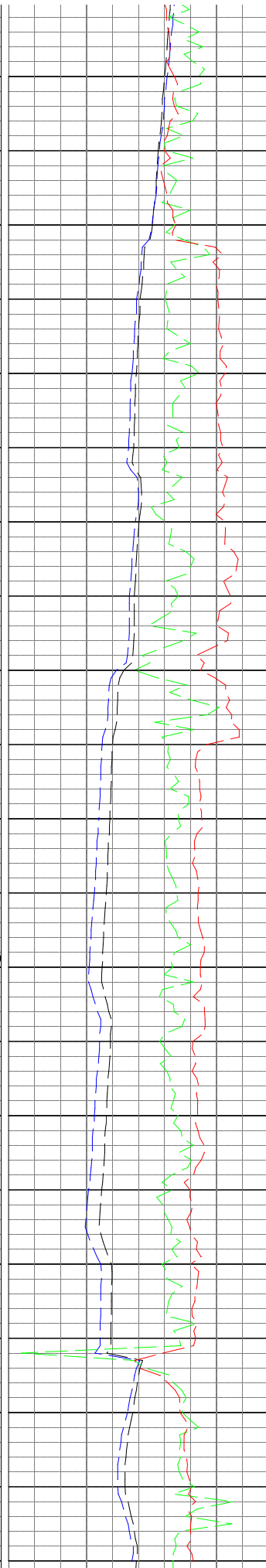
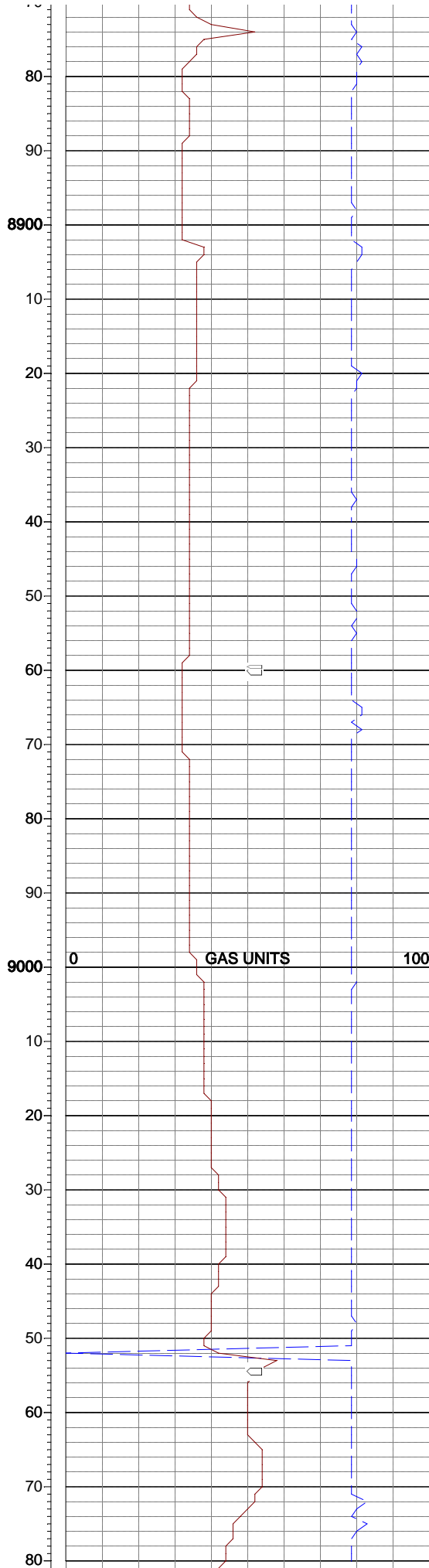
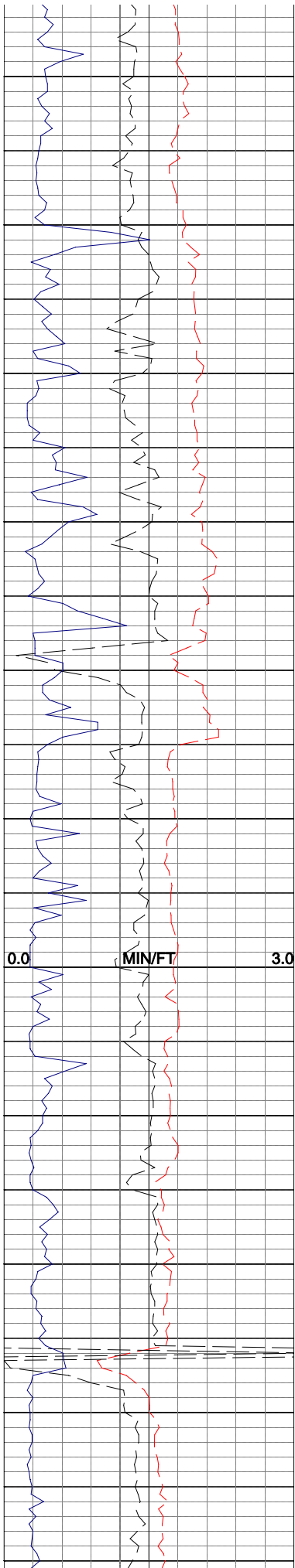




