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Mudlog MD

COMPANY	EXXONMOBIL
WELL	PCU 296-6B8
FIELD	PICEANCE CREEK
REGION	ROCKIES
COORDINATES	LAT: 39.905338000 LONG: 108.205109000
ELEVATION	GL = 7361.2' KB = 7388.2
COUNTY, STATE	RIO BLANCO, COLORADO
API INDEX	051031153400
SPUD DATE	AUGUST 10, 2011
CONTRACTOR	HELMERICH AND PAYNE
CO. REP.	JOHN WOOD
RIG/TYPE	HP215/FLEX 3
LOGGING UNIT	051
GEOLOGISTS	B. DELANEY B. JOHANNING
ADD. PERSONS	G. BAKER D. CLAAR
CO. GEOLOGIST	W. HOFFMAN

LOG INTERVAL

DEPTHS: 145' **TO** 4,526'
DATES: 08/10/2011 **TO** 08/20/2011
SCALE: 5" = 100'

CASING DATA

10.75" **AT** 4511'
AT
AT
AT

MUD TYPES

SPUD MUD **TO** 4526'
TO
TO
TO

HOLE SIZE

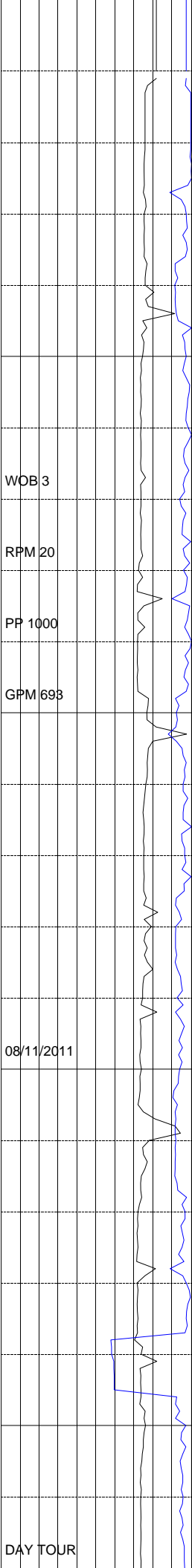
14.75" **TO** 4526'
TO
TO
TO

ABBREVIATIONS

<i>NB</i> NEWBIT	<i>PV</i> PLASTIC VISCOSITY	<i>LC</i> LOST CIRCULATION
<i>RRB</i> RERUN BIT	<i>YP</i> YIELD POINT	<i>CO</i> CIRCULATE OUT
<i>CB</i> CORE BIT	<i>FL</i> FLUID LOSS	<i>NR</i> NO RETURNS
<i>WOB</i> WEIGHT ON BIT	<i>CL</i> PPM CLORIDE ION	<i>TG</i> TRIP GAS
<i>RPM</i> ROTARY REV/MIN	<i>Rm</i> MUD RESISTIVITY	<i>SG</i> SURVEY GAS
<i>PP</i> PUMP PRESSURE	<i>Rmf</i> FILTRATE RESISTIVITY	<i>WG</i> WIPER GAS
<i>SPM</i> STROKES/MIN	<i>PR</i> POOR RETURNS	<i>CG</i> CONNECTION GAS
<i>MW</i> MUD WEIGHT	<i>LAT</i> LOGGED AFTER TRIP	
<i>VIS</i> FUNNEL VISCOSITY	<i>LAS</i> LOGGED AFTER SURVEY	

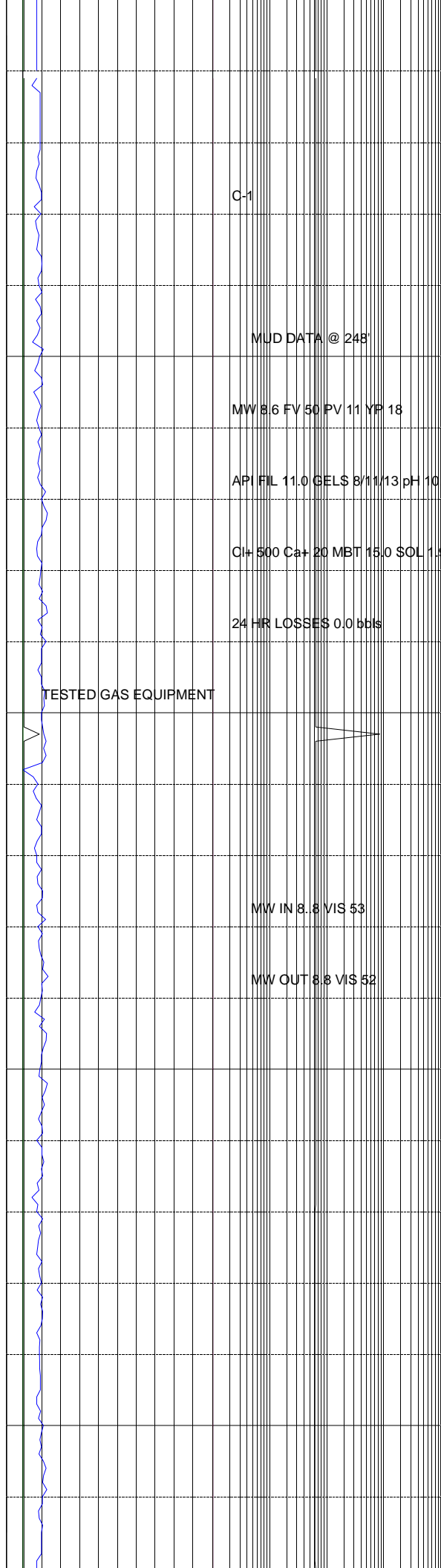
ALTERED ZONE	CHERT - GLASSY	FELSIC SILIC DIKE	MARL - CALC	SANDSTONE
ANDESITE	CHERT - PORCEL	FOSSIL	METAMORPHICS	SANDSTONE-TUFFACEOUS
ANHYDRITE	CHERT - TIGER STRIPE	GABBRO	MUDSTONE	SERICITIZATION
BASALT	CHERT - UNDIFF	GLASSY TUFF	OBSIDIAN	SERPENTINE
BENTONITE	CLAY	GRANITE	PALEOSOL	SHALE
BIOTITIZATION	CLAY-MUDSTONE	GRANITE WASH	PHOSPHATE	SHALE TUFFACEOUS
BRECCIA	CLYST-TUFFACEOUS	GRANODIORITE	PORCELANITE	SHELL FRAGMENTS
CALCARENITE	CHLORITIZATION	GYPSUM	PORCELANEOUS CLYST	SIDERITE
CALCAREOUS TUFF	COAL	HALITE	PYRITE	SILICIFICATION
CALCILUTITE	CONGLOMERATE	HORNBL-QTZ-DIO	PYROCLASTICS	SILTSTONE
CARBONATES	CONGL. SAND	IGNEOUS (ACIDIC)	QUARTZ DIORITE	SILTST-TUFFACEOUS
CARBONACEOUS MAT	CONGL. SANDSTONE	IGNEOUS (BASIC)	QUARTZ LATITE	TUFF
CARBONACEOUS SH	COQUINA	INTRUSIVES	QUARTZ MONZONITE	VOLCANICLASTICS SEDS
CEMENT CONTAM.	DACITE	KAOLINITIC	RECRYSTALLIZED CALCITE	VOLCANICS
CHALK	DIATOMITE	LIMESTONE	RHYOLITE	
CRYSTALLINE TUFF	DIORITE	LITHIC TUFF	SALT	
CHERT - ARGILL	DOLOSTONE	MARL - DOLO	SAND	

