


























































OPERATOR: ORION ENERGY PARTNERS
WELL: KOKOPELLI FEDERAL 18-312D
LOCATION: SEC 18 T6S R91W
COUNTY: GARFIELD
STATE: COLORADO
SPOT: 703' FSL & 1940' FEL
ELEVATION:
FIELD: KOKOPELLI
SPUD DATE: SEPTEMBER 7, 2008

TD DATE: SEPTEMBER 17, 2008
DATES LOGGED: 09/07/08 - 09/17/08
DEPTHS LOGGED: 142' - 7454'
LOGGERS: COMMAND CENTER
DRILLING FLUID: LSND
DRILLING RIG: PATTERSON 500
API #: 05-045-16266
SCALE: 1:240 (5.0 INCH/100 FT)

REMARKS:

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 WACKSTONE		DOLOMITIC LIMESTONE
	CALCEROUS DOLOMITE		ARGILLACEOUS DOLOMITE		DOLOMITIC MUDSTONE		CRYSTALLINE DOLOMITE		DOLOMITIC BOUNDSTONE
	DOLOMITIC GRAINSTONE		DOLOMITIC PACKSTONE		DOLOMITIC WACKSTONE		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
	SILTY SHALE		SHALY SILTSTONE						

MODIFIERS

AHYDRITE STRINGERS	ALGAE, LAMINATED	ALGAE, NON-DESCRIPT	ALGAE, OOTOID	ALGAE, SKELETAL	AMPHIPORA
ANHYDRITIC	ARGILLACEOUS	ARGILLITE GRAIN	BELEMNITE	BENTONITE	BIOCLAST/ FRAGMENTAL
BRACHIOPOD	BRECCIA	BRYOZOA	CALCAREOUS	CARBONACEOUS FLAKES	CEMENTING BITUMENOUS
CEPHALOPOD	CHERT, DARK	CHERT, LIGHT	CHERT, TRIPOLITIC	COAL	CORAL
CRINOID	CRYSTALS	DOLOMITE STRINGERS	DOLOMITIC	ECHINOID	FELDSPAR
FERRUGINOUS GRAINS	FERRUGINOUS STRINGERS	FERRUGINOUS	FISH REMAINS	FORAMINIFERA	FOSSILS
FRACTURES	GASTROPOD	GLAUCONITE	GYPSIFEROUS	GYPSUM STRINGERS	HEAVY/DARK MINERALS
INTRACLASTS	KAOLIN	LIMESTONE STRINGERS	LIMONITE	MARLSTONE, CALCAREOUS	MARLSTONE, DOLOMITIC
MICACEOUS	NODULES	OOLITES	OSTRACOD	PEBBLES	PELECYPOD
PELLETS	PHOSPHATE PELLETS	PISOLITE	PLANT REMAINS	PYRITE	SALT CAST/INFILL
SAND GRAINS	SANDSTONE STRINGERS	SANDY	SCAPHOPOD	SHALE LAMINAE	SILICEOUS
SILTSTONE STRINGERS	SILTY	SLICKENSIDE	SPORES	STROMATOPOROID	STYLOLITE
TUFFACEOUS	BITUMEN	SULPHUR			

POROSITY/SORTING/ROUNDNESS SYMBOLS

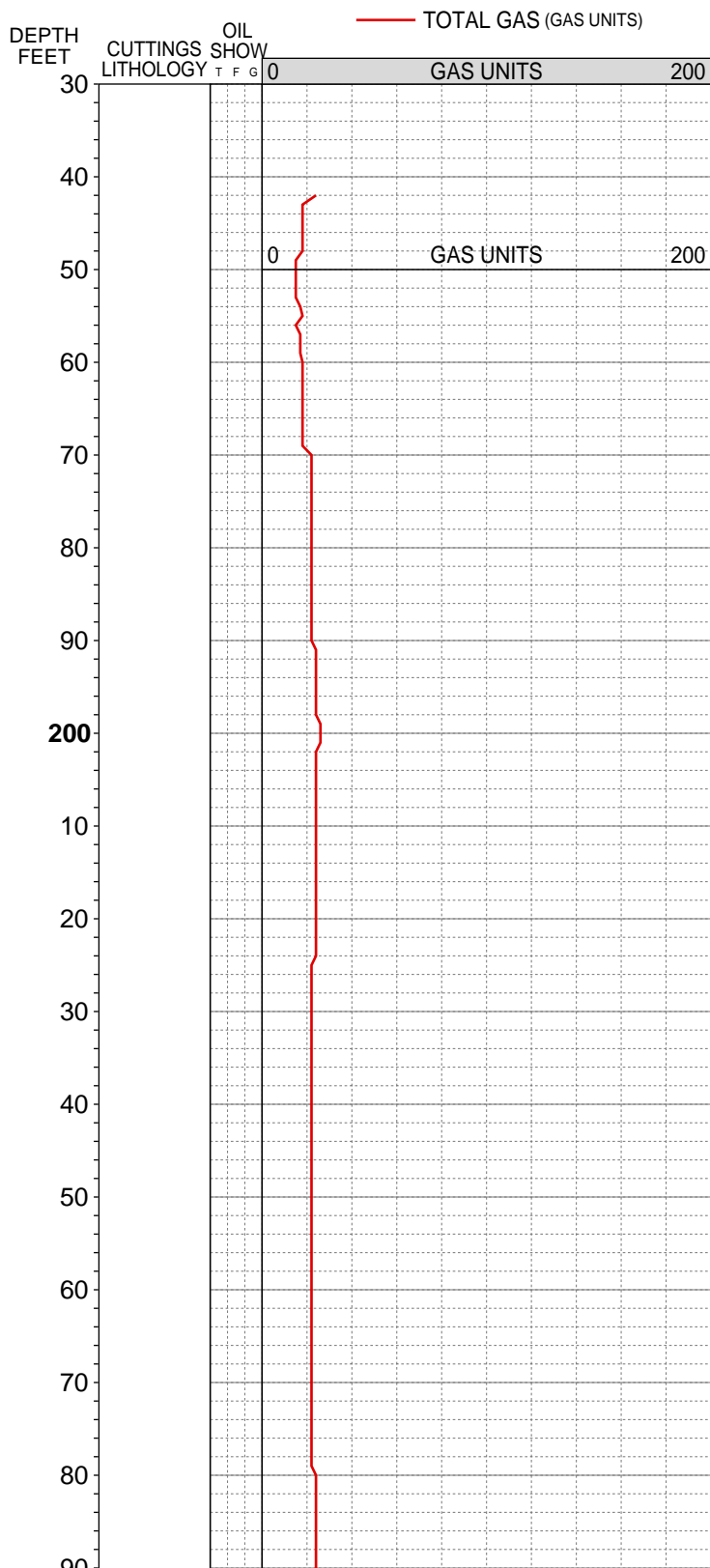
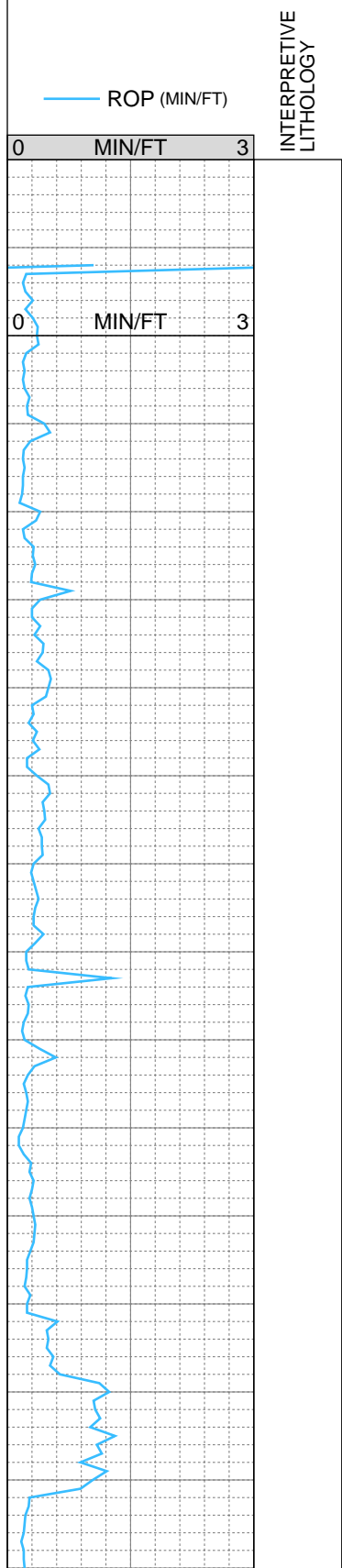
INTERCRYSTALLINE INTERGRANULAR	VUGGY	FRACTURE	INTEROOLITIC	PINPOINT	ORGANIC
MOLDIC	EARTHY	FENESTRAL			
VERY POOR	POOR	MODERATE	MODERATLY WELL	WELL	VERY WELL
ANGULAR	SUBANGULAR	SUBROUNDED	ROUNDED		

ENGINEERING SYMBOLS

BIT CHANGE	LOST CIRCULATION	CASING	CASING	SIDEWALL CORE	SIDEWALL CORE
WIRELINE TEST	WIRELINE TEST	GAS TO SURFACE	OIL TO SURFACE	WATER TO SURFACE	EVEN STAINING
SPOTTED STAINING	DEAD OIL	QUESTIONABLE	OIL SHOW	GAS SHOW	OIL AND GAS SHOW
CONNECTION GAS	TRIP GAS	MIDNIGHT DEPTH	MIDNIGHT DEPTH	CONNECTION	OFF BOTTOM
NORMAL FAULT	REVERSE FAULT	OVERTURNED STRATA	ARROW	ARROW	
CORE RECOVERED	CORE LOST	DST INTERVAL	ROTATING	SLIDING	CANISTER

ABBREVIATIONS

CB - CORE BIT	CG - CONNECTION GAS	CO - CIRCULATE OUT	DST - DRILL STEM TEST
DTG - DOWNTIME GAS	LAT - LOGGED AFTER TRIP	NR - NO RETURNS	NS - NO SAMPLE
PP - PUMP PRESSURE	RPM - REVOLUTIONS/MIN	RR - RE-RUN	SLM - STEEL LINE MEASURE
SPM - STROKES/MIN	TG - TRIP GAS	WOB - WEIGHT ON BIT	

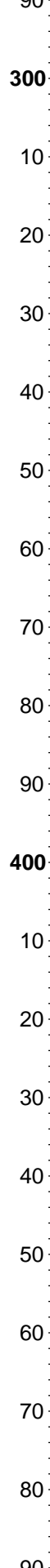
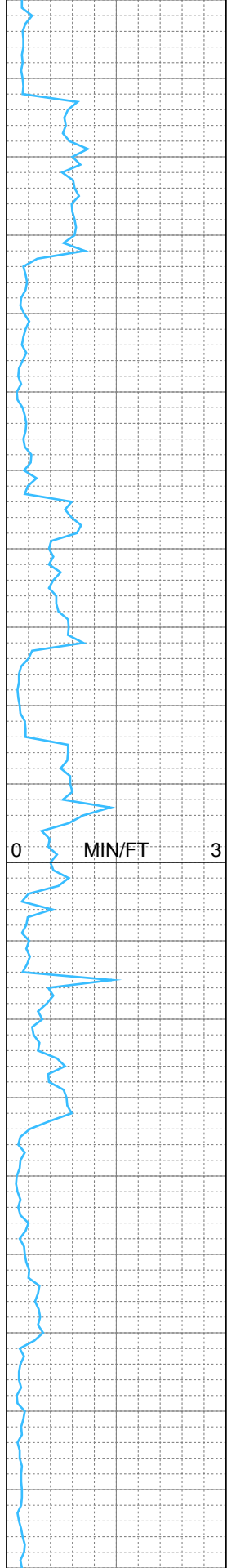


LITHOLOGY DESCRIPTIONS

PASON SYSTEMS
TOTAL REMOTE LOGGING
142' - 7454' TGAS RUNNING
AND LOGGING BEGAN
09/07/08 - 09/17/08

MUD WT. 9.4
VIS. 48

MUD WT. 9.4
VIS. 65

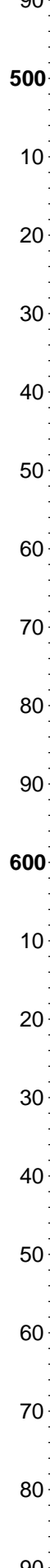
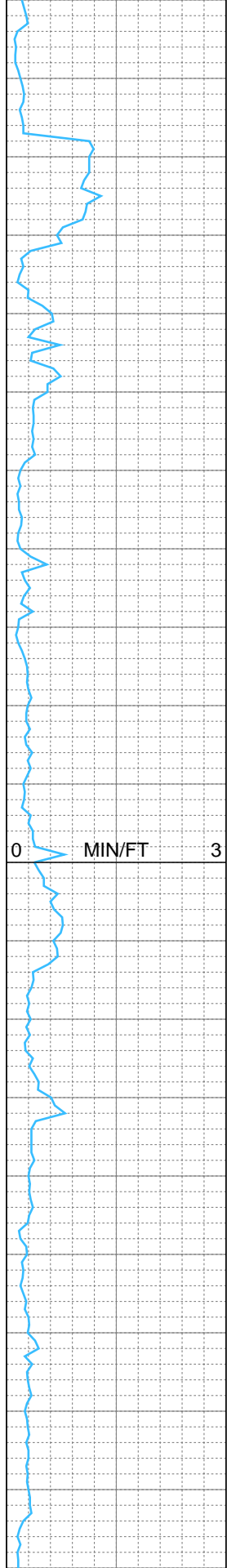


MUD WT. 9.4
VIS. 58

MUD WT. 9.4
VIS. 58

MUD WT. 9.4
VIS. 58

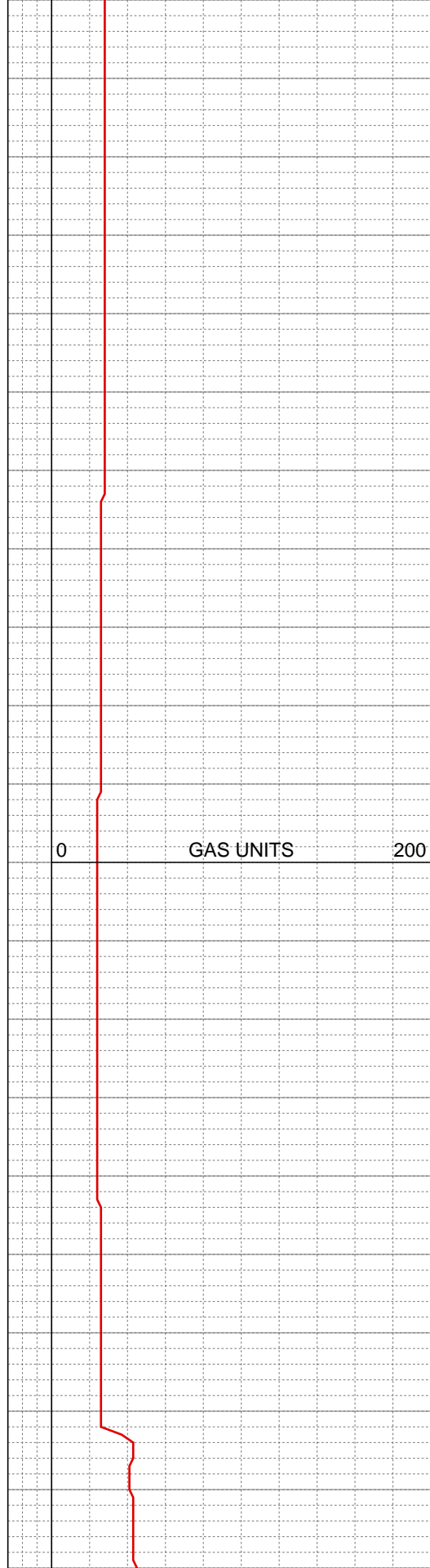
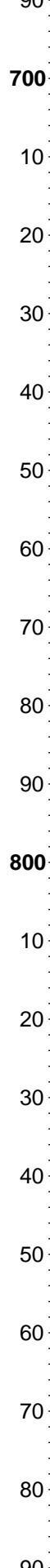
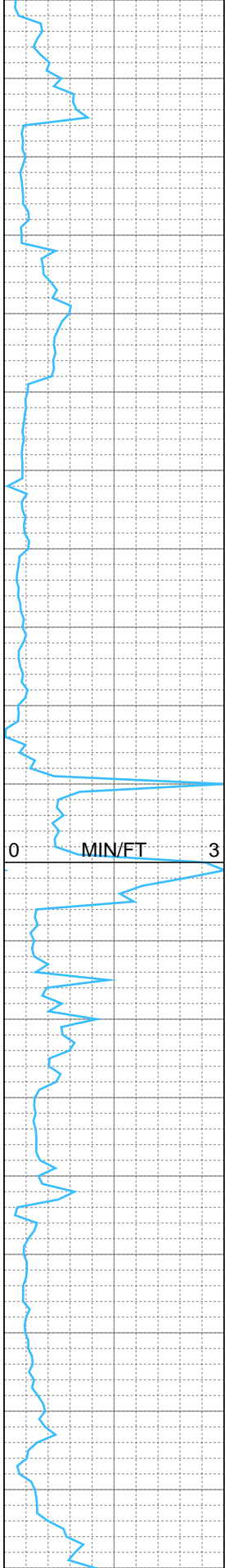
MUD WT. 9.4
VIS. 60