9.1/50

9.1/50

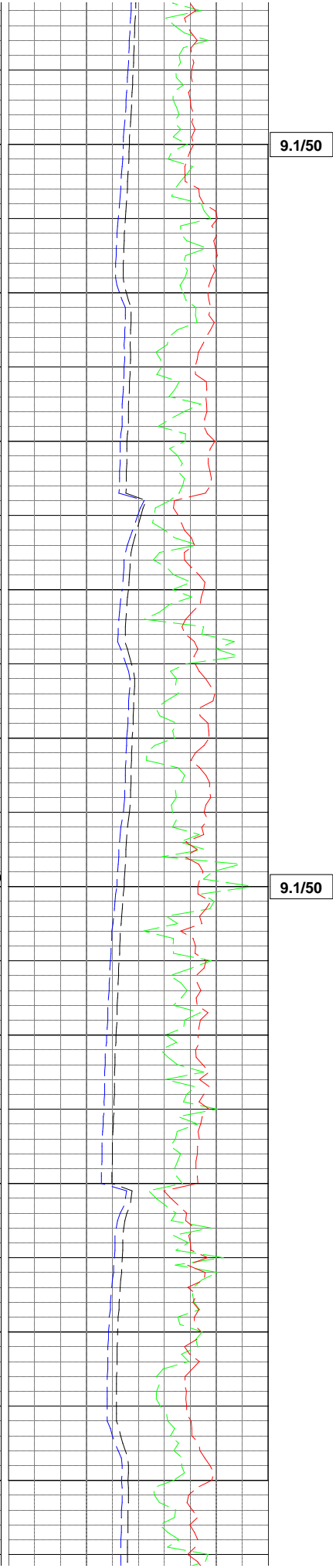