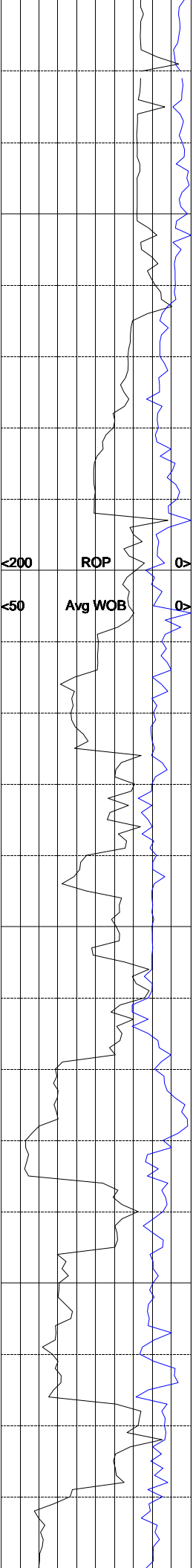
EXXONMOBIL				PCU 296-6B8				8/22/2011									
<div><200ROP0></div> <div>ft/hr</div> <div><50Avg WOB0></div> <div>klbs</div>				Depth	Lithology	<div>MGS</div> <div><0Ttl Gas100></div> <div>units</div> <div><0CO25K></div> <div>ppm</div> <div><0Flare Ht.100></div> <div>ft</div>				<div>Interp. Lith</div> <div><10Meth C-1100K></div> <div>ppm</div> <div><10Ethn C-2100K></div> <div><10Prop C-3100K></div> <div><10Butn C-4100K></div> <div><10Pent C-5100K></div>				Remarks			
										Survey Data, Mud Reports, Other Info.							