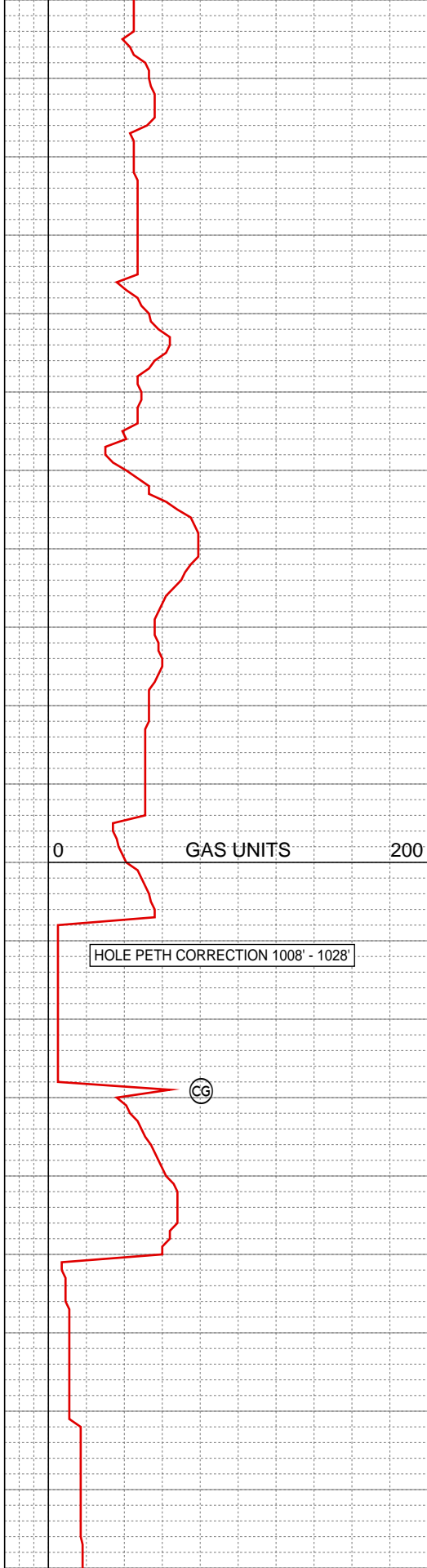
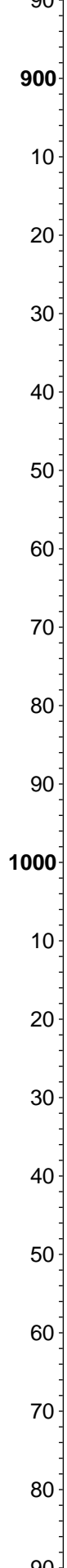
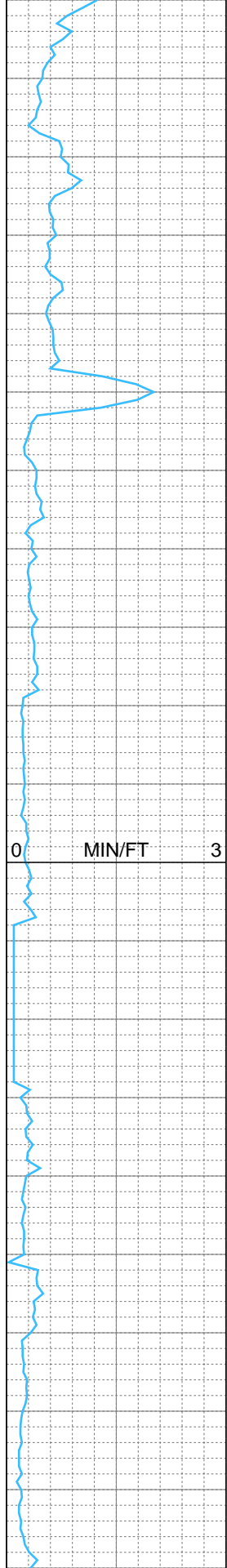
MUD WT. 9.5
VIS. 61

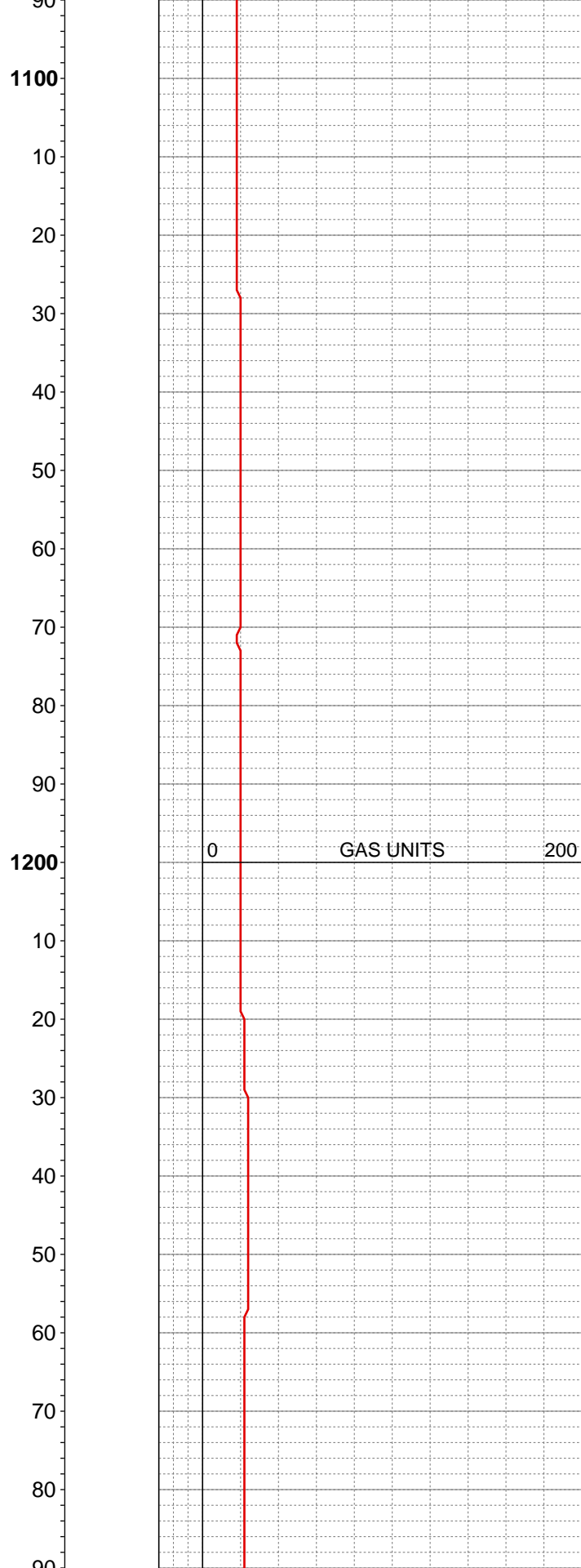
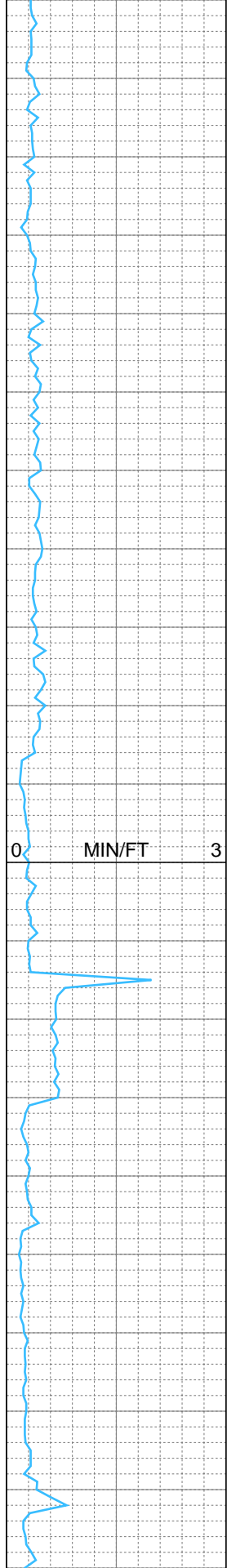
MUD WT. 9.5
VIS. 61

MUD WT. 9.5
VIS. 60



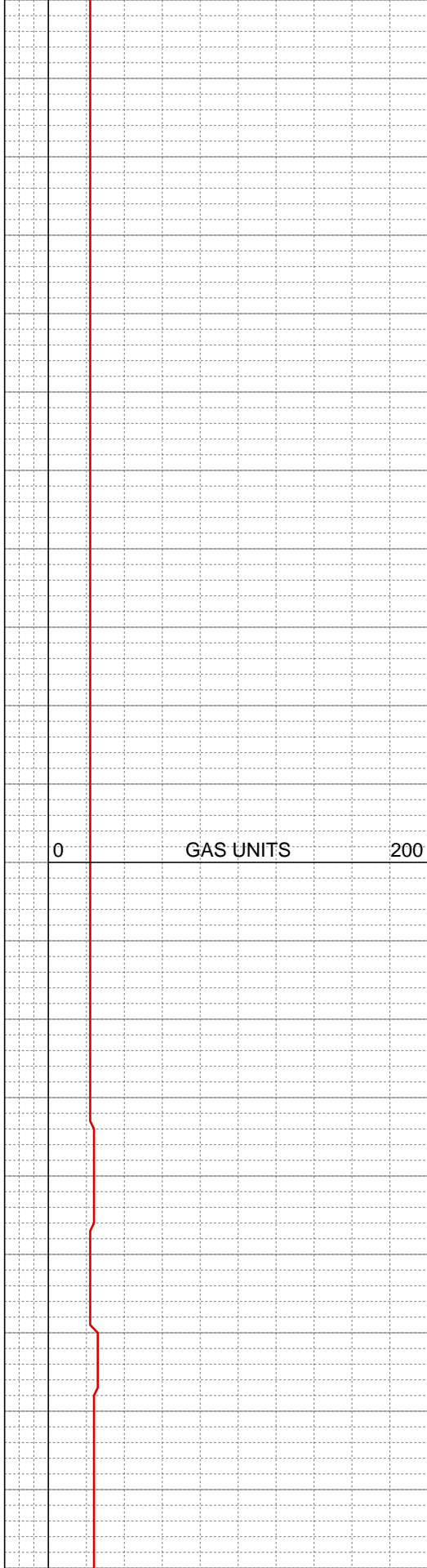
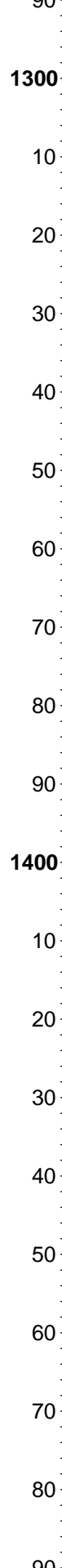
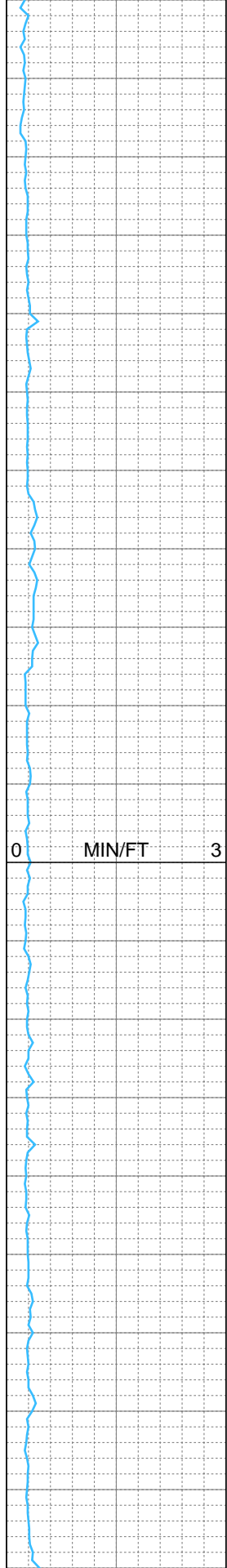
MUD WT. 9.4
VIS. 60





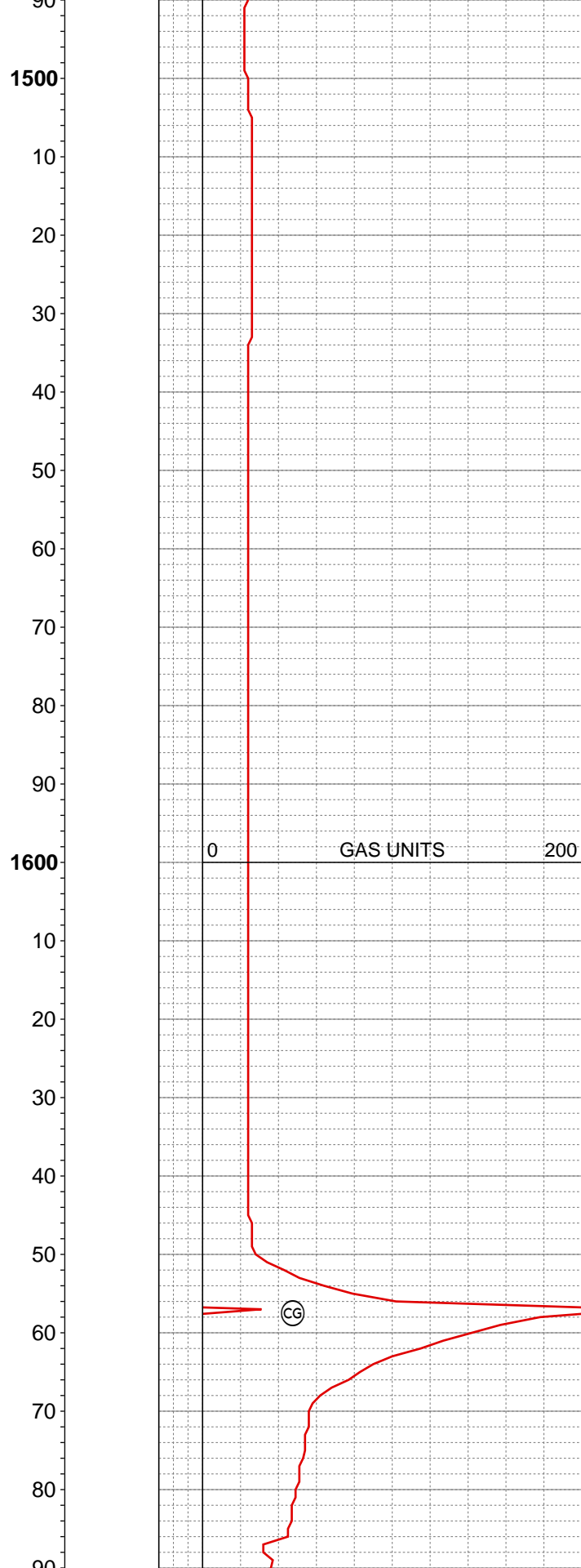
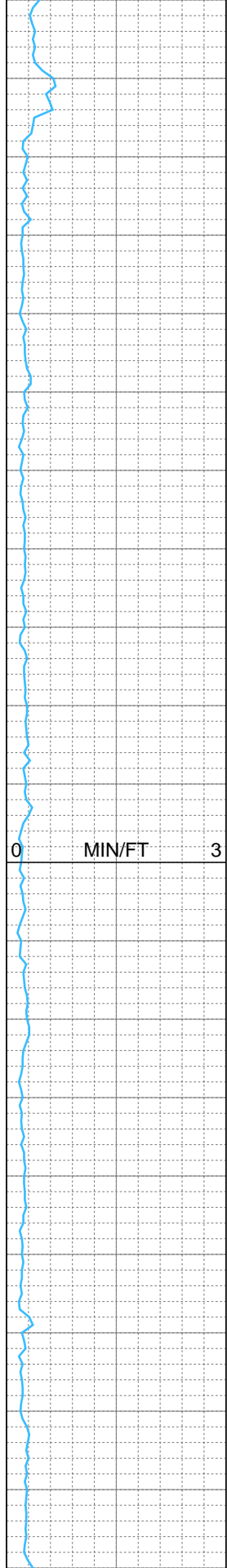
MUD WT. 9.2+
VIS 46

MUD WT. 9.3
VIS 52



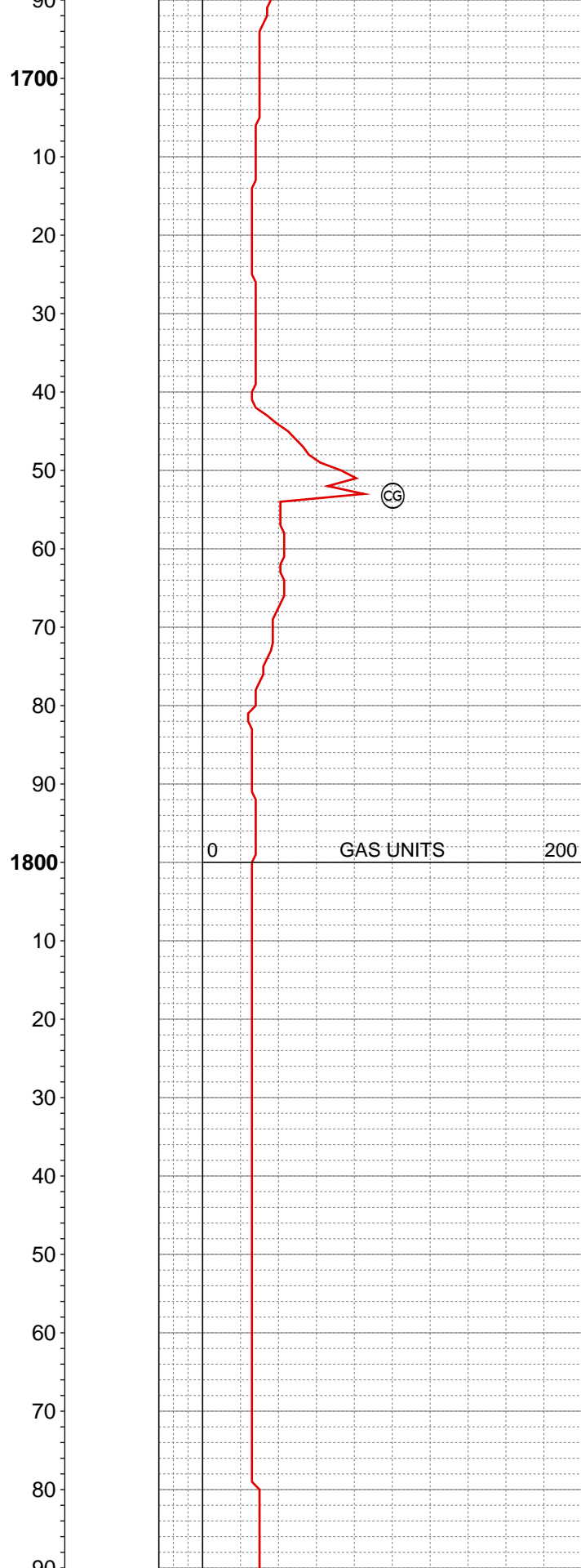
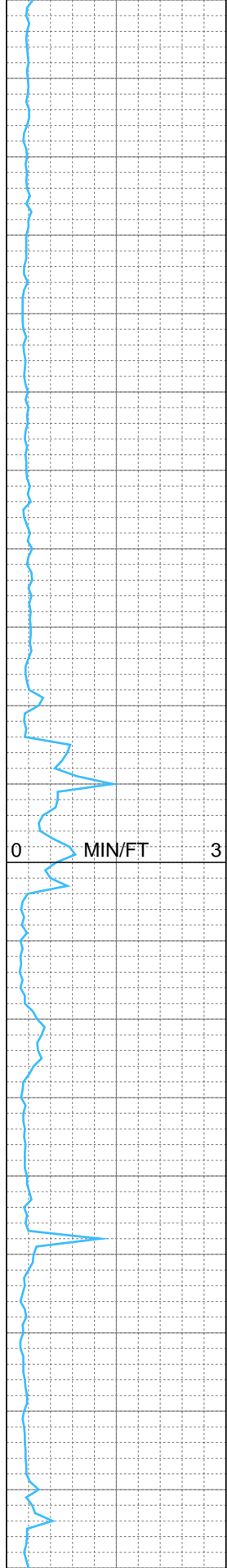
MUD WT. 9.3
VIS 43