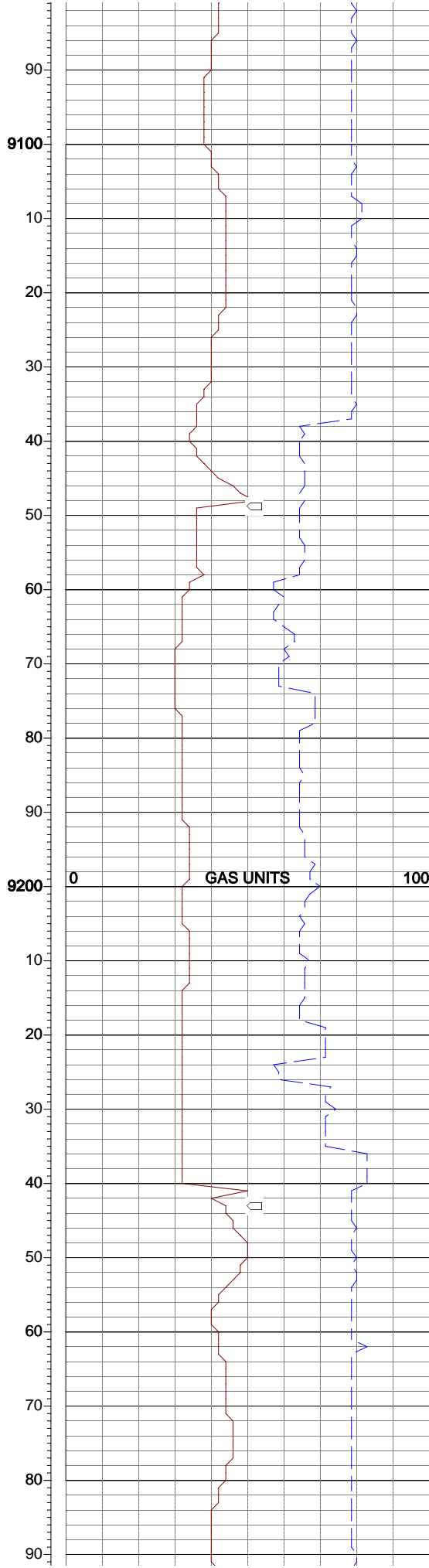
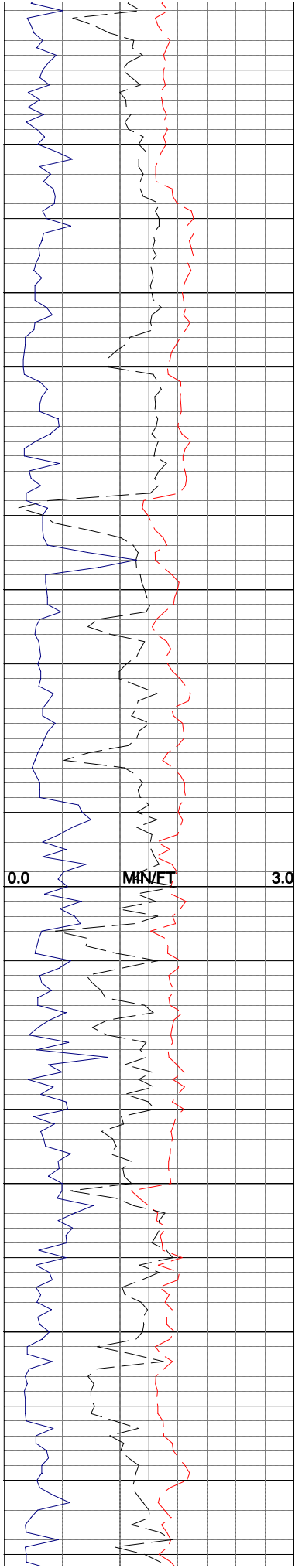