300

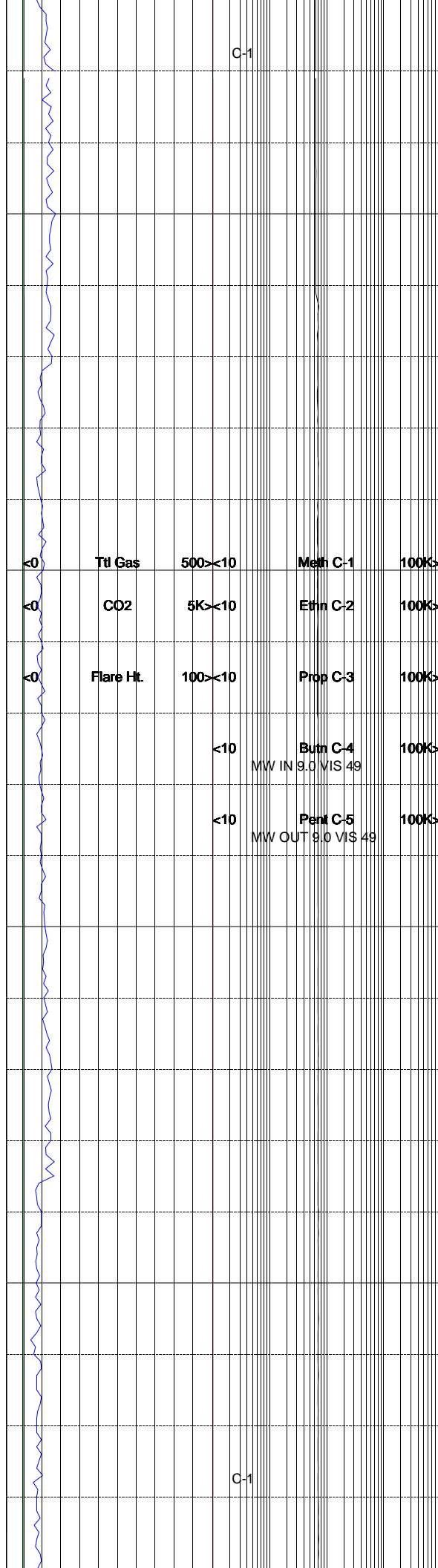
400





500

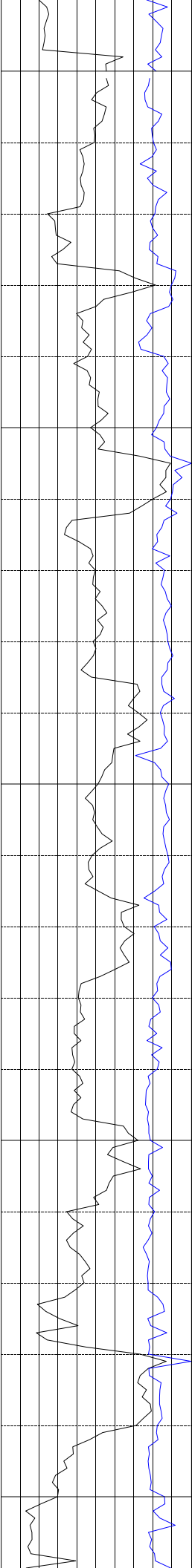
600



C-1

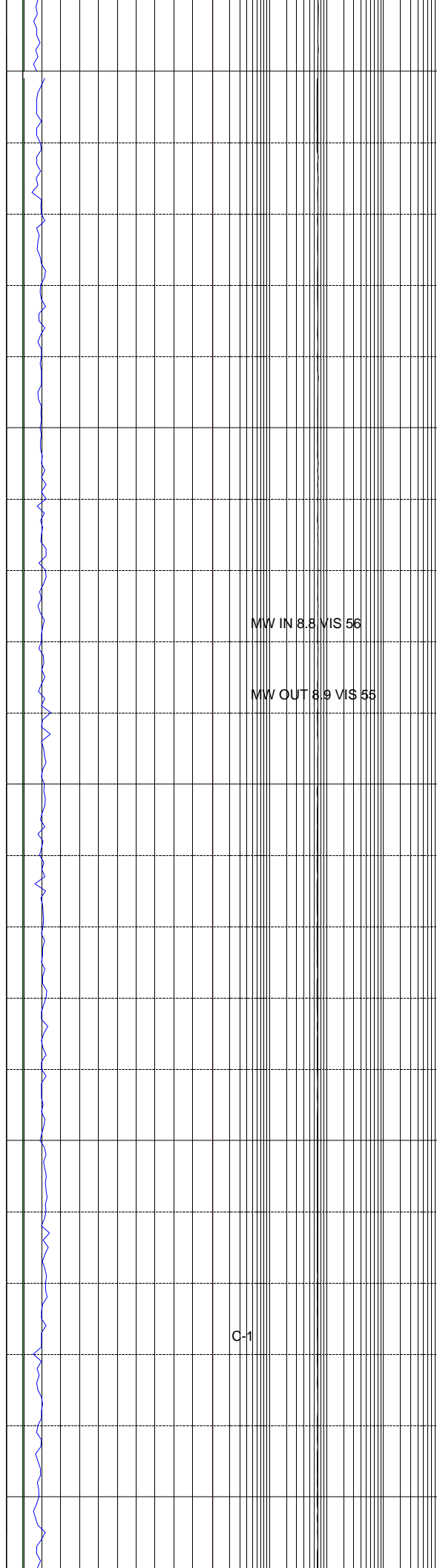
C-1

<0	Ttl Gas	500><10	Meth C-1	100K>
<0	CO2	5K><10	Ethn C-2	100K>
<0	Flare Ht.	100><10	Prop C-3	100K>
		<10	Butn C-4 MW IN 9.0 VIS 49	100K>
		<10	Pent C-5 MW OUT 9.0 VIS 49	100K>



700

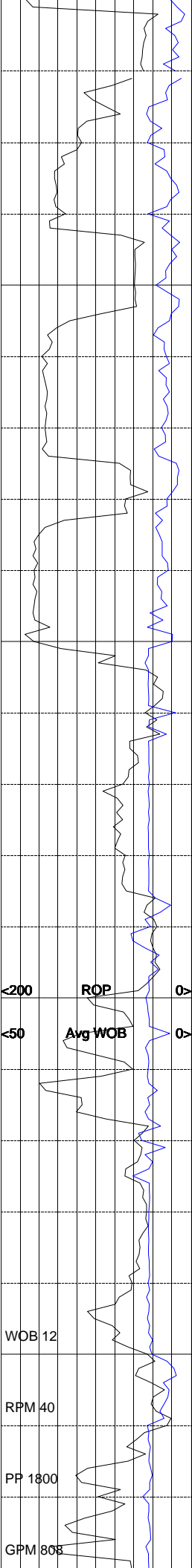
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MW IN 8.8 VIS 56