MUD WT. 9.3+
VIS 48



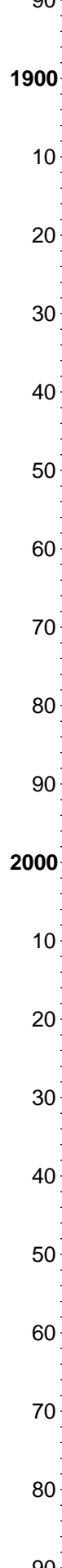
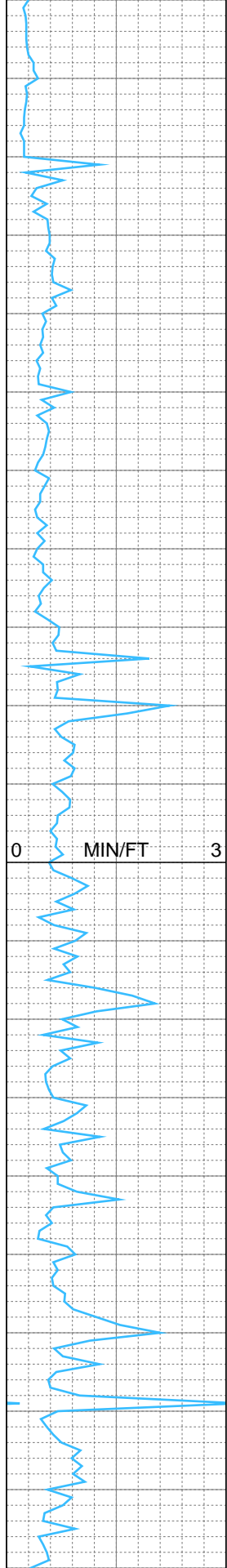
MUD WT. 9.3
VIS 44

MUD WT. 9.3
VIS 49



MUD WT. 9.3+
VIS 53

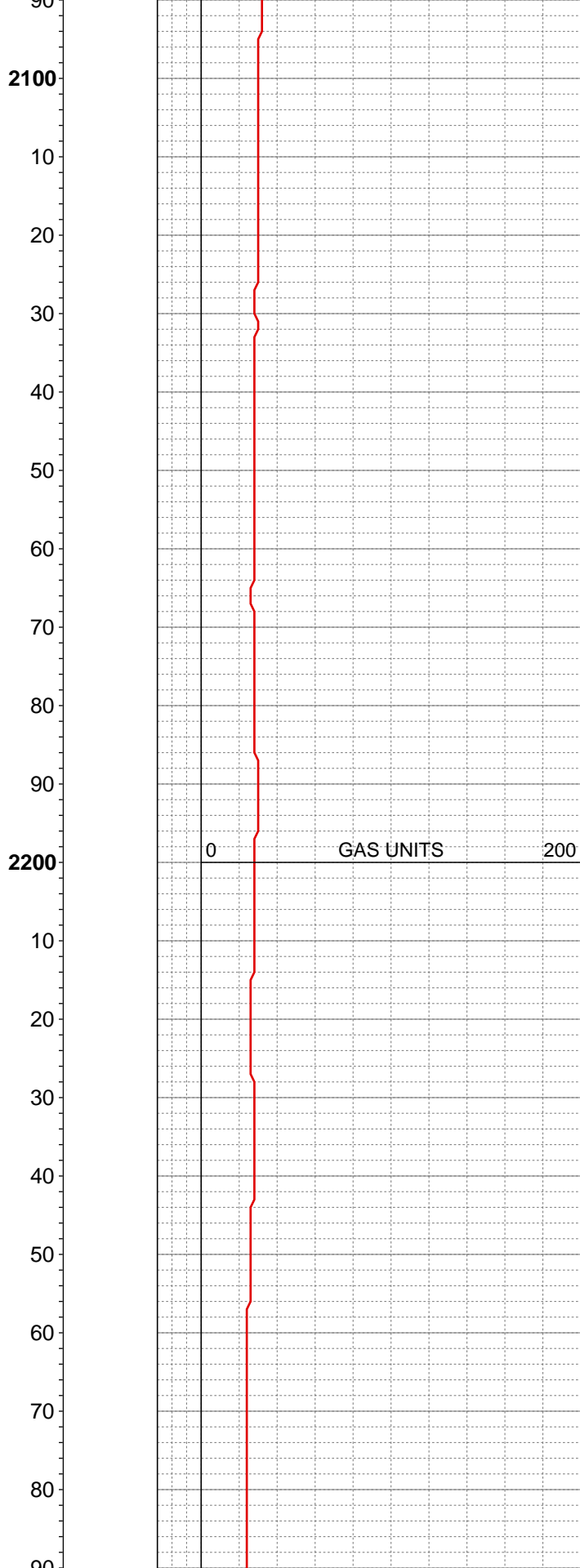
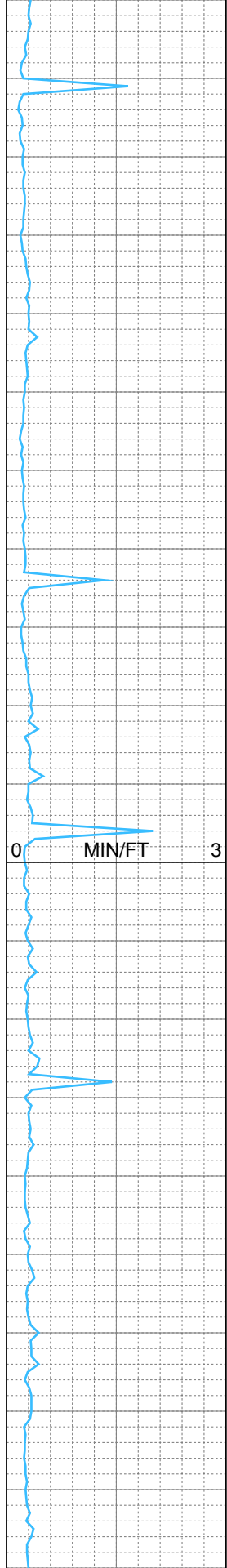
MUD WT. 9.3+
VIS 49



MUD WT. 9.4
VIS 50

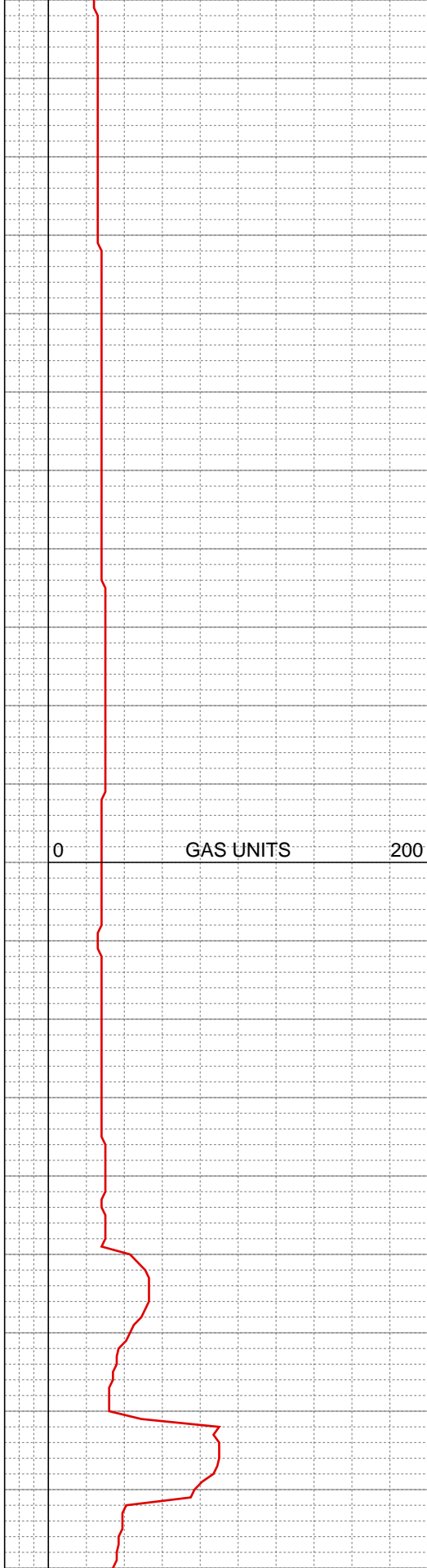
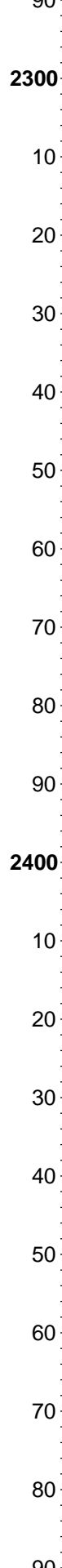
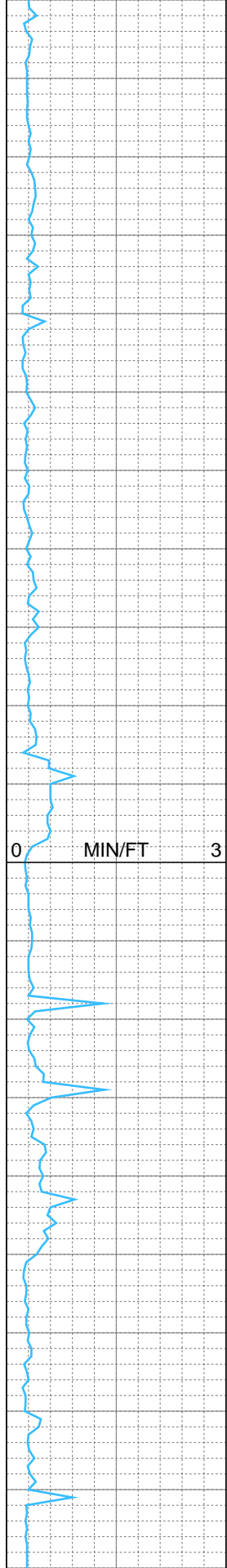
MUD WT. 9.4
VIS 54

MUD WT. 9.4+
VIS 49



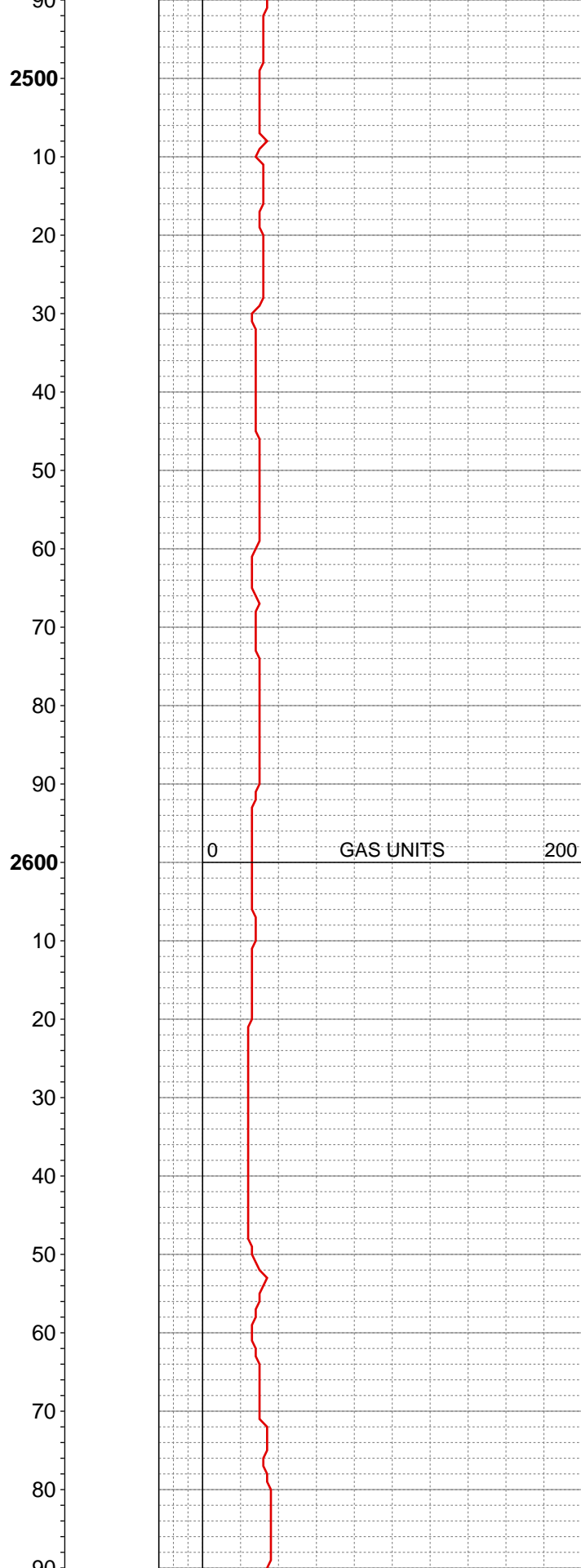
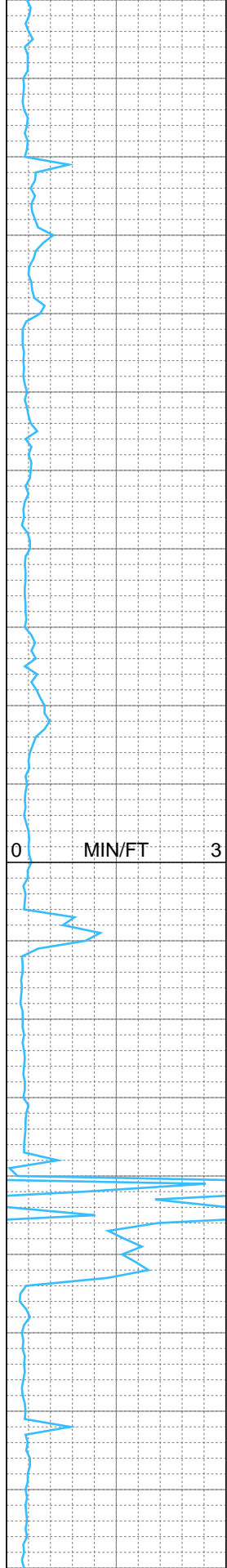
MUD WT. 9.4+
VIS 51

MUD WT. 9.5
VIS 50

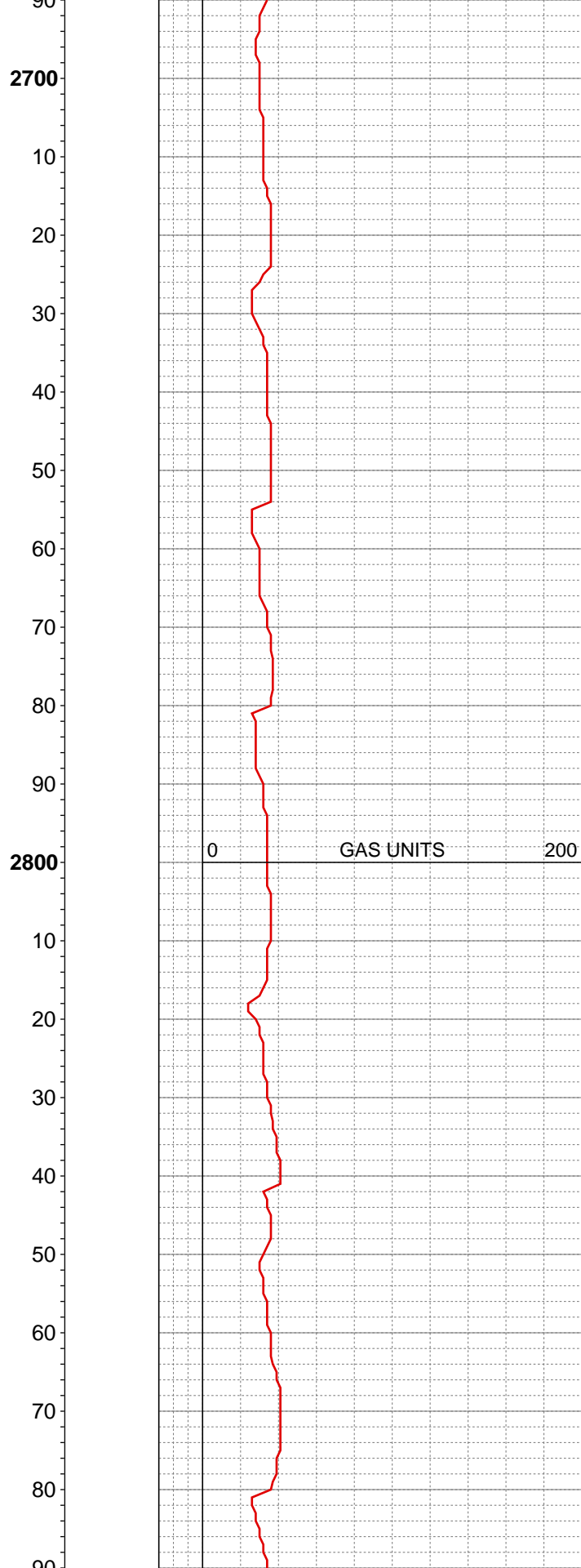
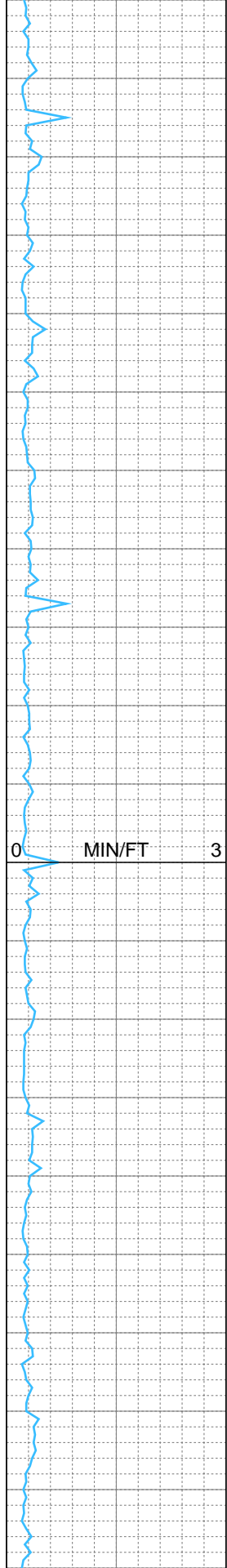