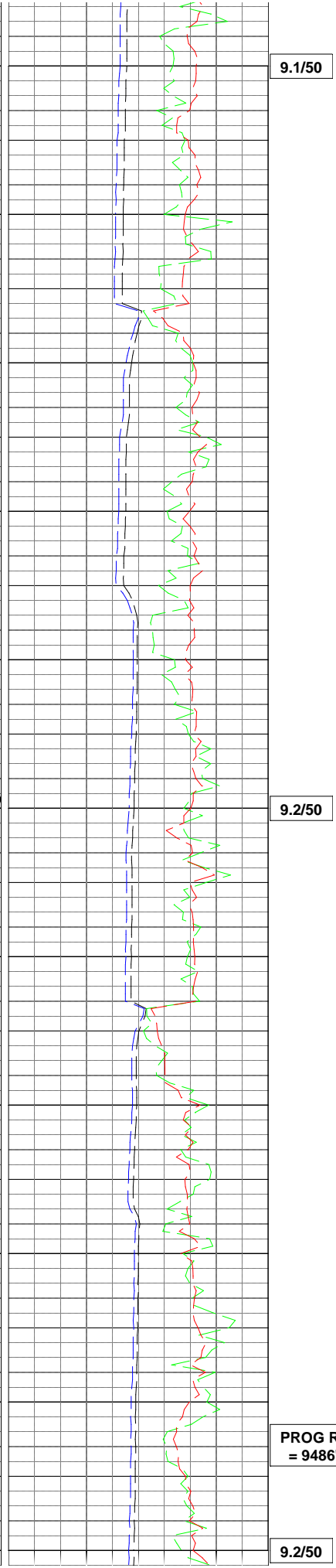
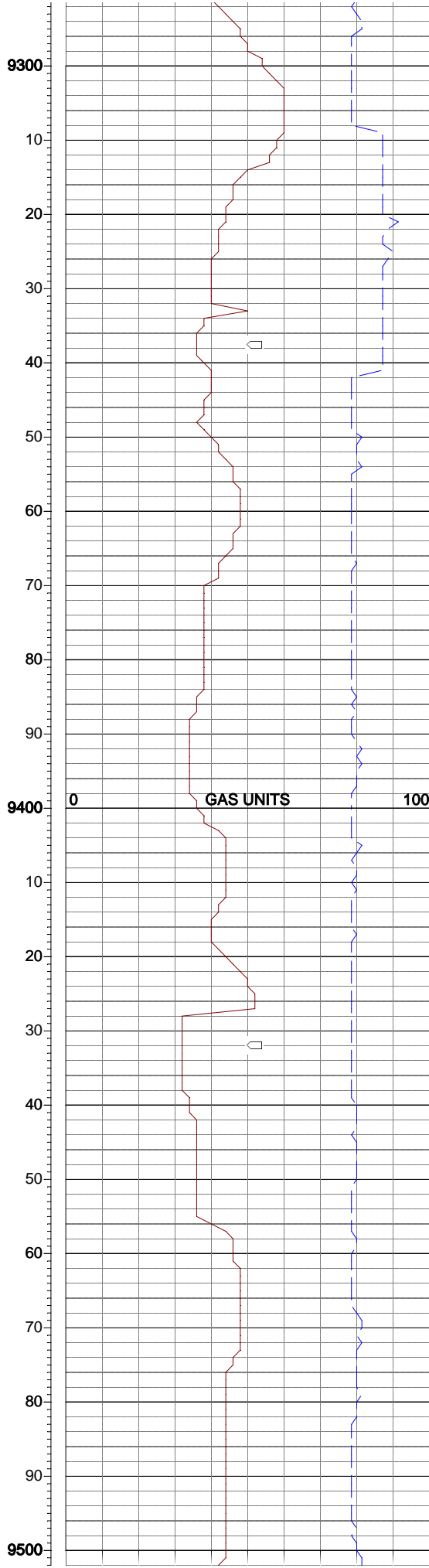
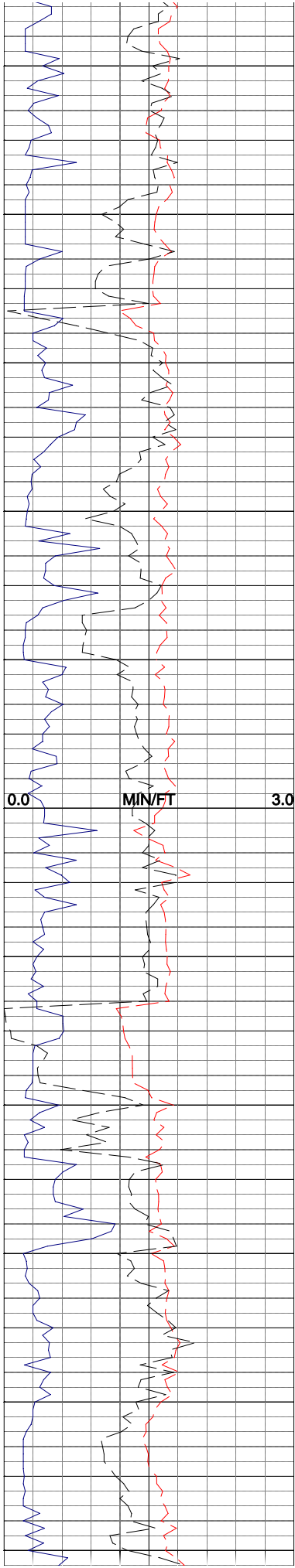