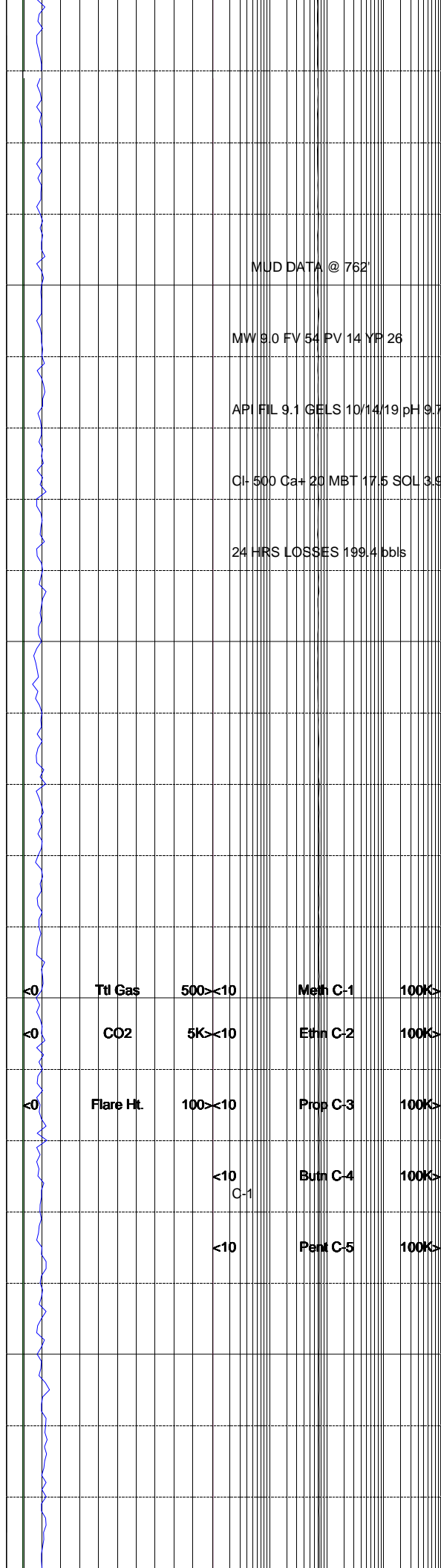
MW OUT 8.9 VIS 55

C-1



900

1000



MUD DATA @ 762

MW 9.0 FV 54 PV 14 YF 26

API FIL 9.1 GELS 10/14/19 pH 9.7

CI- 500 Ca+ 20 MBT 17.5 SOL 3.9

24 HRS LOSSES 199.4 bbls

<0 Ttl Gas 500<10 Meth C-1 100K>

<0 CO2 5K<10 Ethn C-2 100K>

<0 Flare Ht. 100<10 Prop C-3 100K>

<10 C-1 Burn C-4 100K>

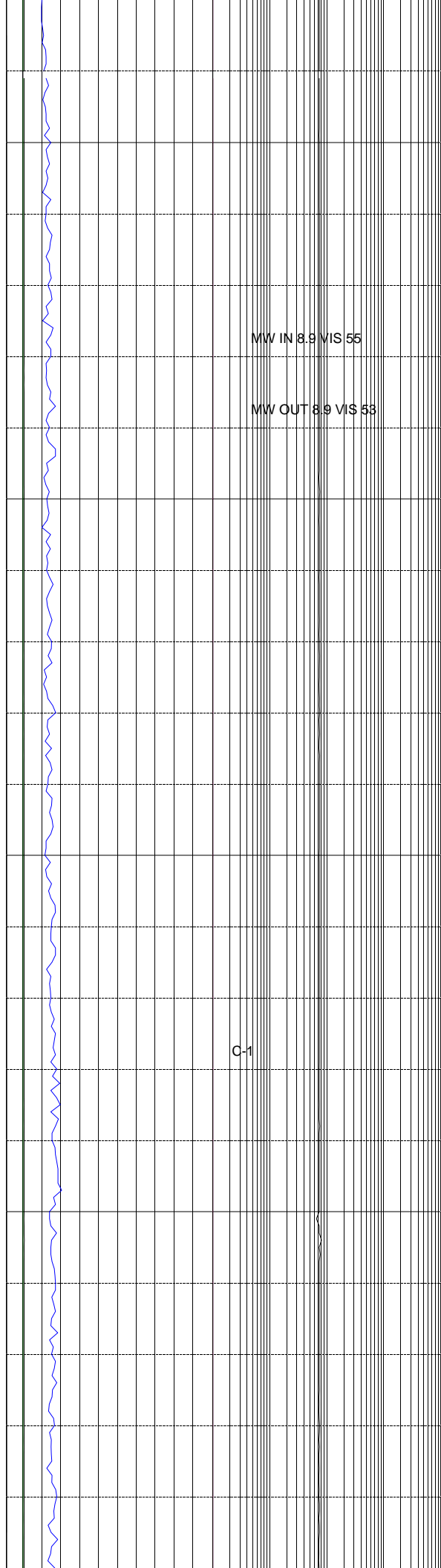
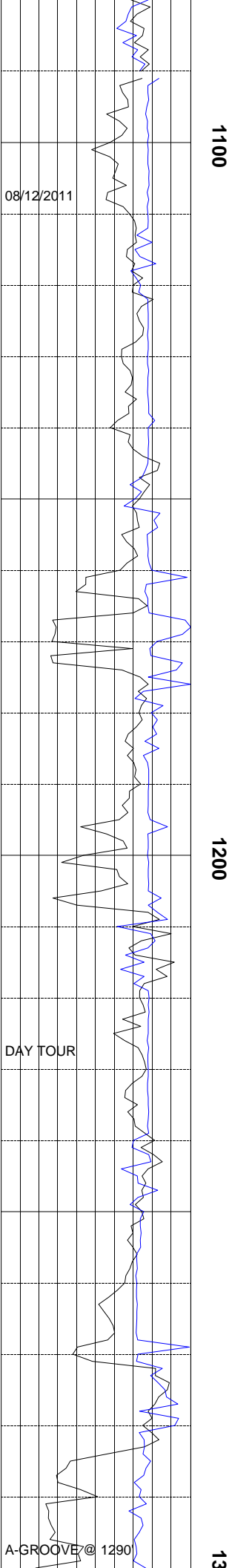
<10 Pent C-5 100K>

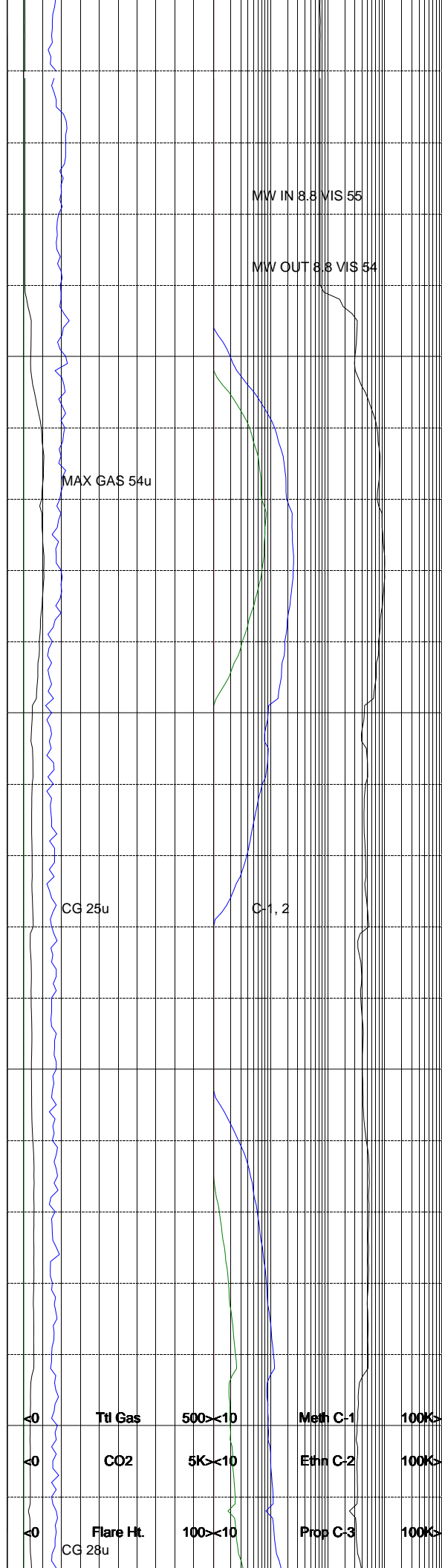
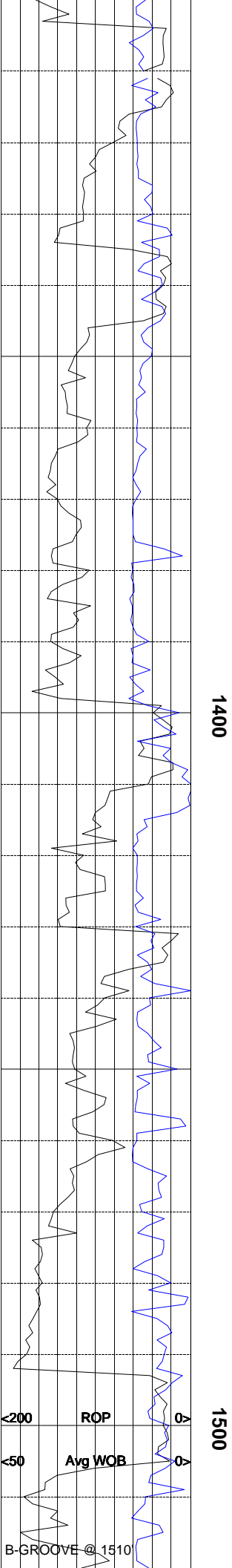
WOB 12