MUD WT. 9.4+
VIS 49

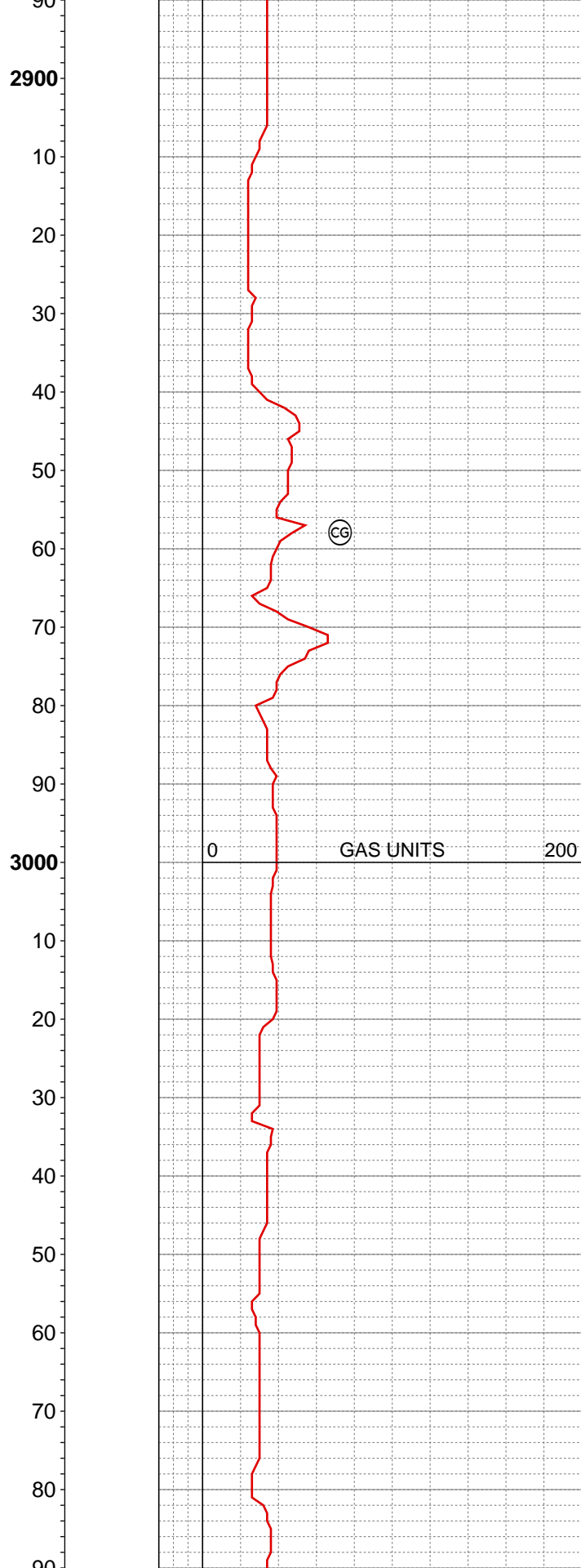
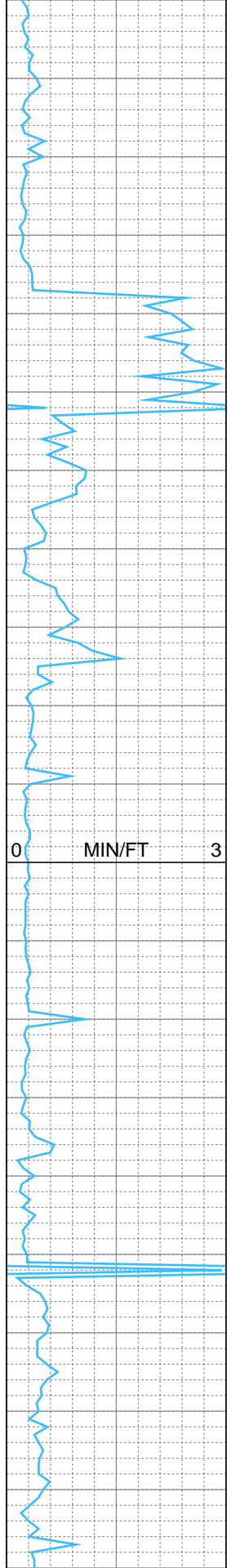
MUD WT. 9.6
VIS 60



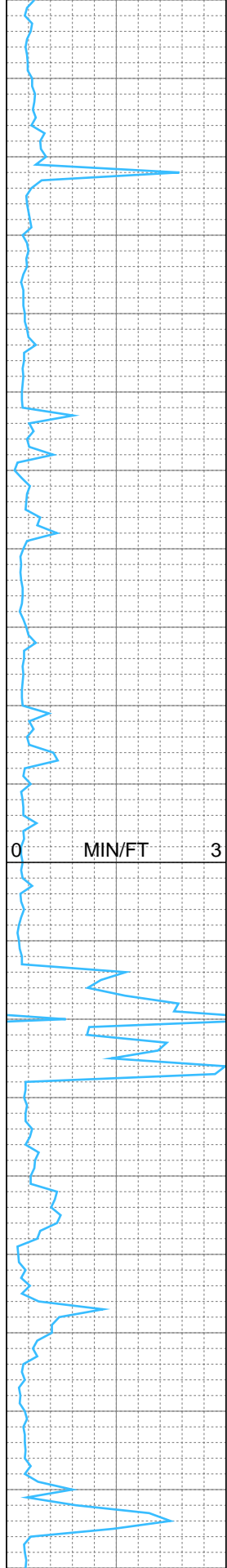
MUD WT. 9.5
VIS 60



MUD WT. 9.5+
VIS 50



MUD WT. 9.5+
VIS 52



3100

10

20

30

40

50

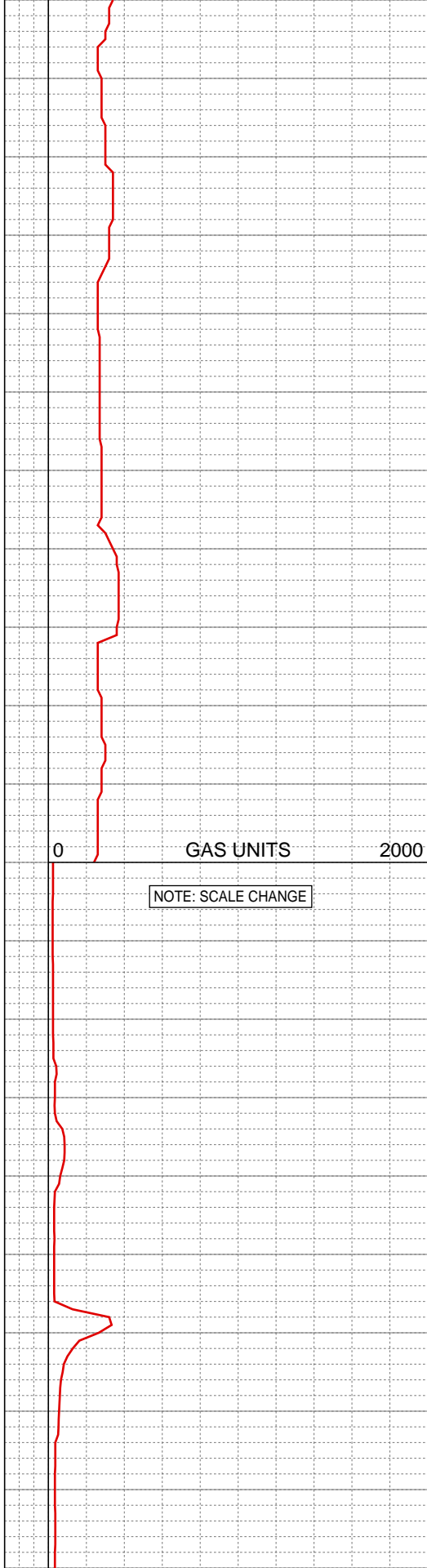
60

70

80

90

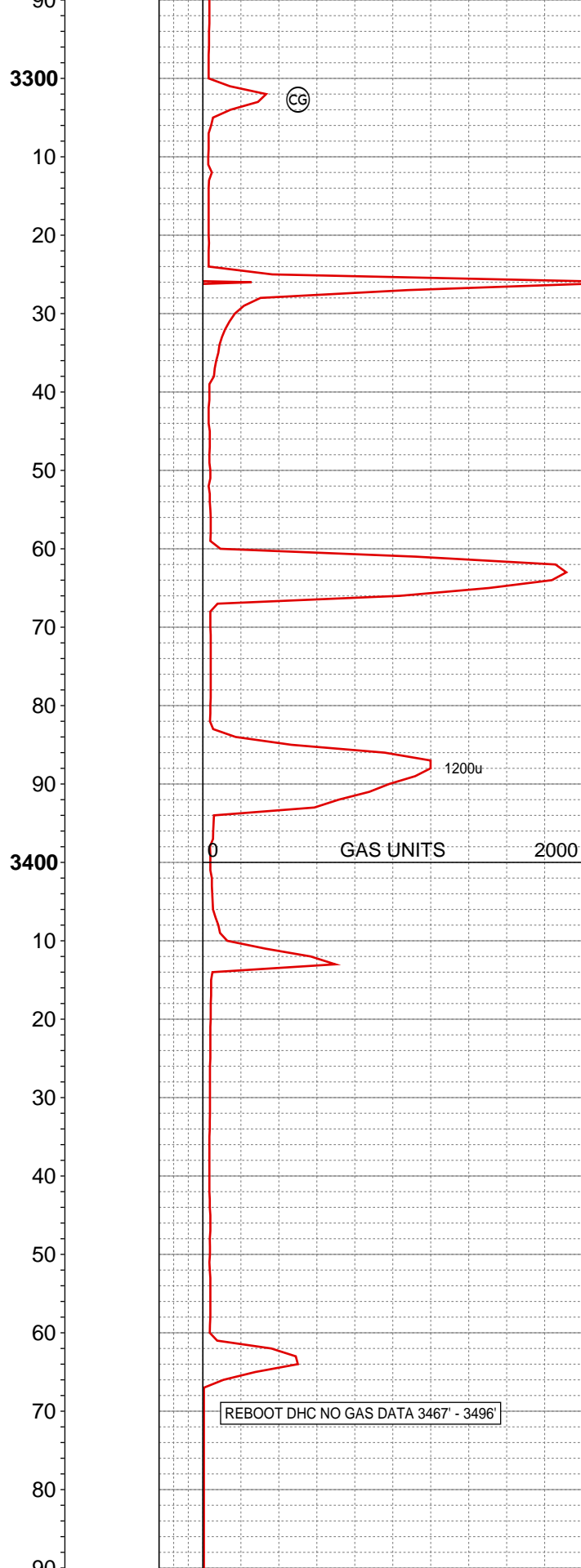
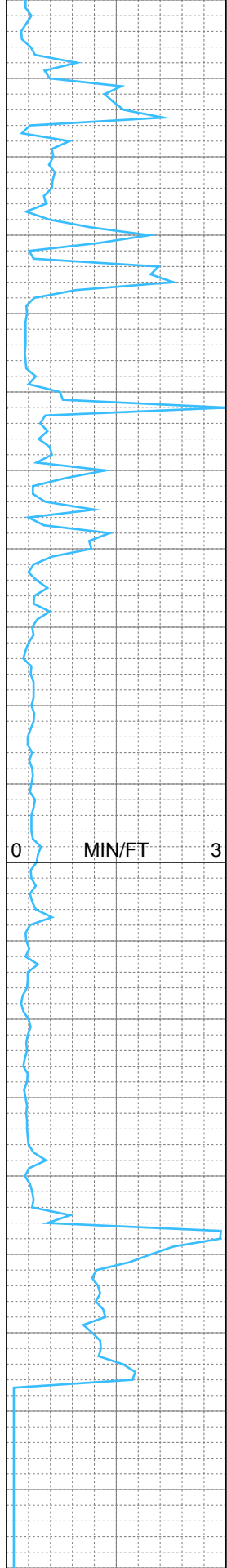
3200



MUD WT. 9.5+
VIS 52

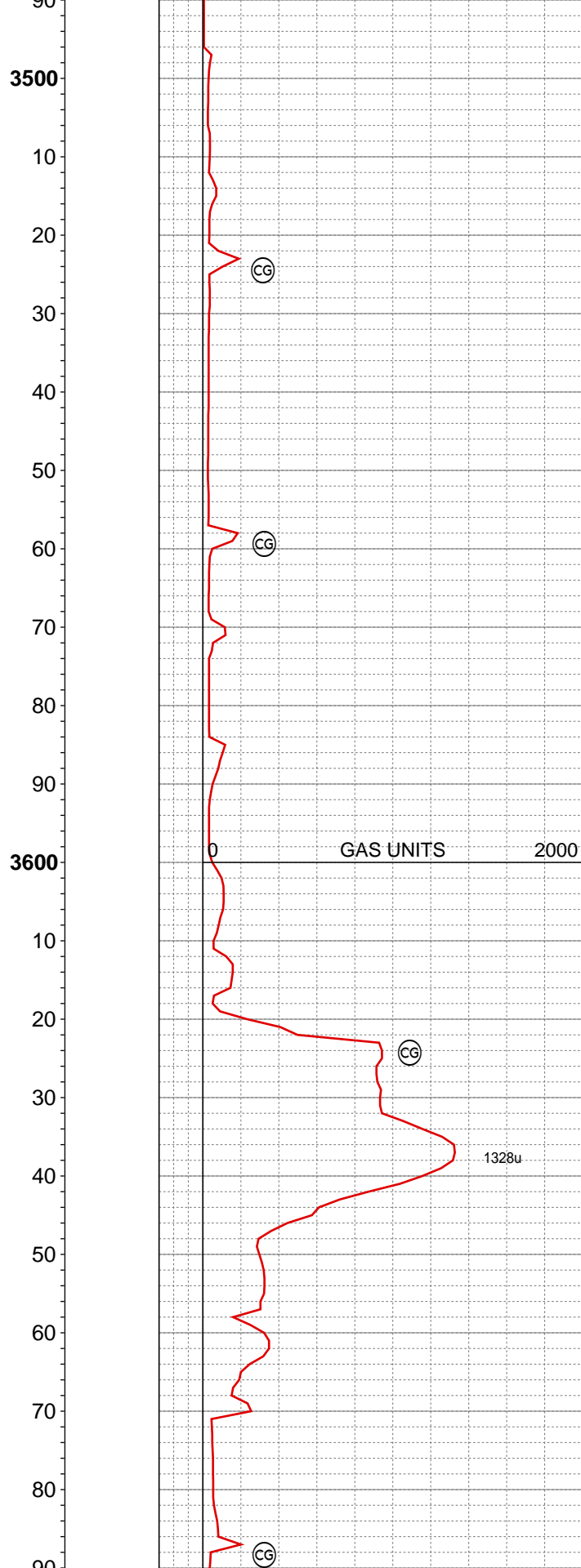
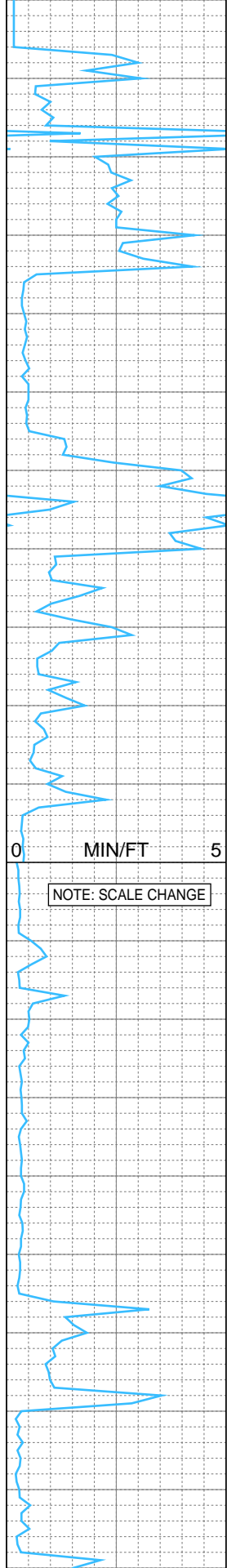
MUD WT. 9.6
VIS 52

MUD WT. 9.6
VIS 53



MUD WT. 9.5+
VIS 50

MUD WT. 9.5+
VIS. 52

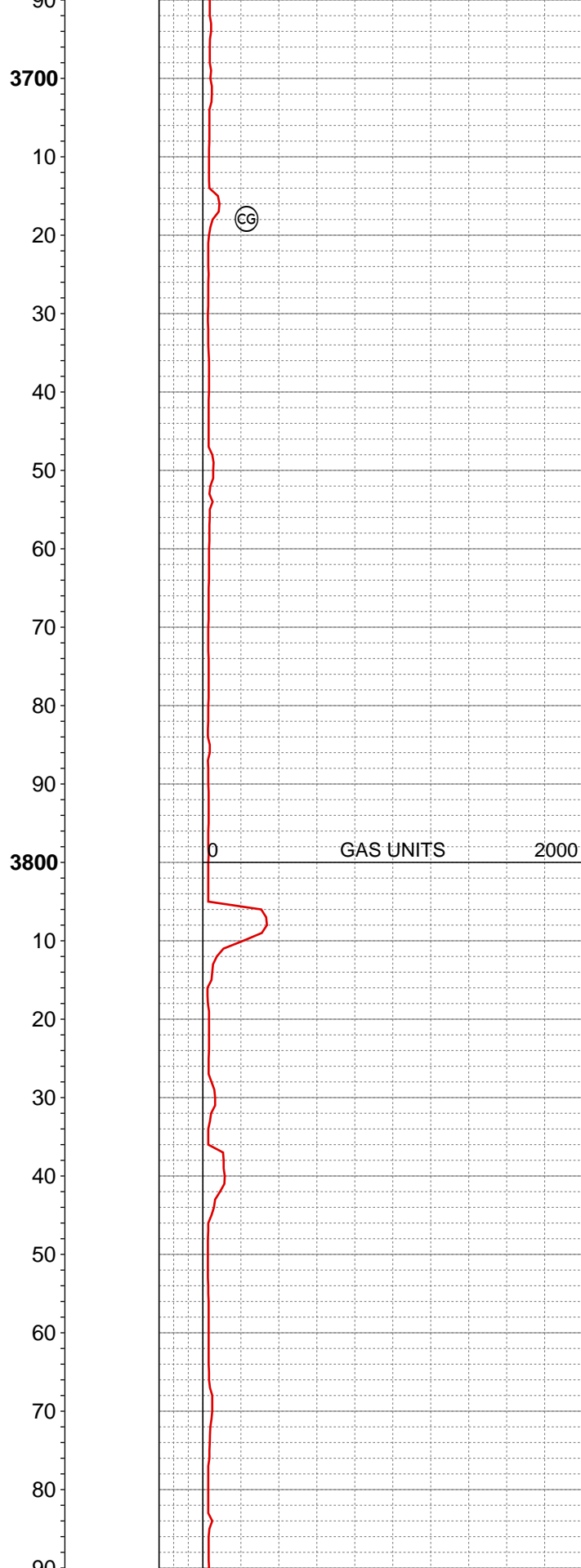
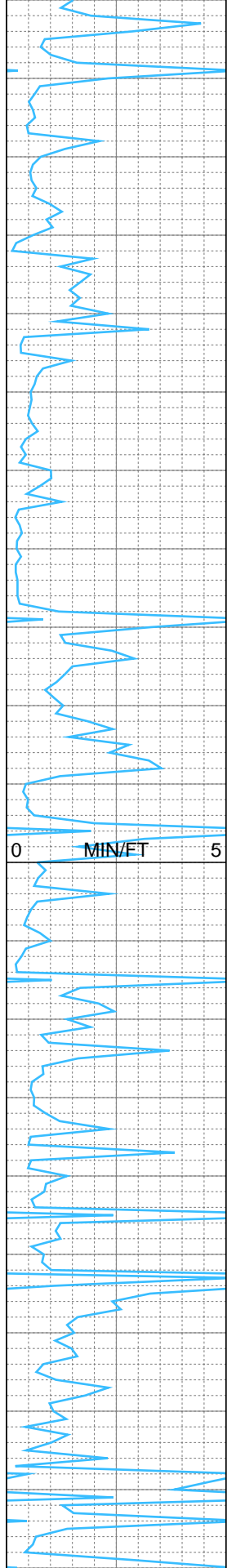