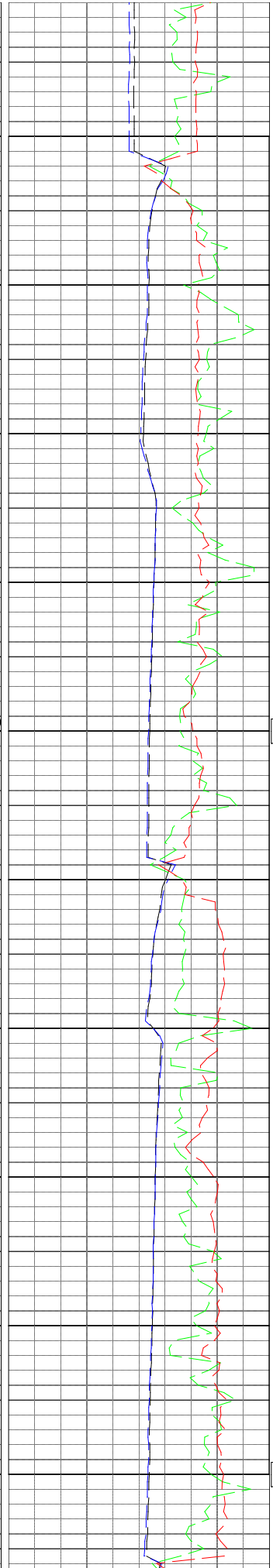
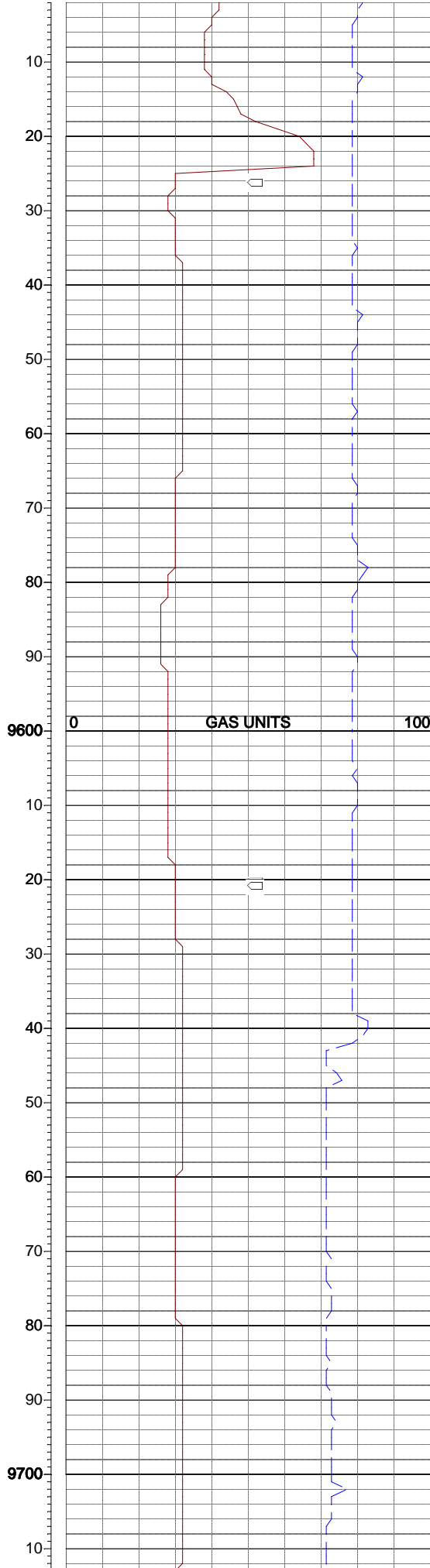
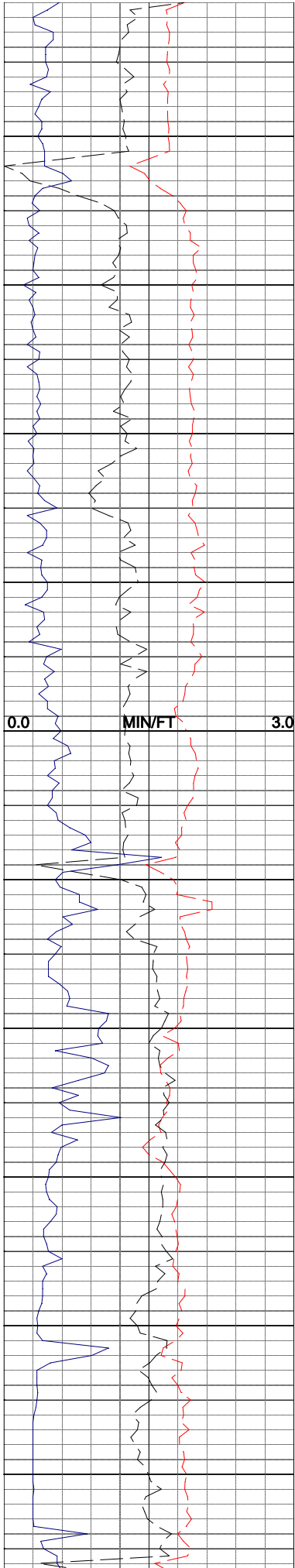
9.1/50