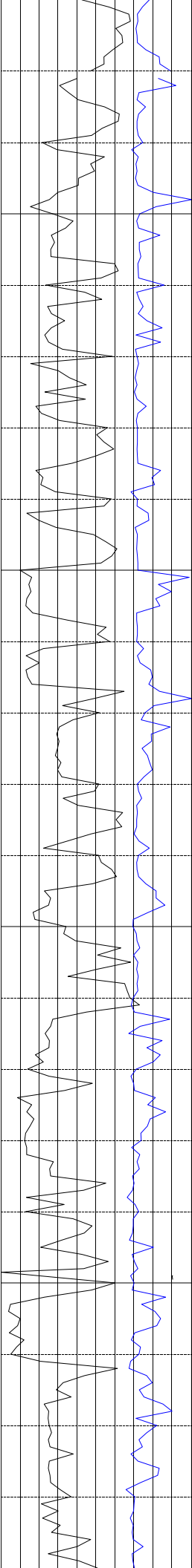
RPM 40

PP 1800

GPM 800

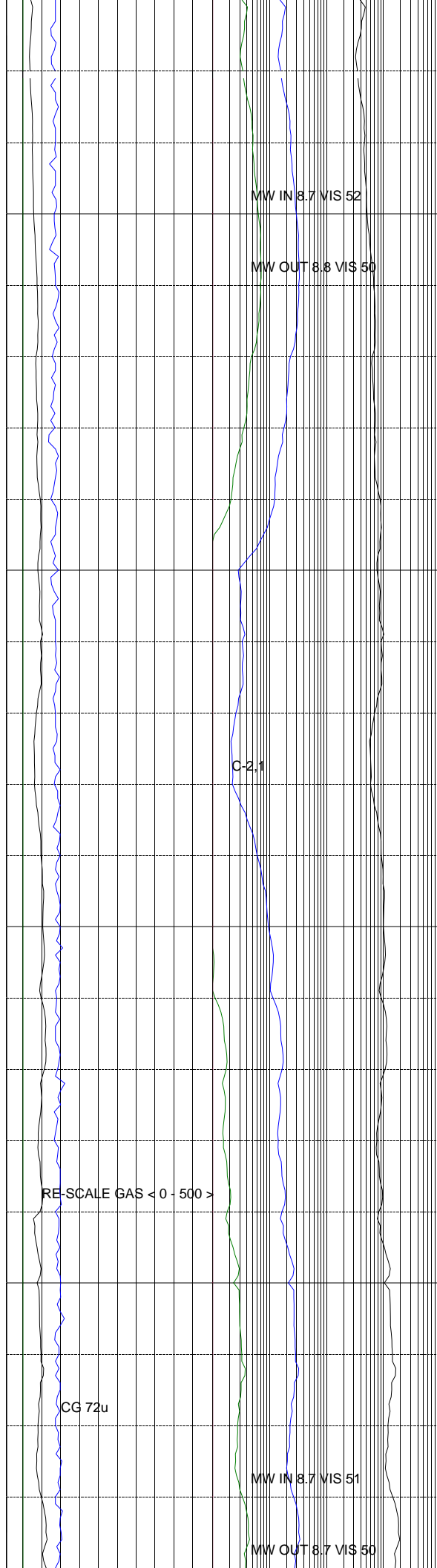


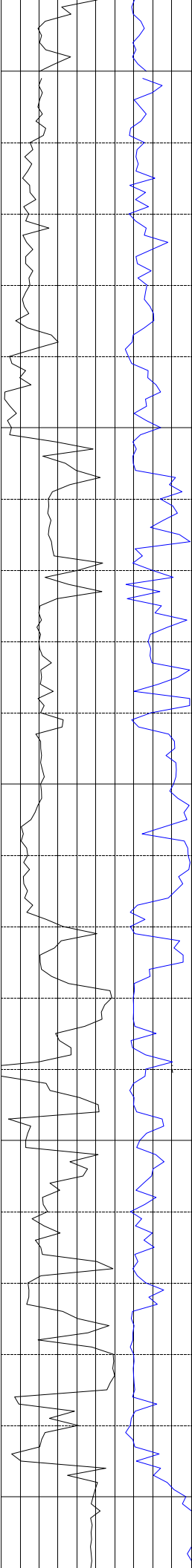




1600

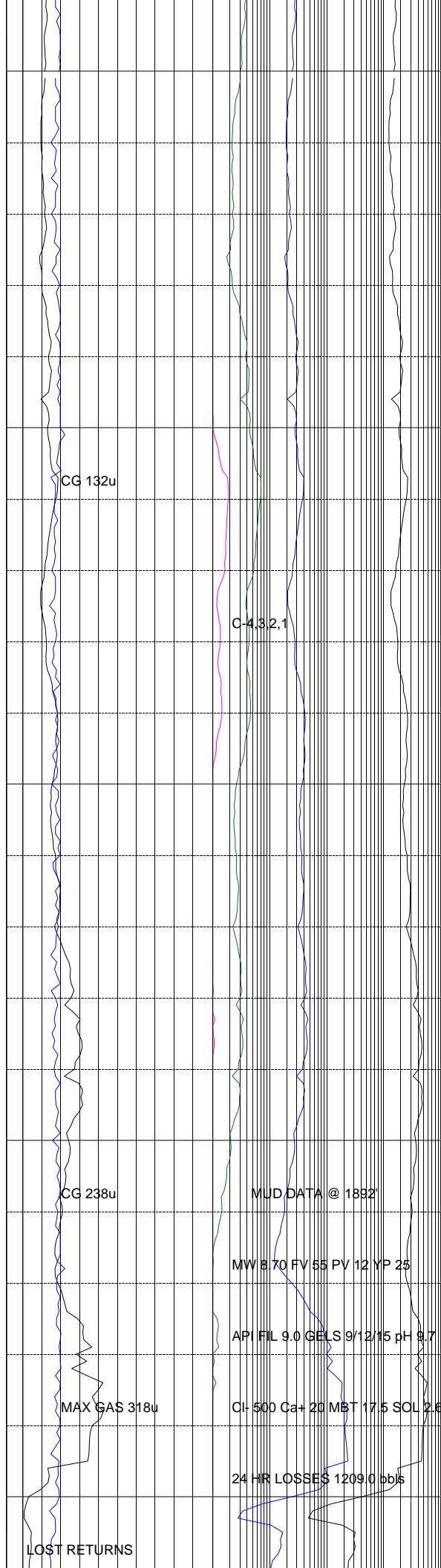
1700





1800

1900



CG 132u

C-4.32.1

CG 238u

MUD DATA @ 1832

MW 8.70 FV 55 PV 12 YP 25

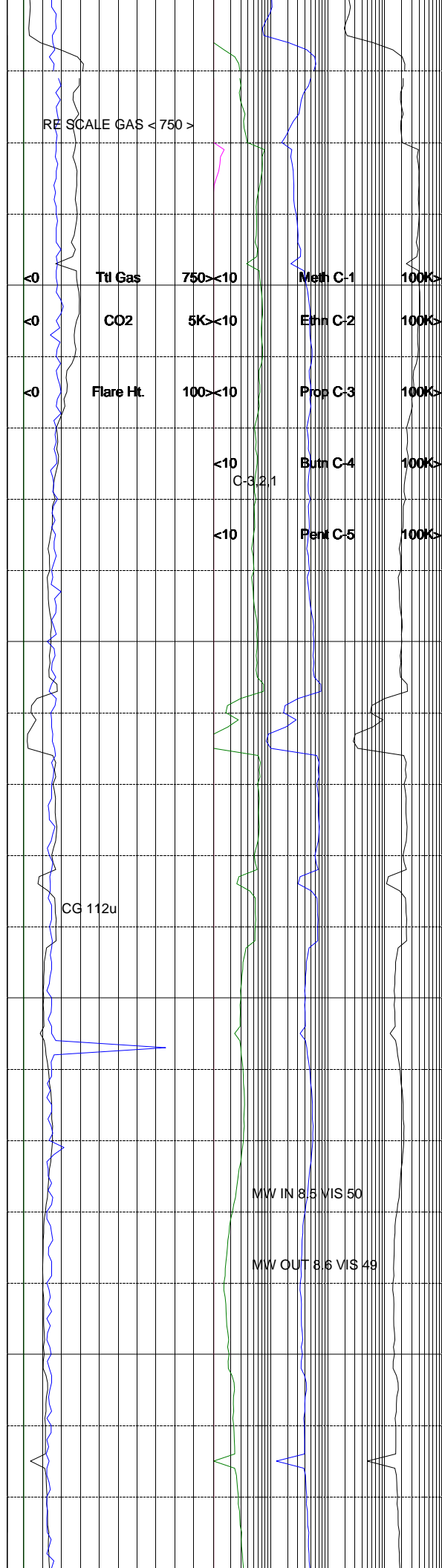
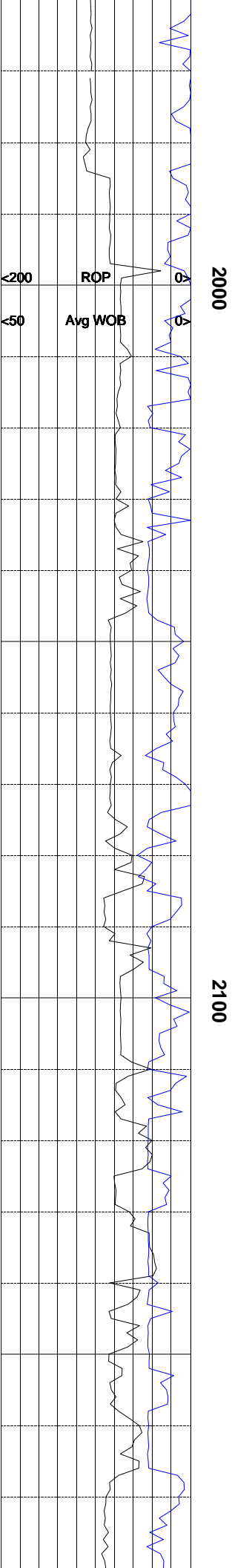
API FIL 9.0 GELS 9/12/15 pH 8.7