MUD WT. 9.5+
VIS. 49

MUD WT. 9.4+
VIS. 47

MUD WT. 9.4
VIS. 49

MUD WT. 9.4
VIS. 48



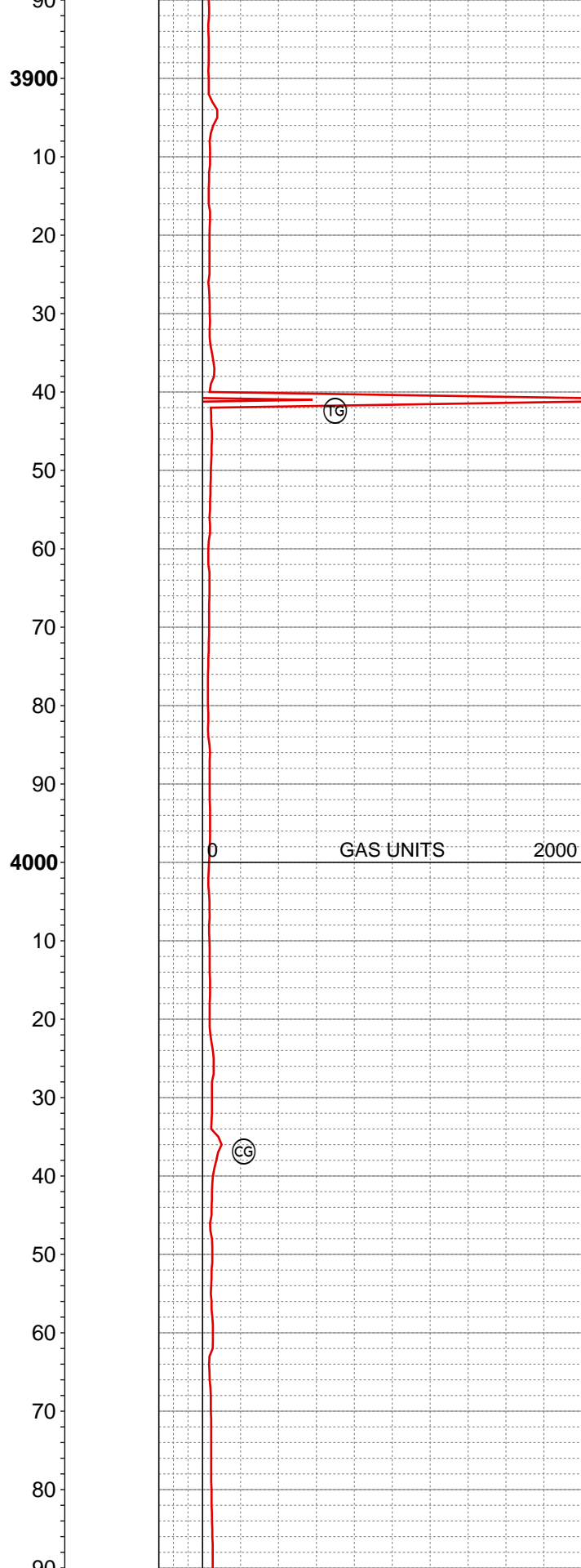
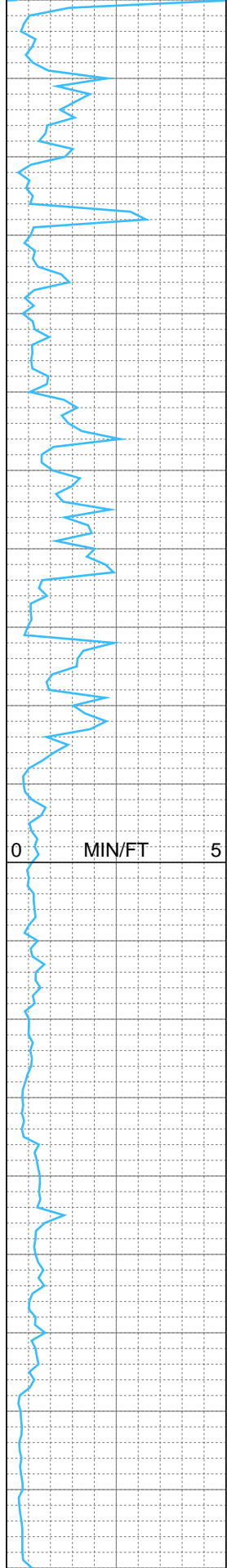
MUD WT. 9.4+
VIS. 49

MUD WT. 9.4+
VIS. 49

MUD WT. 9.4+
VIS. 49

MUD WT. IN 9.4+/OUT 9.4+
VIS. IN 56/OUT 49

MUD WT. IN 9.4+/OUT 9.4+
VIS. IN 53/OUT 56

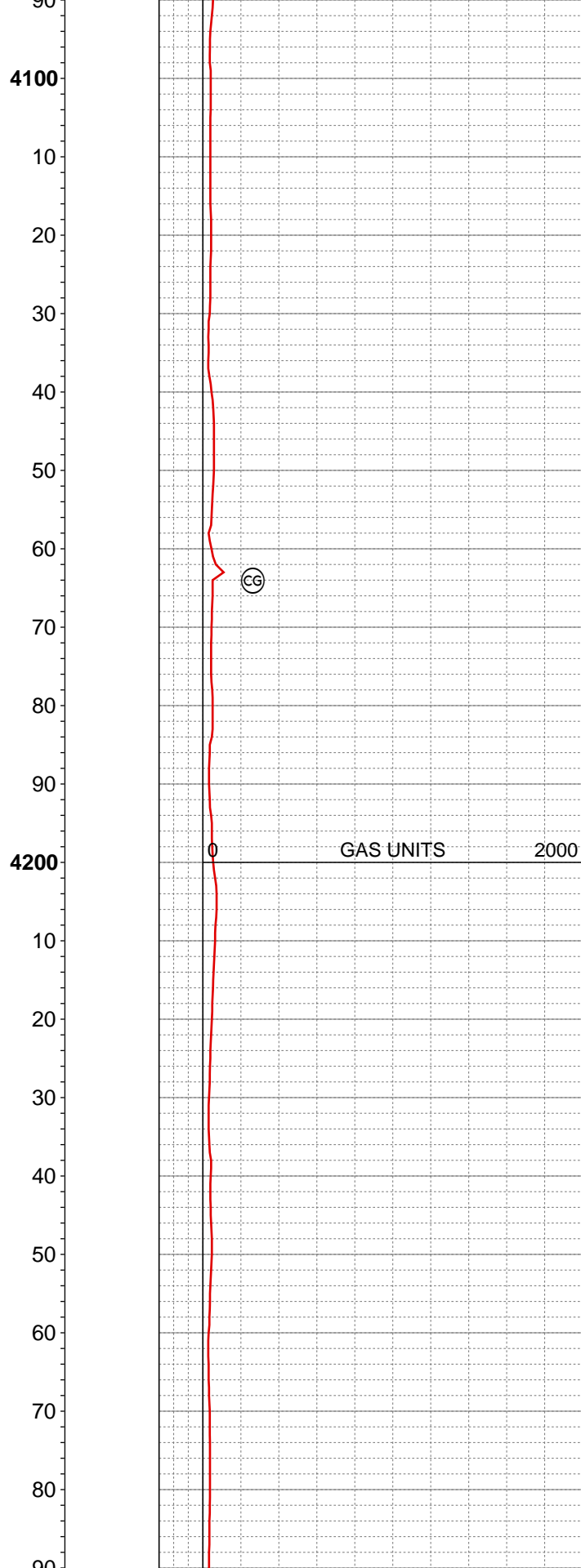
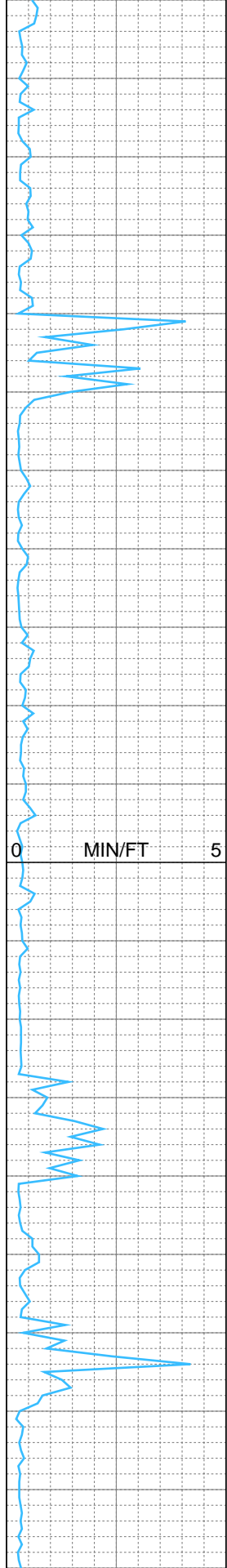


MUD WT. IN 9.4/OUT 9.4
VIS. IN 55/OUT 50

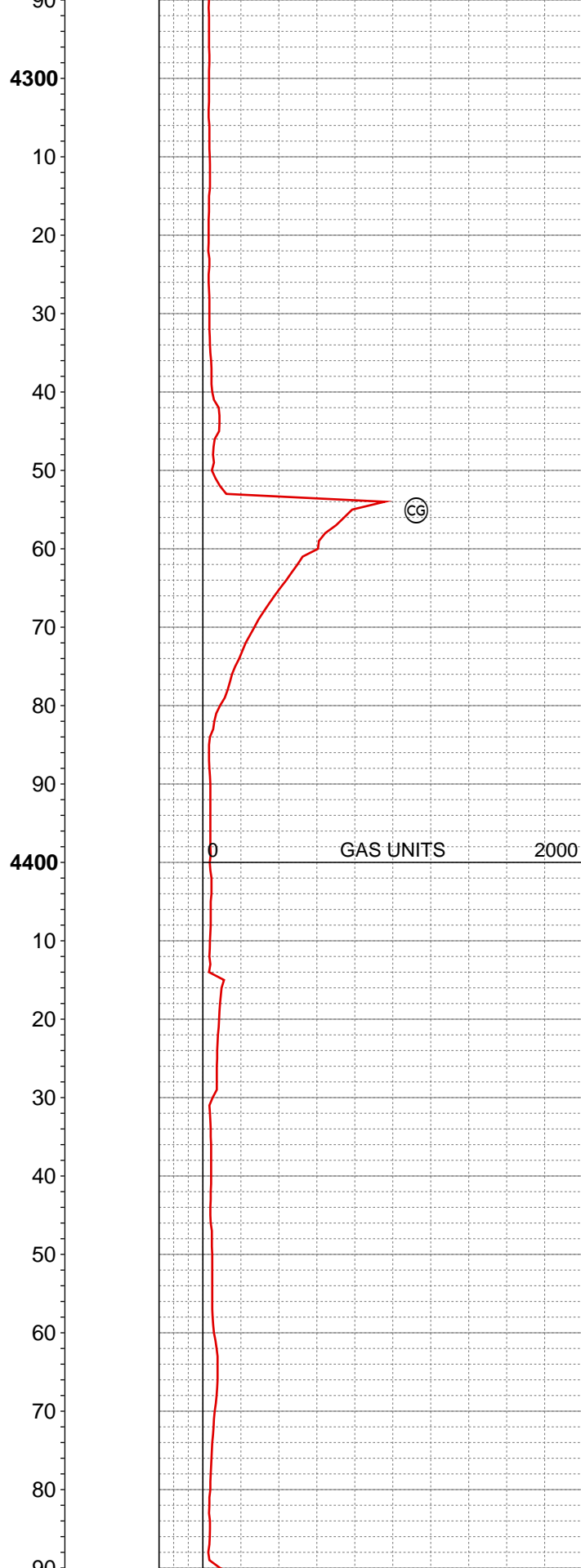
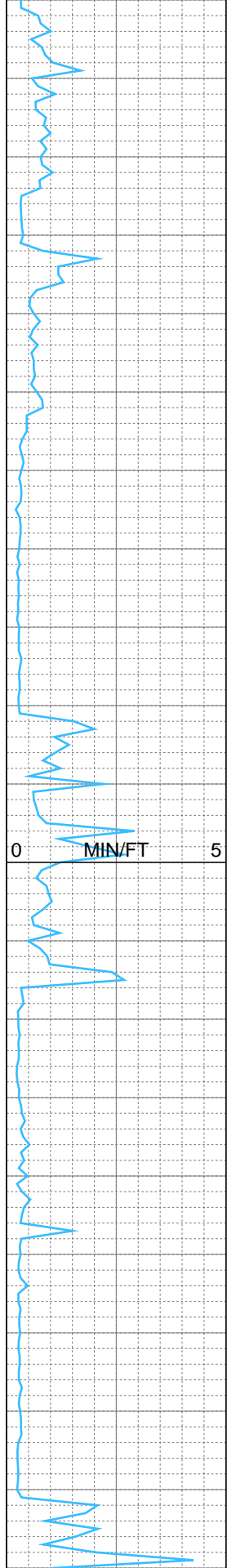
TRIP GAS = 2578u

MUD WT. IN 9.4/OUT 9.4
VIS. IN 63/OUT 63

MUD WT. IN 9.4/OUT 9.4
VIS. IN 65/OUT 56



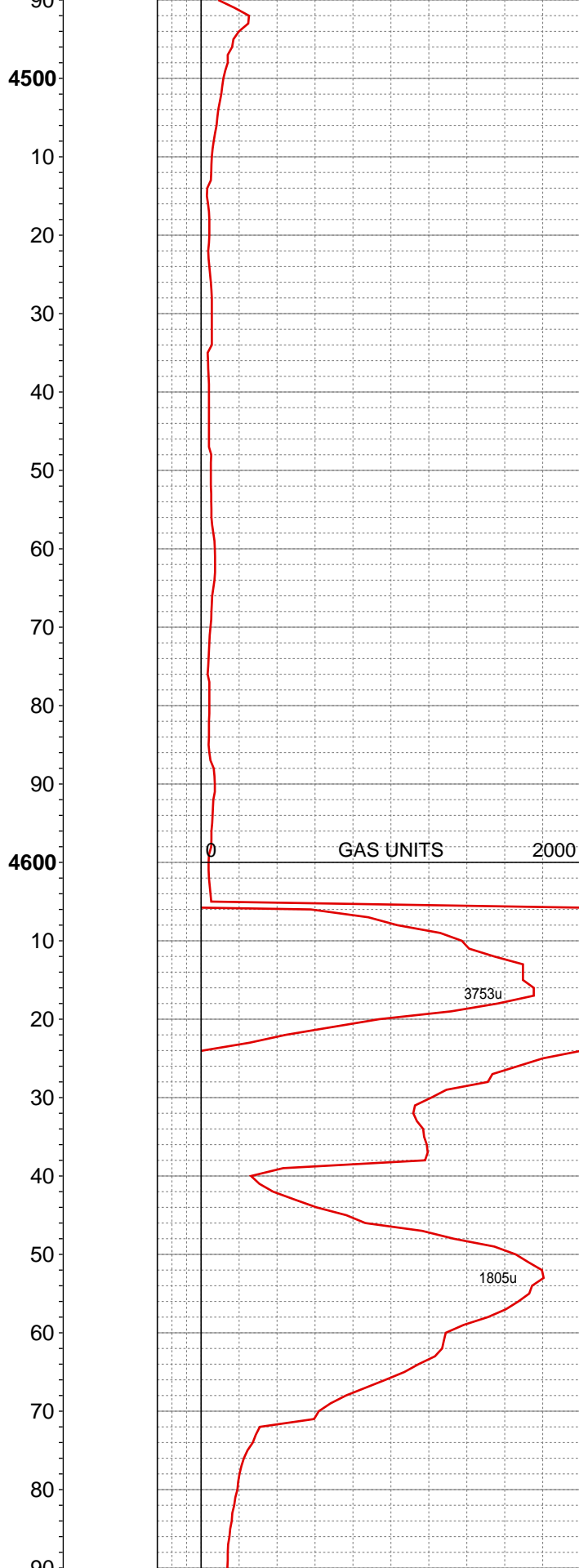
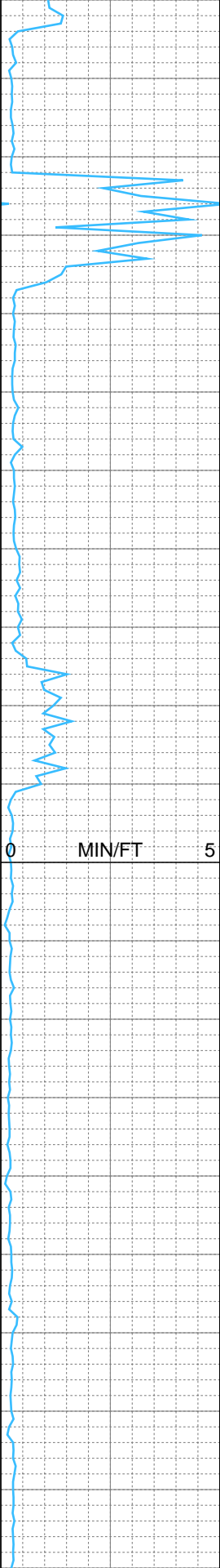
MUD WT. IN 9.4/OUT 9.4
VIS. IN 56/OUT 49