PROG CAMEO
= 8988' MD

9.1/50

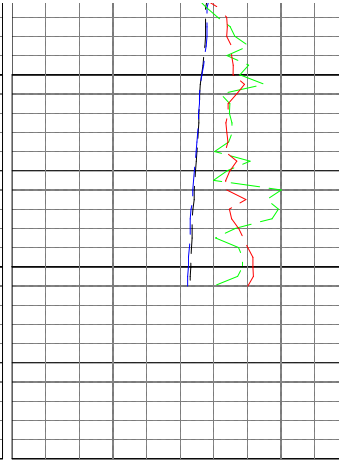
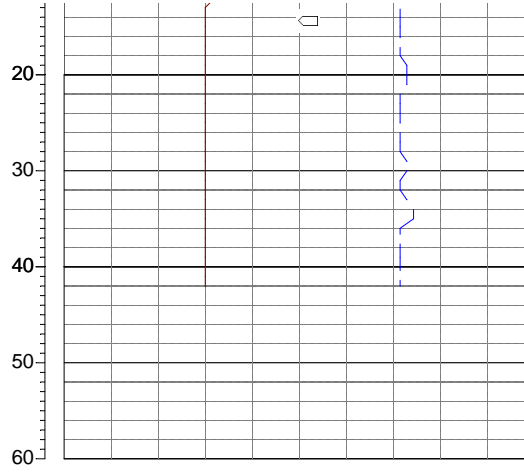
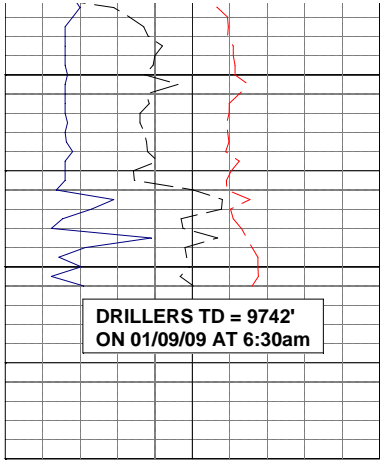






9.2/50

9.2/50



BIT #4
FTG: 1920'
HRS: 24

PASON SYSTEMS
RELEASED ON
01/09/09 AT 8:30am