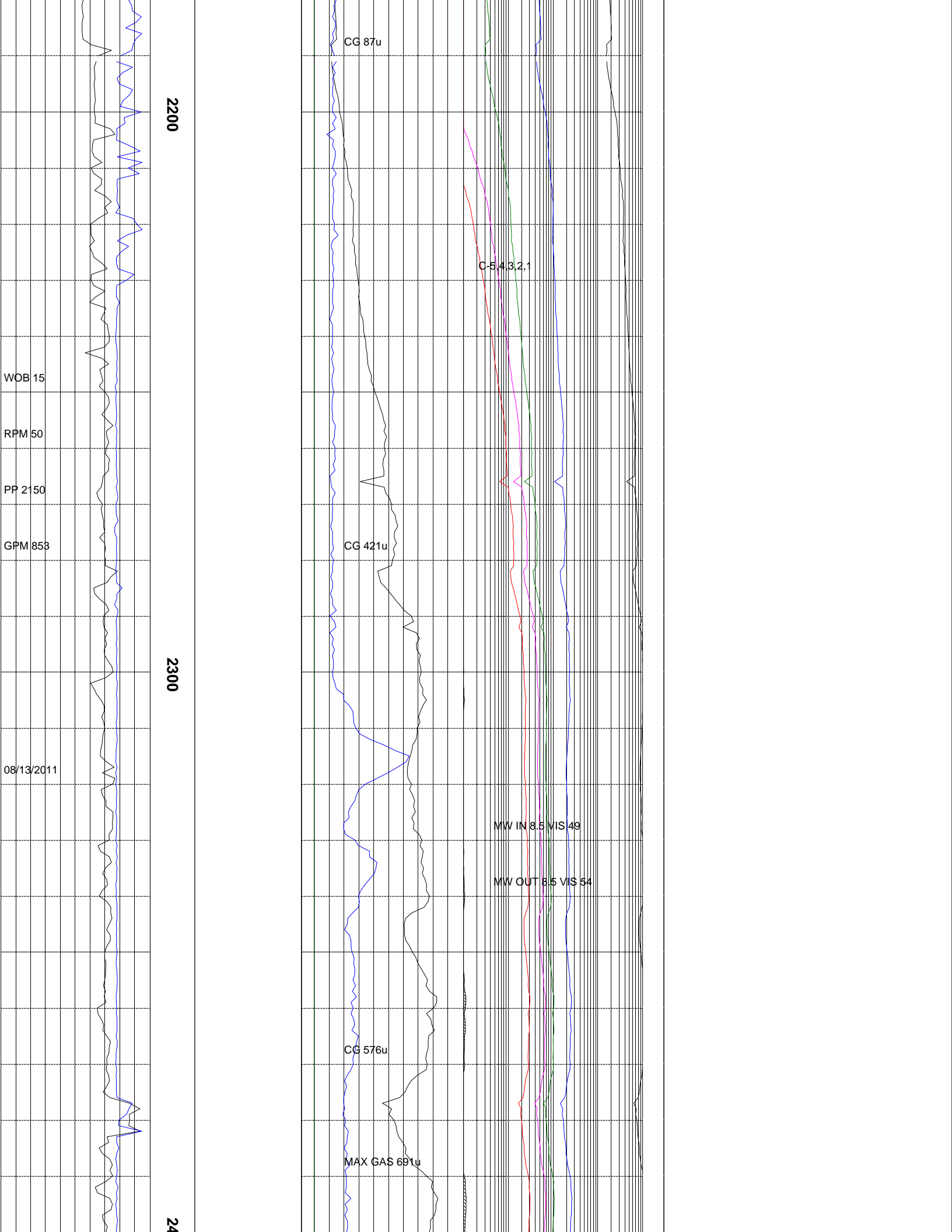
MAX GAS 318u

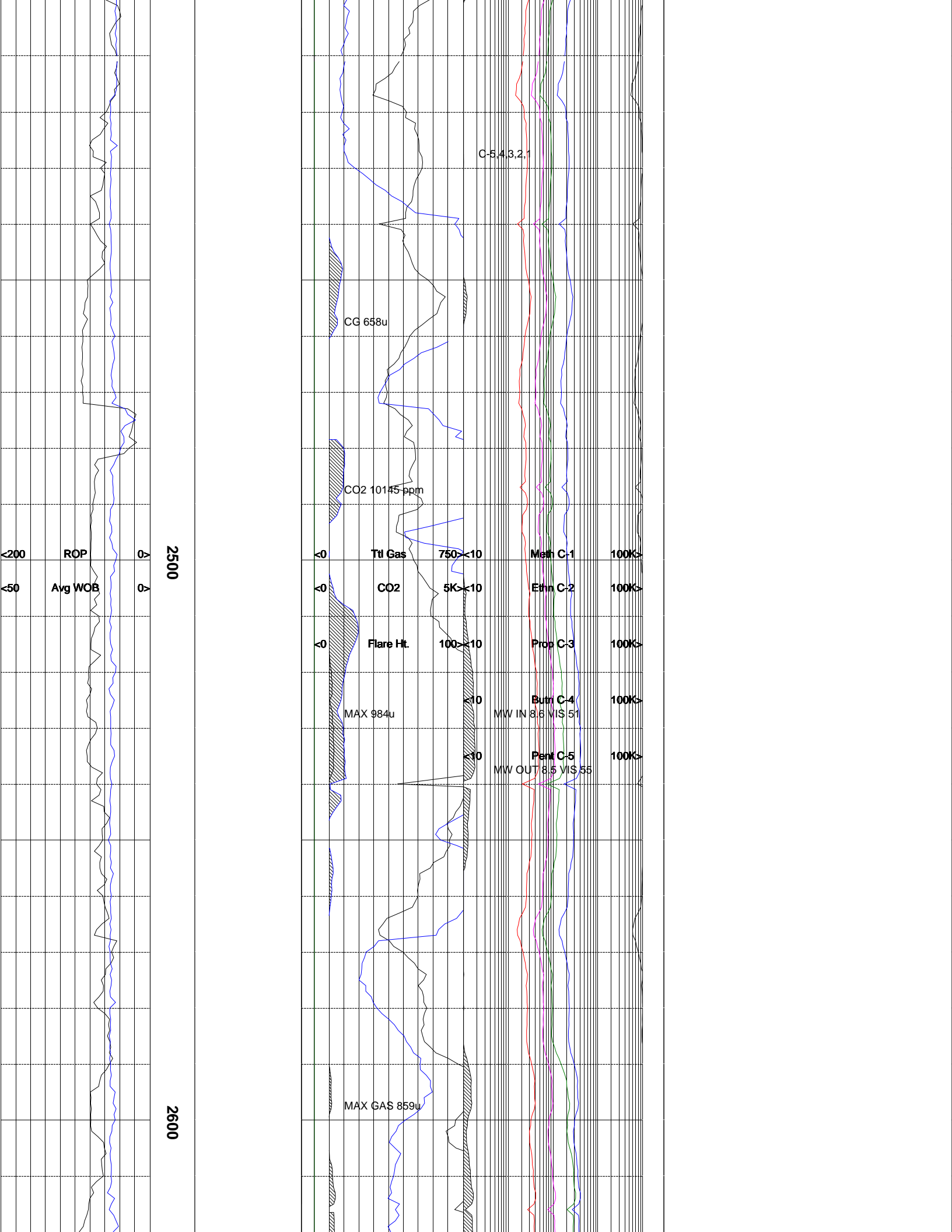
Cl- 500 Ca+ 20 MBT 17.5 SOL 2.6

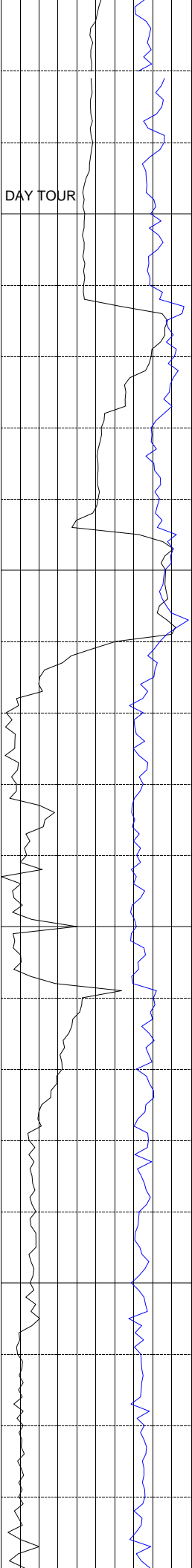
24 HR LOSSES 1209.0 bbl/s

LOST RETURNS



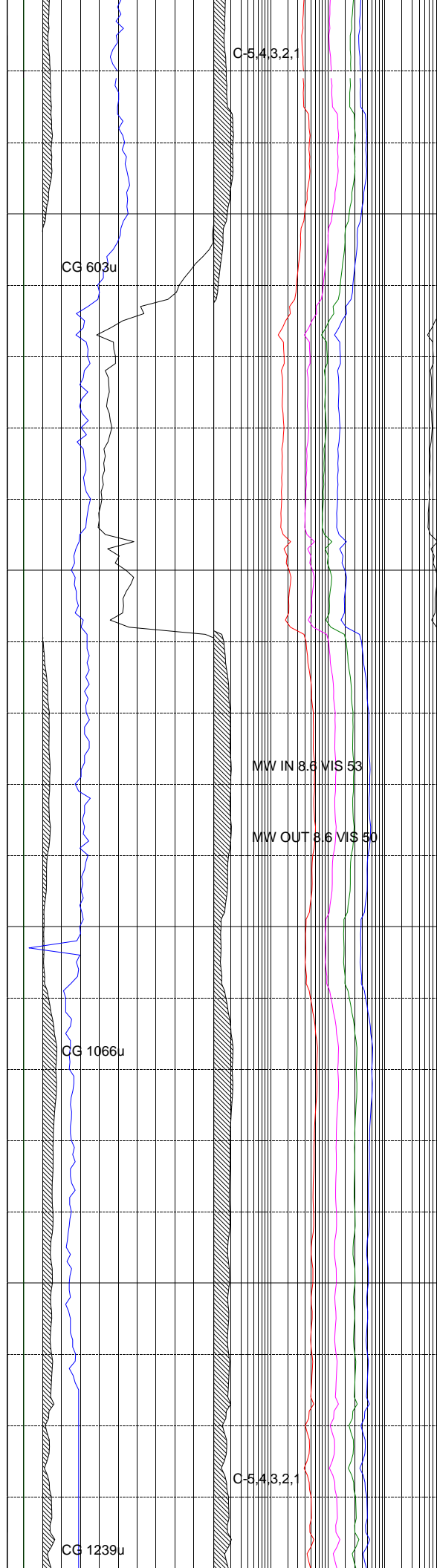