MUD WT. IN 9.4/OUT 9.4
VIS. IN 61/OUT 50

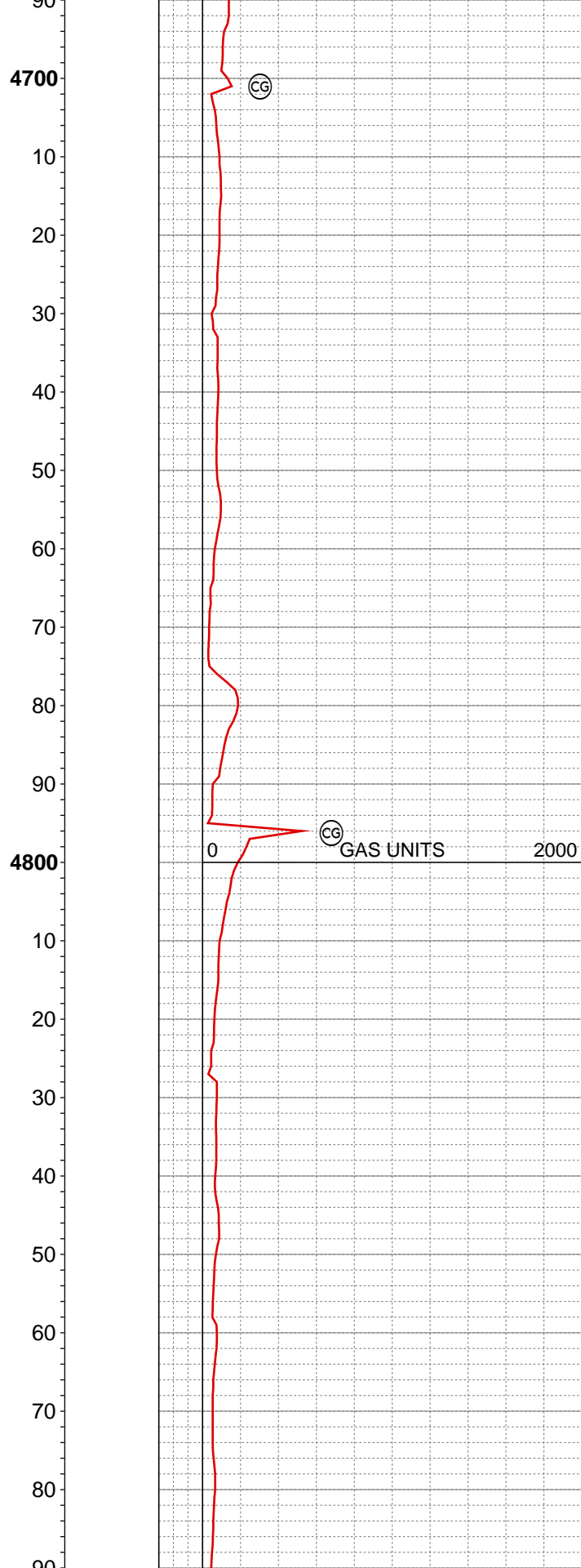
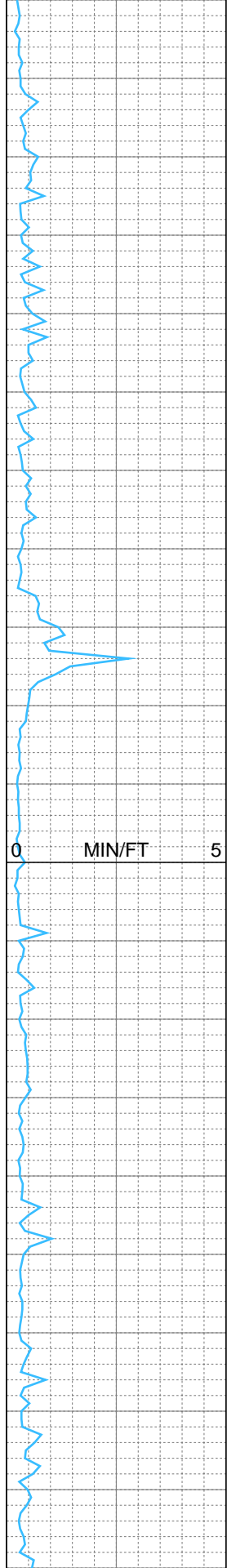
MUD WT. IN 9.4/OUT 9.4
VIS. IN 60/OUT 54

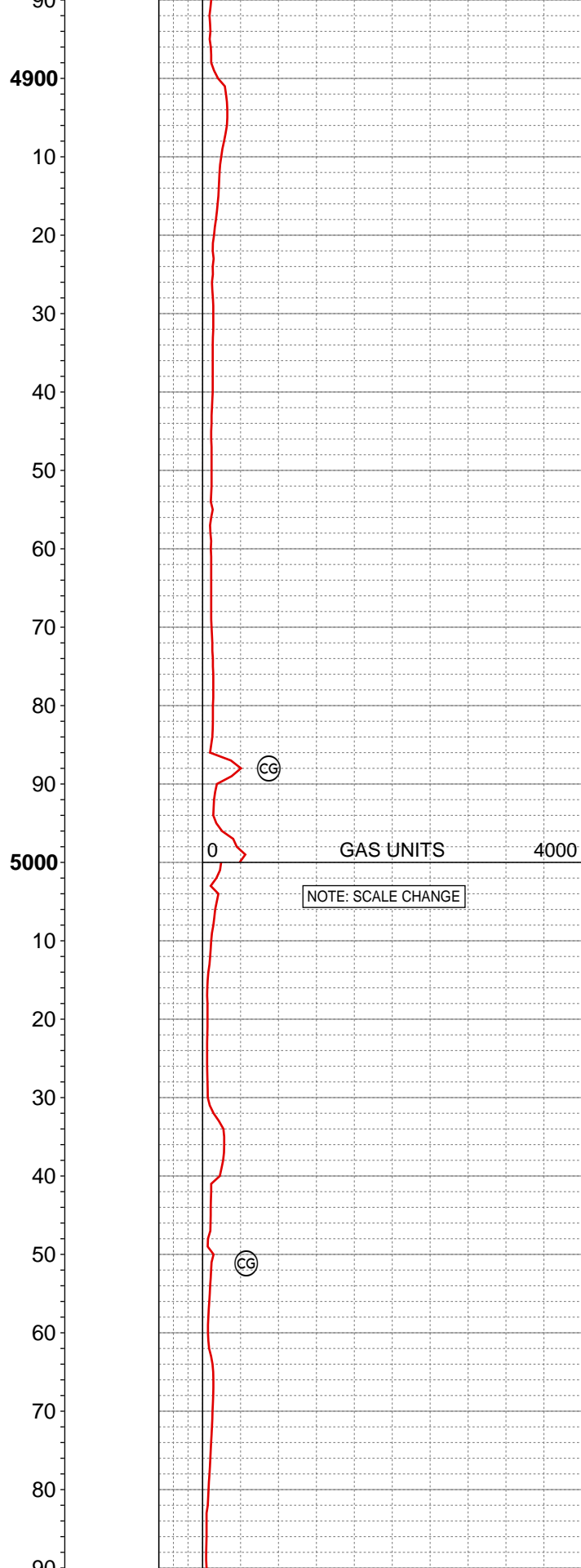
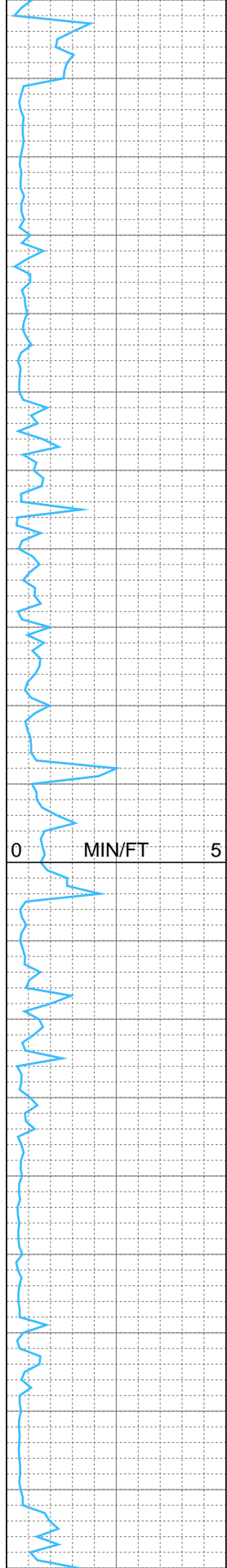
MUD WT. 9.4
VIS. 60



MUD WT. IN 9.4/OUT 9.4
VIS. IN 60/OUT 58

MUD WT. IN 9.4/OUT 9.4
VIS. IN 65/OUT 49



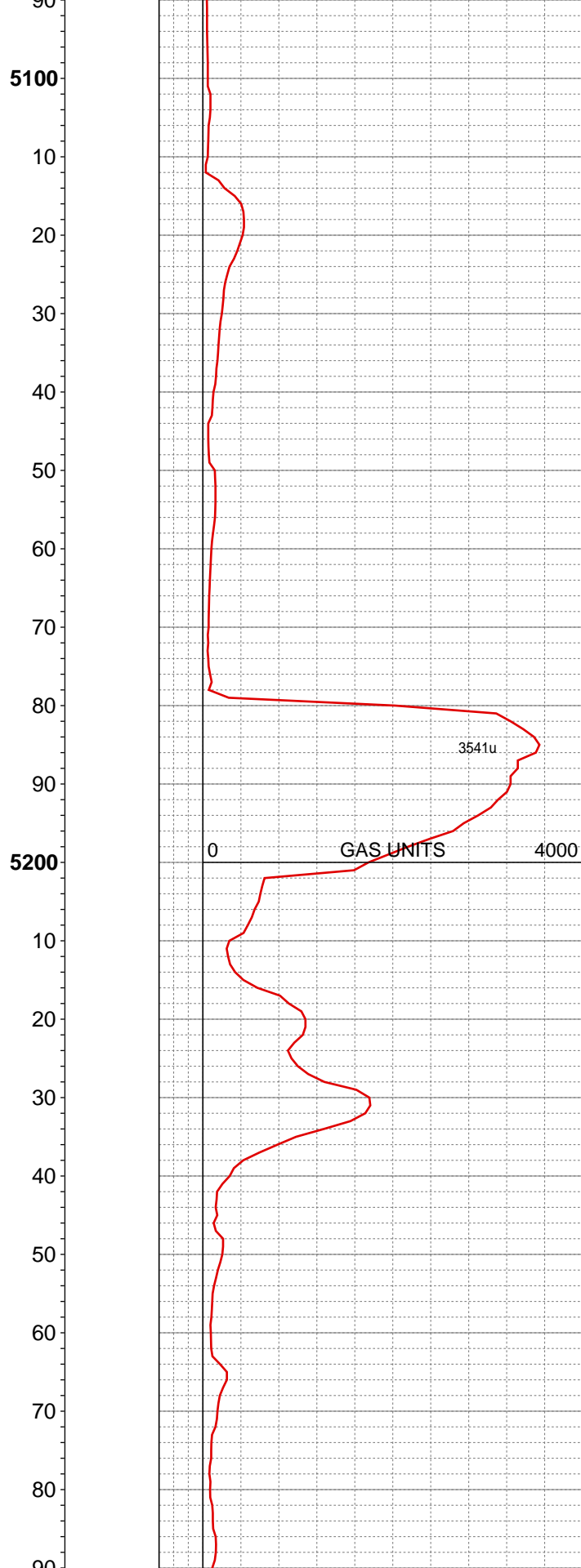
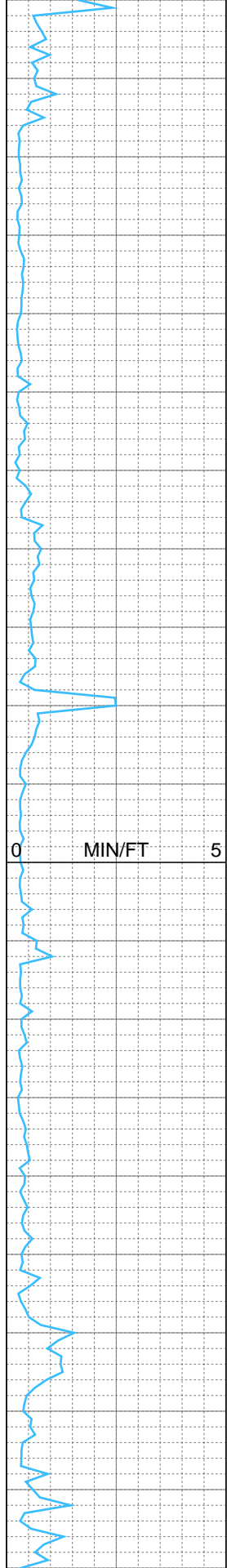


VIS. 55

MUD WT. 9.4
VIS. 54

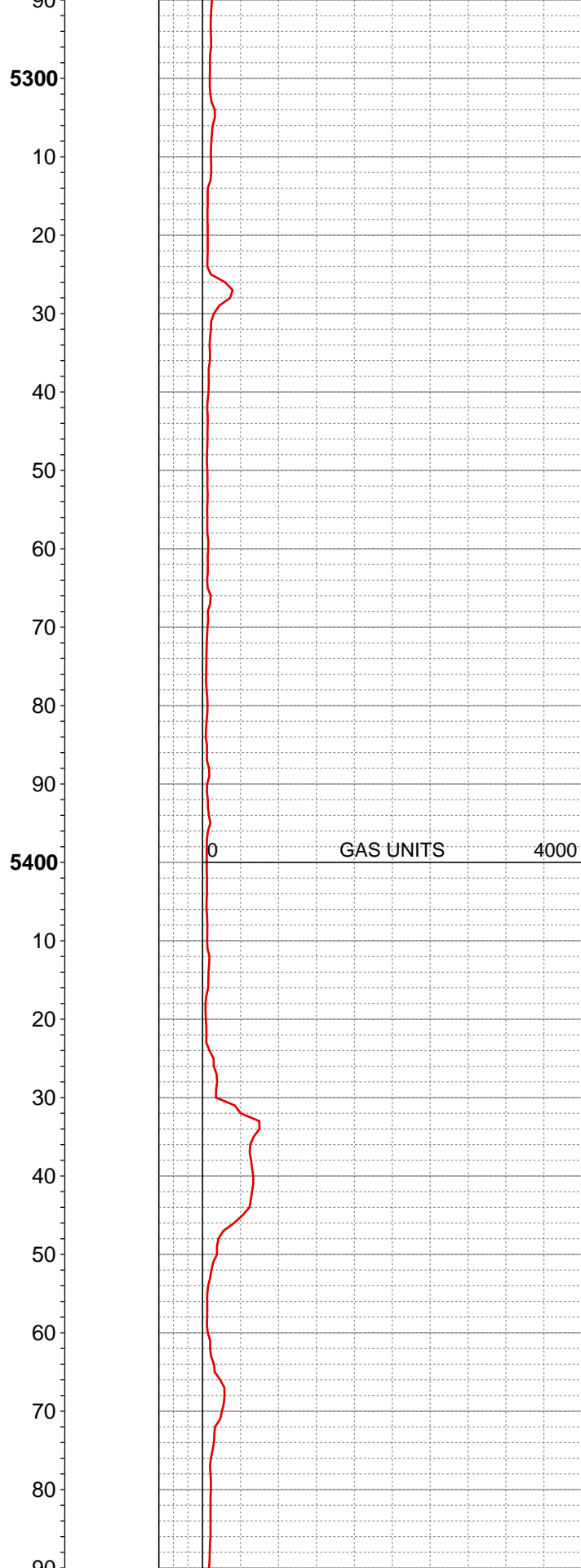
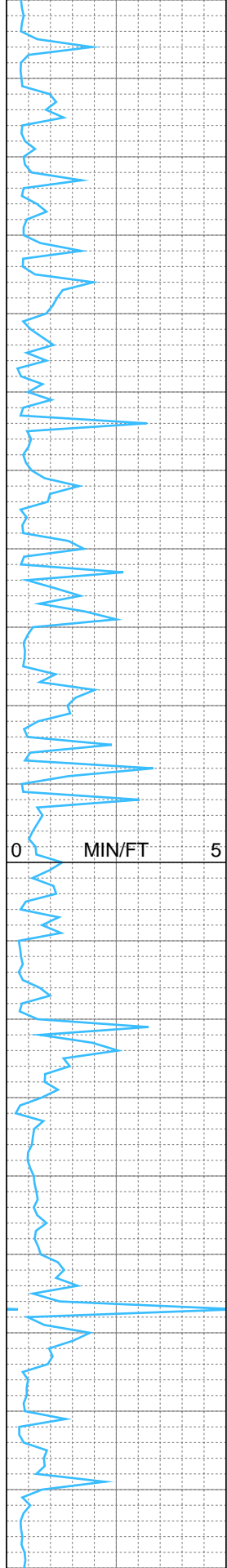
MUD WT. 9.4
VIS. 58

MUD WT. 9.4
VIS. 63



MUD WT. 9.4
VIS. 65

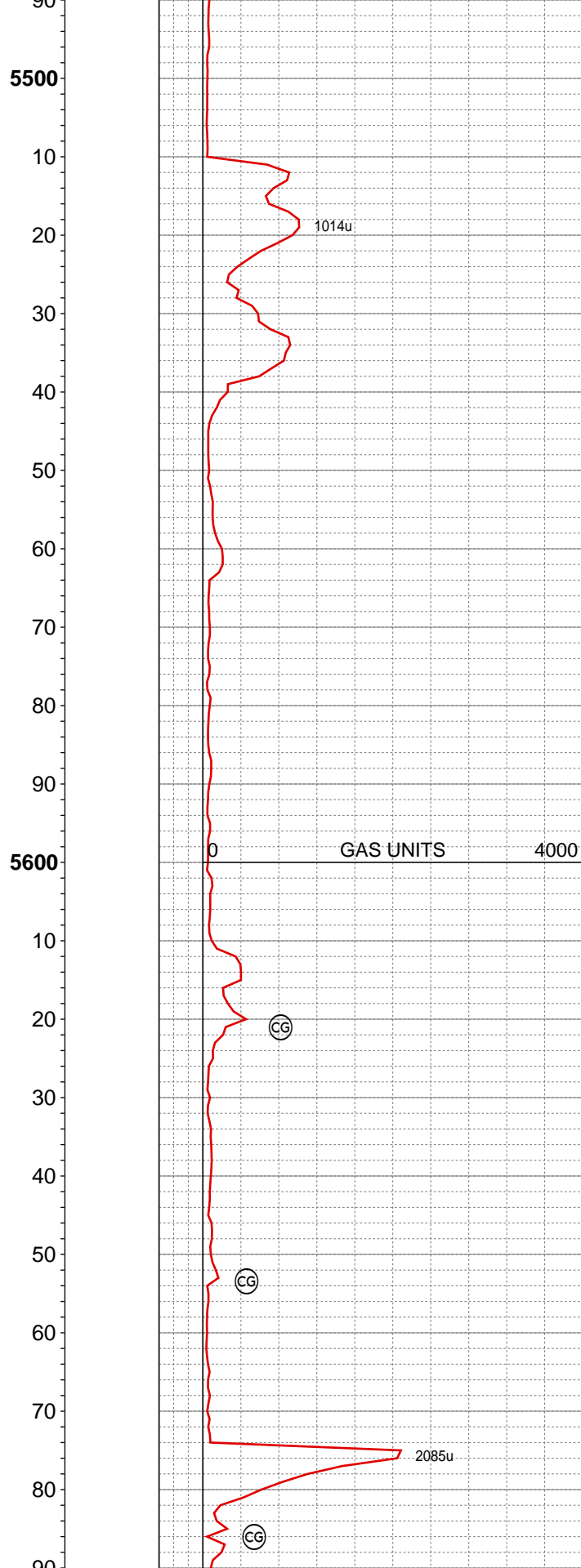
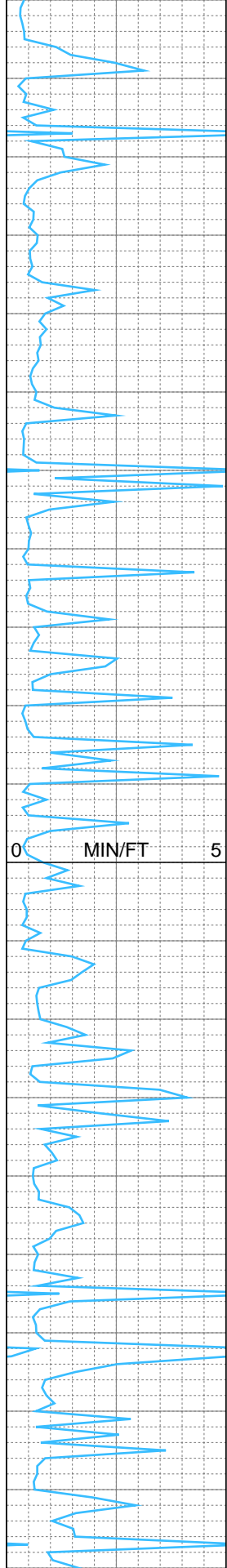
MUD WT. 9.4
VIS. 56



MUD WT. 9.4+
VIS. 53

MUD WT. 9.4+
VIS. 58

MUD WT. 9.4
VIS. 50

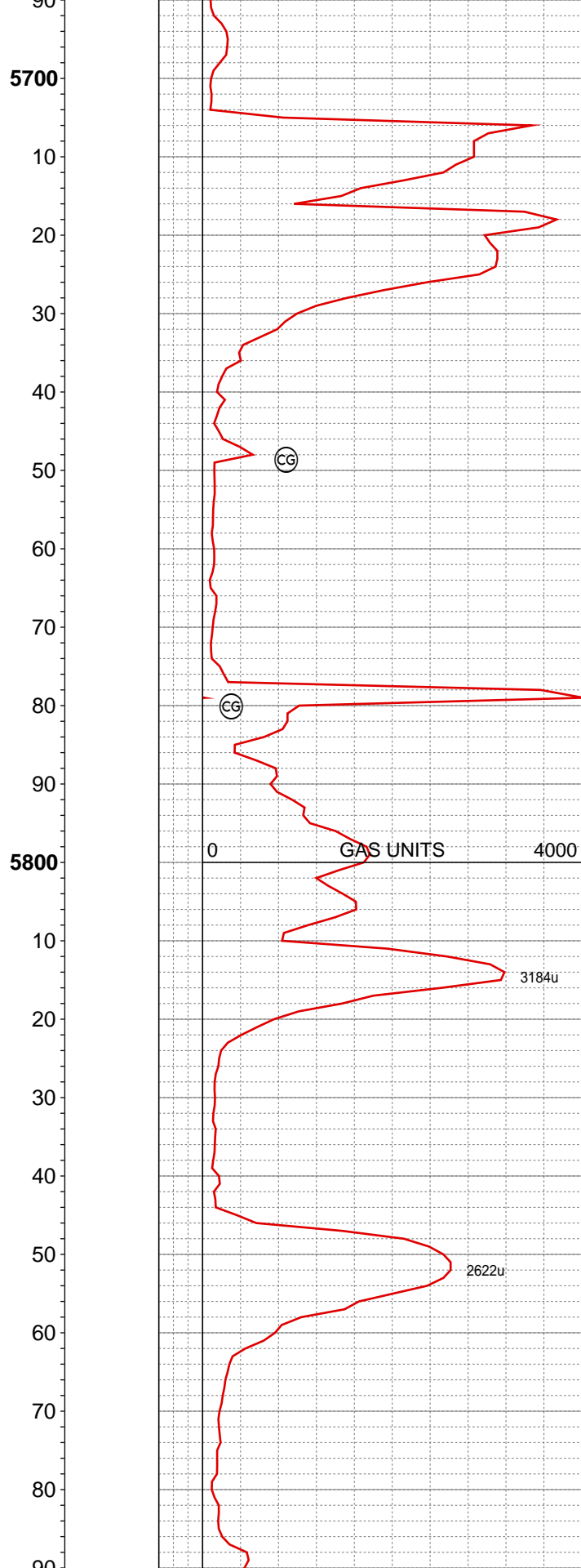
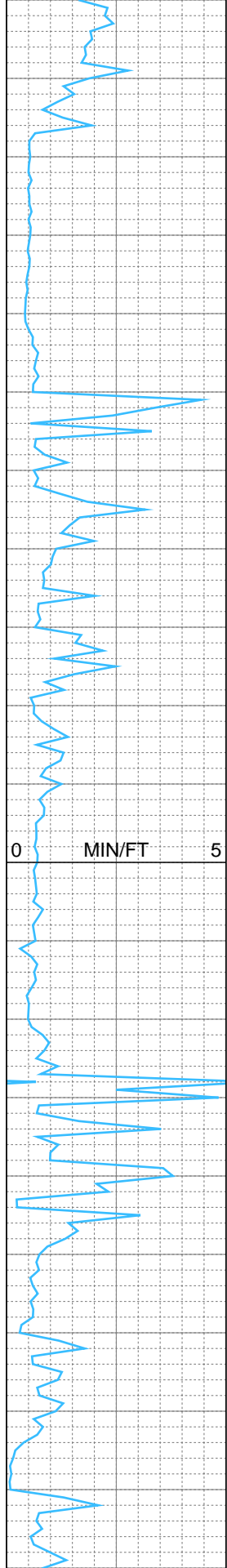


MUD WT. IN 9.4/OUT 9.4
VIS. IN 65/OUT 48

MUD WT. 9.4
VIS. 60

MUD WT. 9.4
VIS. 55

MUD WT. IN 9.4/OUT 9.4
VIS. IN 54/OUT 48

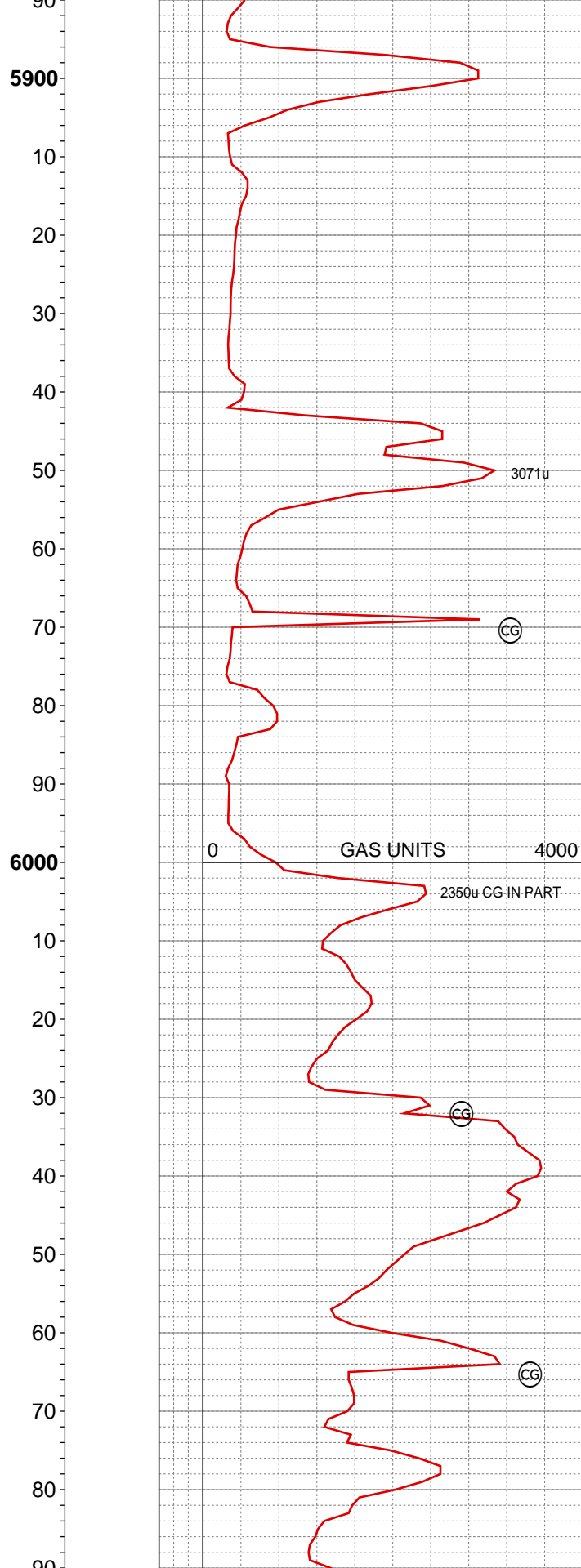
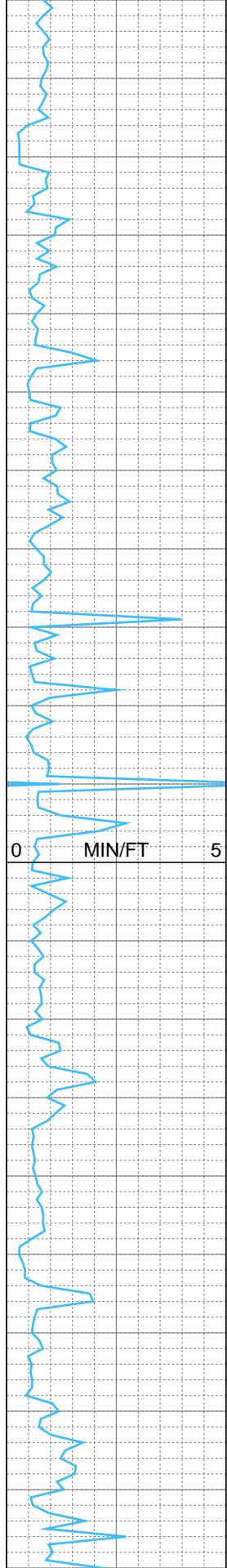


MUD WT. IN 9.4/OUT 9.4
VIS. IN 48/OUT 44

MUD WT. IN 9.4/OUT 9.4
VIS. IN 60/OUT 45

MUD WT. IN 9.4+/OUT 9.4+
VIS. IN 63/OUT 55

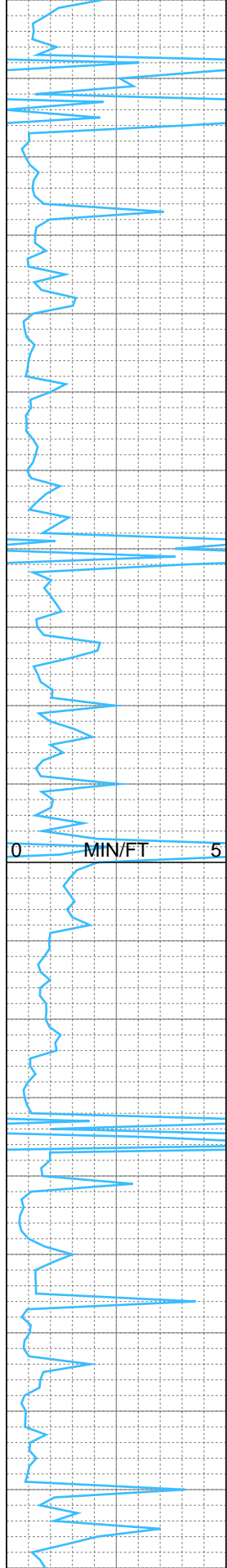
MUD WT. IN 9.4+/OUT 9.4
VIS. IN 60/OUT 53



MUD WT. IN 9.5/OUT 9.4+
VIS. IN 63/OUT 55

MUD WT. IN 9.5/OUT 9.4+
VIS. IN 55/OUT 65

MUD WT. IN 9.5/OUT 9.4+
VIS. IN 58/OUT 61



6100

10

20

30

40

50

60

70

80

90

6200

10

20

30

40

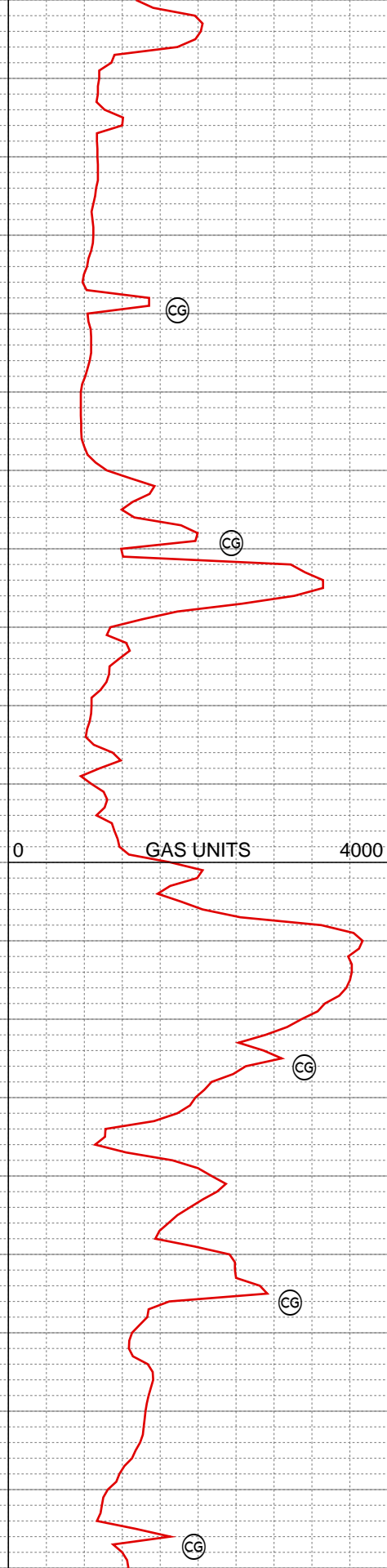
50

60

70

80

90



MUD WT. IN 9.5/OUT 9.4
VIS. IN 57/OUT 62

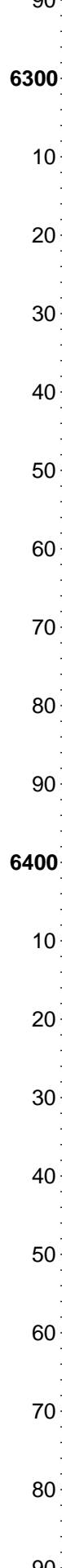
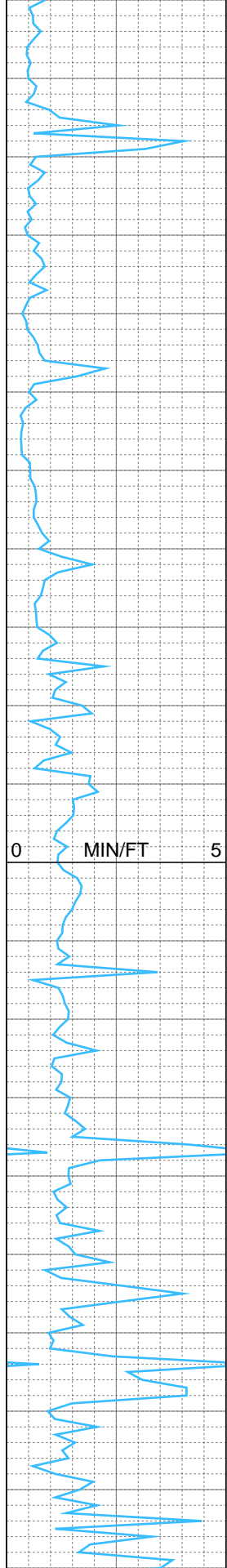
MUD WT. IN 9.5/OUT 9.4
VIS. IN 58/OUT 71

MUD WT. IN 9.4+/OUT 9.4
VIS. IN 59/OUT 78

MUD WT. IN 9.5/OUT 9.4+
VIS. IN 54/OUT 68

MUD WT. IN 9.4+/OUT 9.4
VIS. IN 53/OUT 62

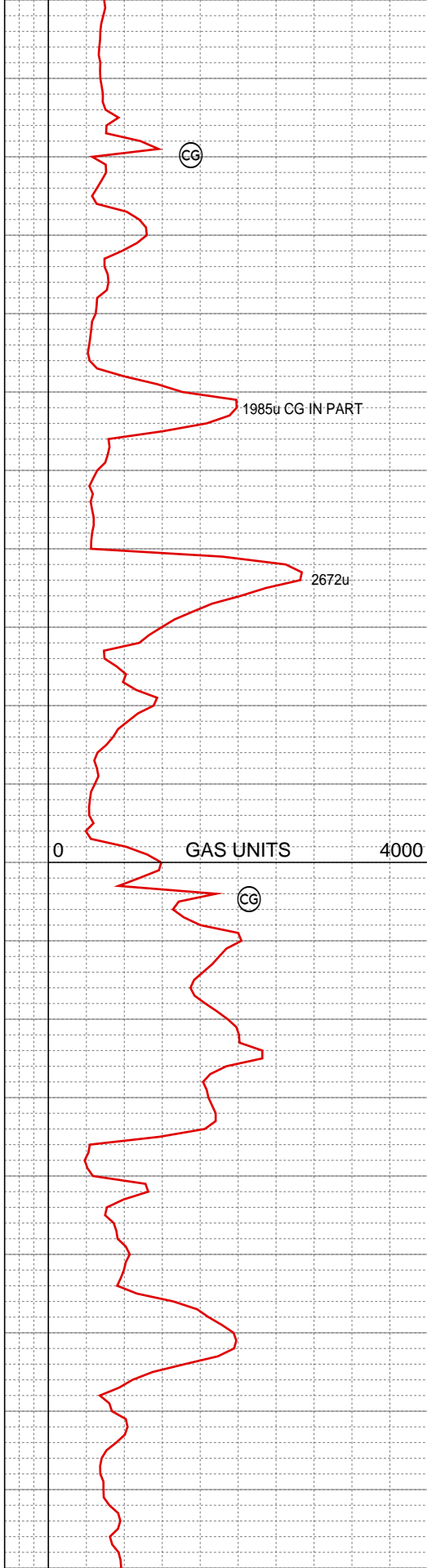
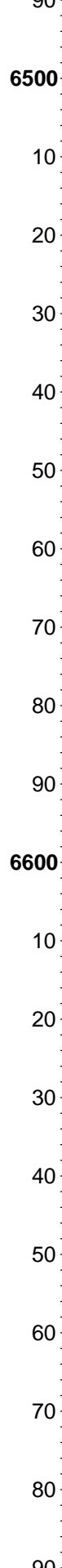
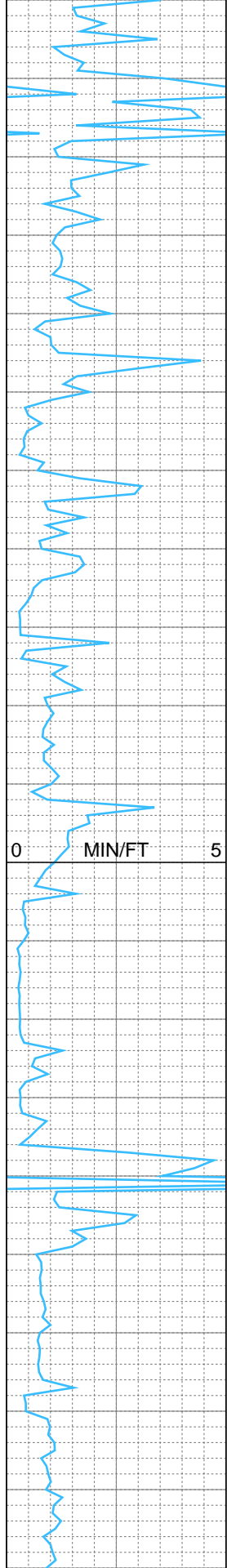
MUD WT. IN 9.4+/OUT 9.4
VIS. IN 64/OUT 65



MUD WT. IN 9.5/OUT 9.4+
VIS. IN 60/OUT 62

MUD WT. IN 9.5/OUT 9.4
VIS. IN 53/OUT 60

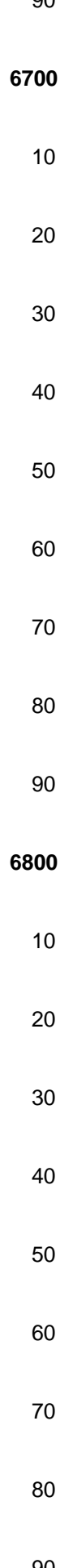
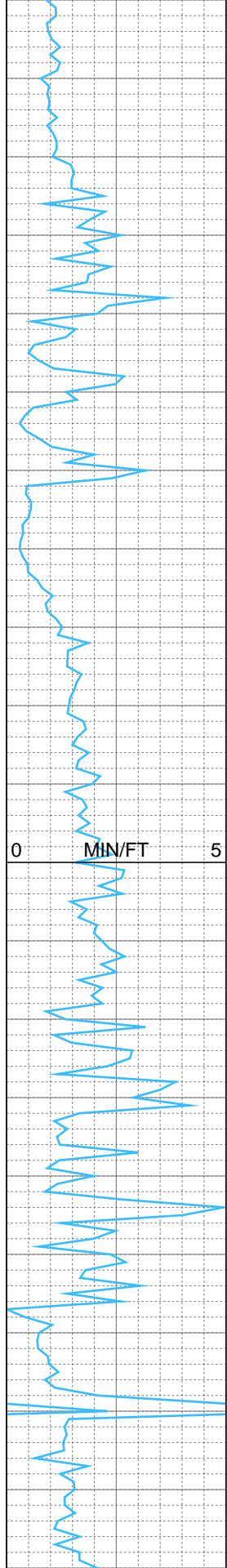
MUD WT. IN 9.4/OUT 9.4
VIS. IN 65/OUT 62



MUD WT. IN 9.4+/OUT 9.4
VIS. IN 58/OUT 56

MUD WT. IN 9.4/OUT 9.4
VIS. IN 48/OUT 52

MUD WT. IN 9.4/OUT 9.4
VIS. IN 49/OUT 50



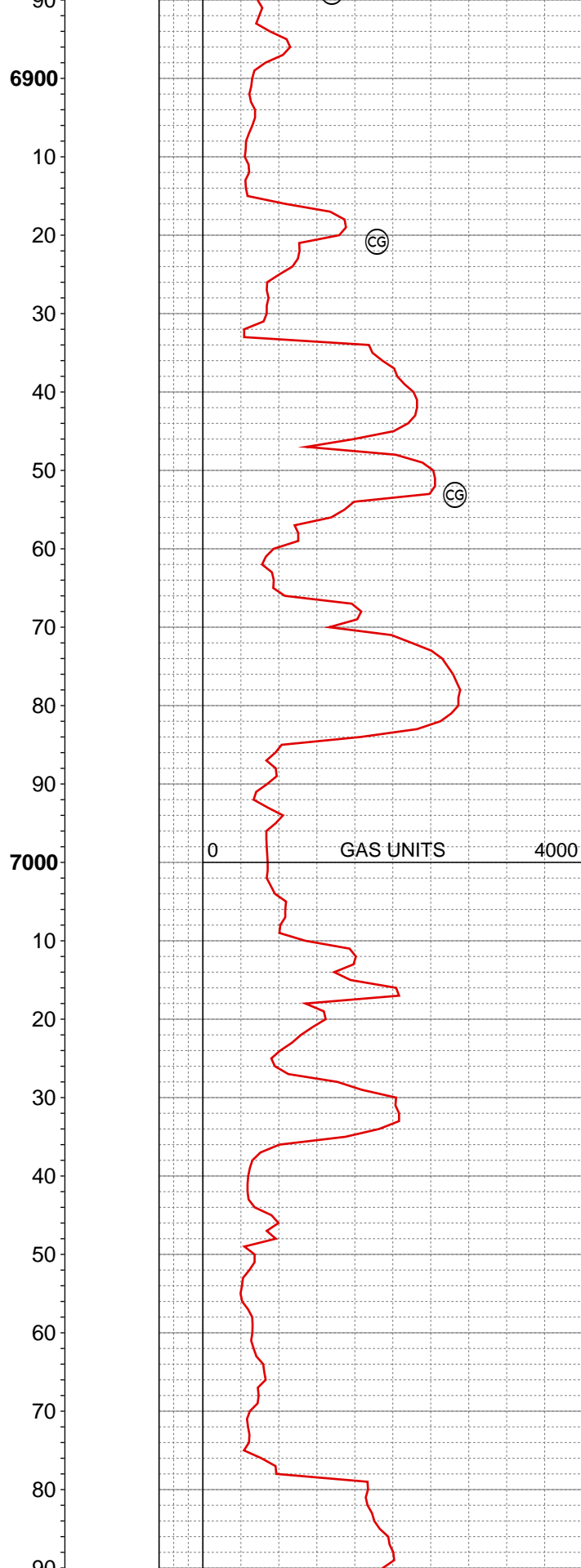
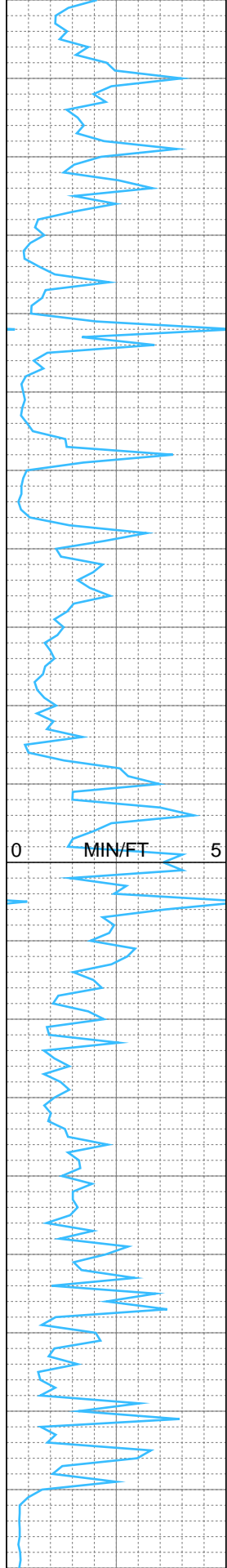
MUD WT. IN 9.4/OUT 9.4
VIS. IN 49/OUT 53

MUD WT. IN 9.5/OUT 9.5
VIS. IN 58/OUT 53

MUD WT. IN 9.4/OUT 9.4
VIS. IN 61/OUT 61

MUD WT. IN 9.4+/OUT 9.4
VIS. IN 63/OUT 58

MUD WT. IN 9.4+/OUT 9.4
VIS. IN 55/OUT 56

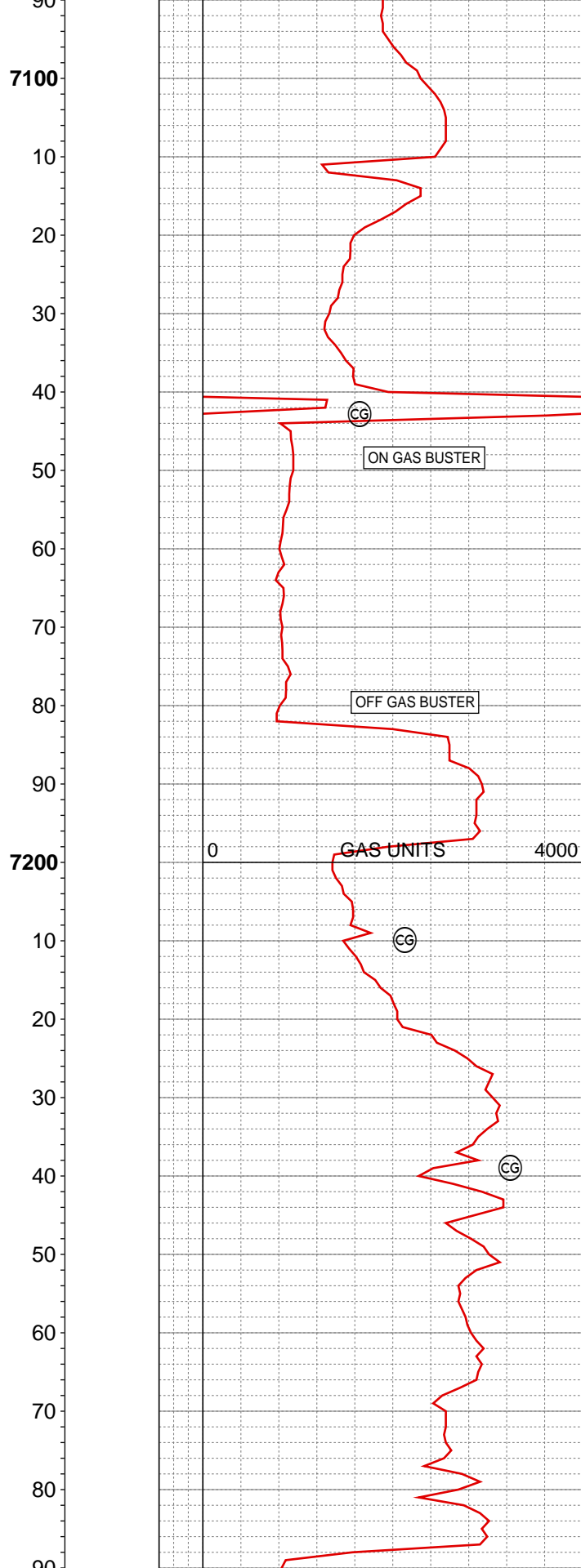
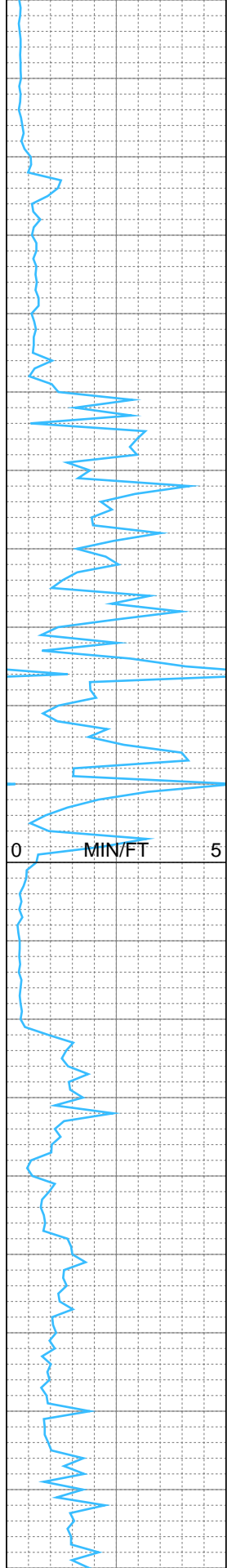


MUD WT. IN 9.4+/OUT 9.4
VIS. IN 52/OUT 53

MUD WT. IN 9.4+/OUT 9.4+
VIS. IN 47/OUT 51

MUD WT. IN 9.4+/OUT 9.4
VIS. IN 50/OUT 53

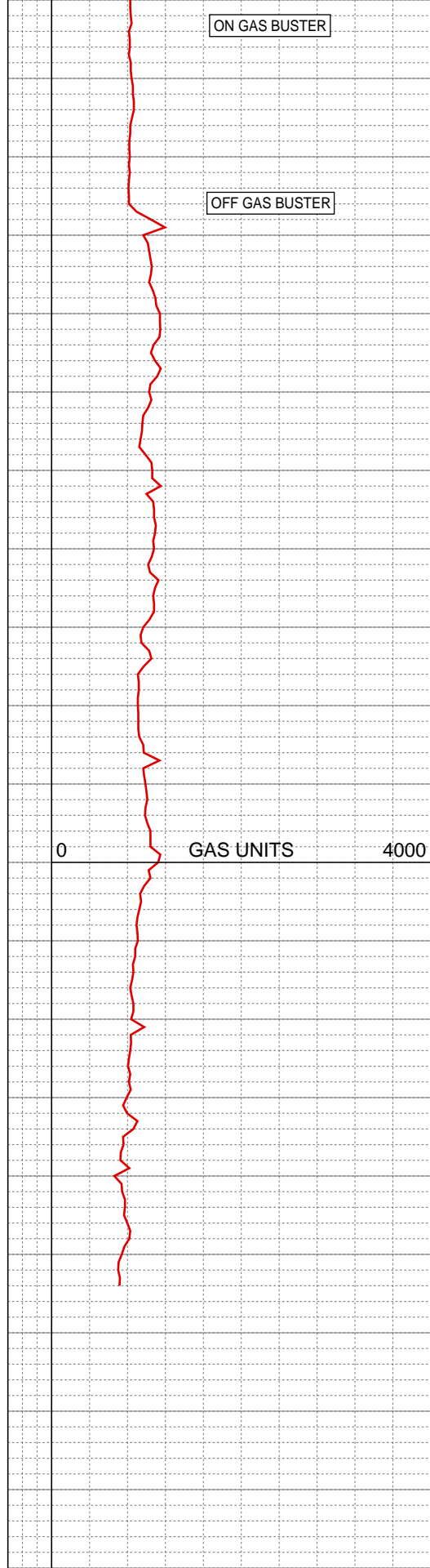
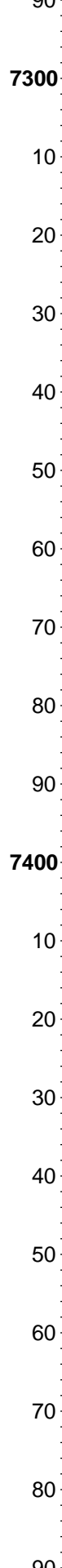
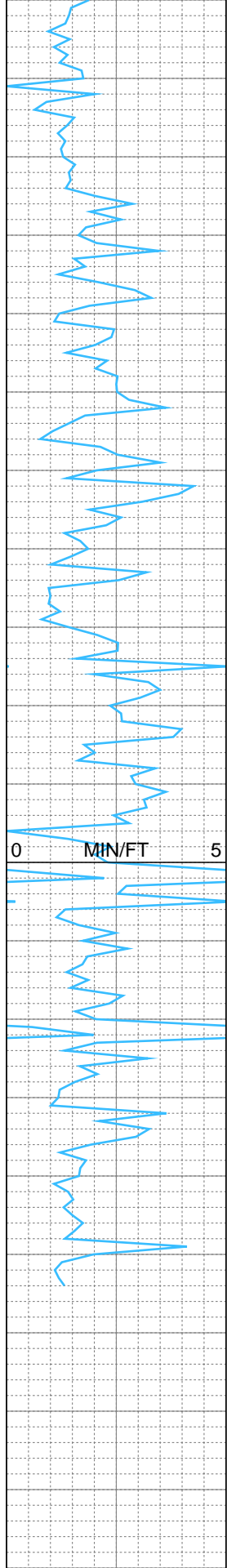
MUD WT. IN 9.4+/OUT 9.4+
VIS. IN 48/OUT 47



MUD WT. IN 9.5+/OUT 9.5+
VIS. IN 52/OUT 50

MUD WT. IN 9.5/OUT 9.5+
VIS. IN 52/OUT 50

MUD WT. IN 9.5/OUT 9.5+
VIS. IN 53/OUT 51



MUD WT. IN 9.5/OUT 9.5
VIS. IN 55/OUT 47

MUD WT. IN 9.5+/OUT 9.5+
VIS. IN 53/OUT 56

MUD WT. IN 9.6/OUT 9.6
VIS. IN 53/OUT 55

TD 7454' ON 09/17/08