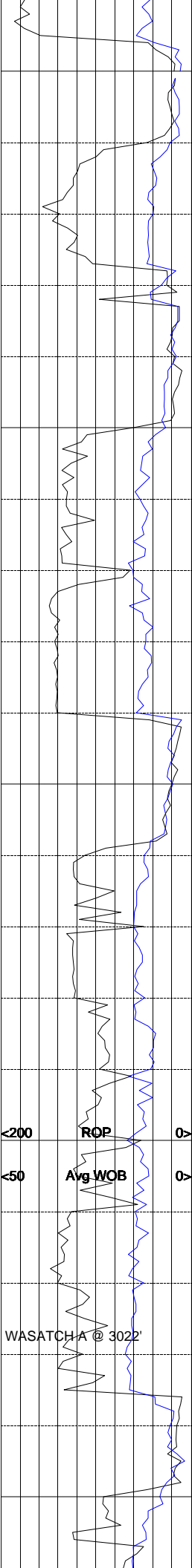




2700

2800

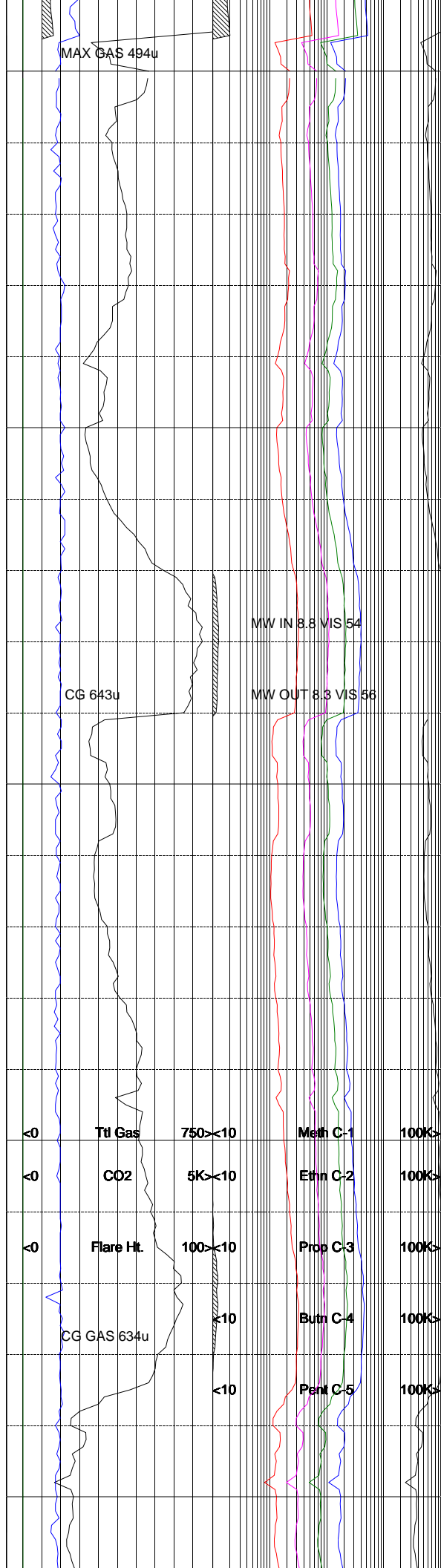




2900

3000

WASATCH A @ 3022'



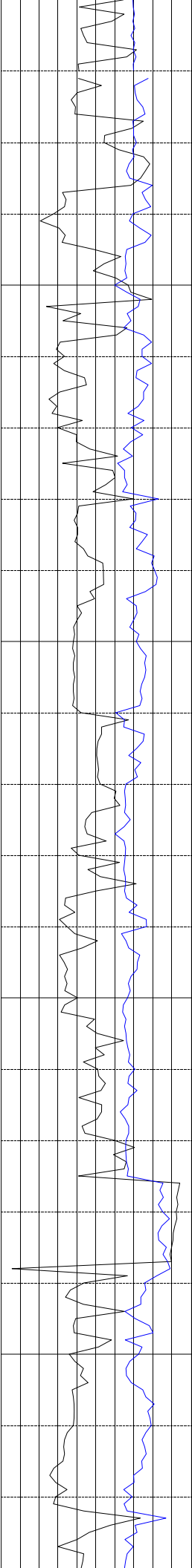
MAX GAS 494u

CG 643u

MW IN 8.8 VIS 54

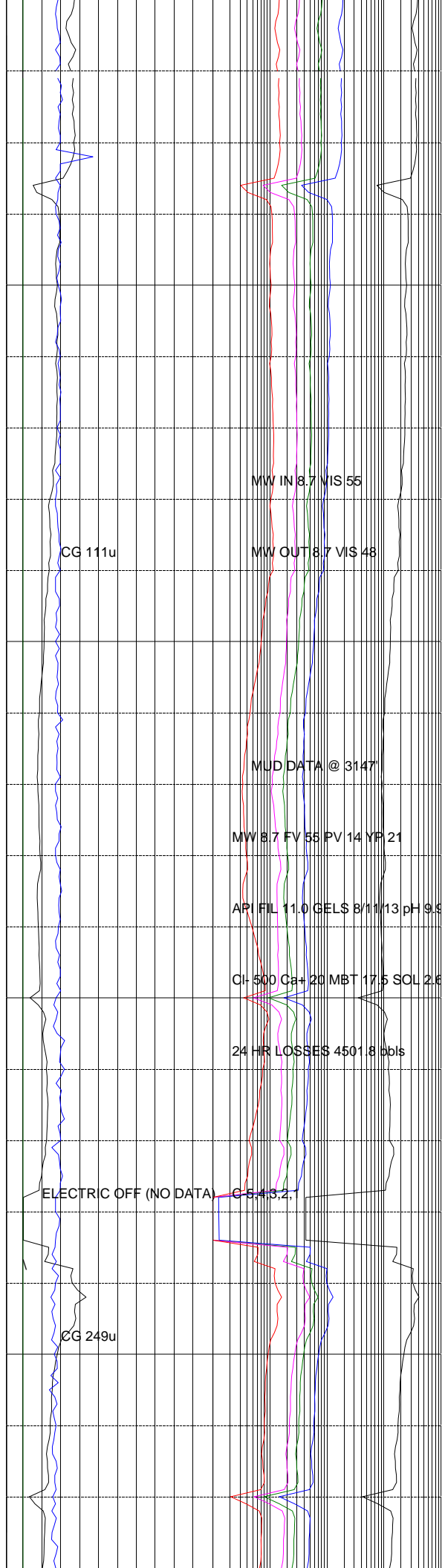
MW OUT 8.3 VIS 56

<0	Ttl Gas	750<10	Meth C-1	100K>
<0	CO2	5K<10	Ethn C-2	100K>
<0	Flare Ht.	100<10	Prop C-3	100K>
	CG GAS 634u	<10	Butn C-4	100K>
		<10	Pent C-5	100K>



3100

3200



MW IN 8.7 VIS 55

MW OUT 8.7 VIS 48

MUD DATA @ 3147

MW 8.7 FV 55 PV 14 YF 21

API FIL 11.0 GELS 8/11/13 pH 9.5

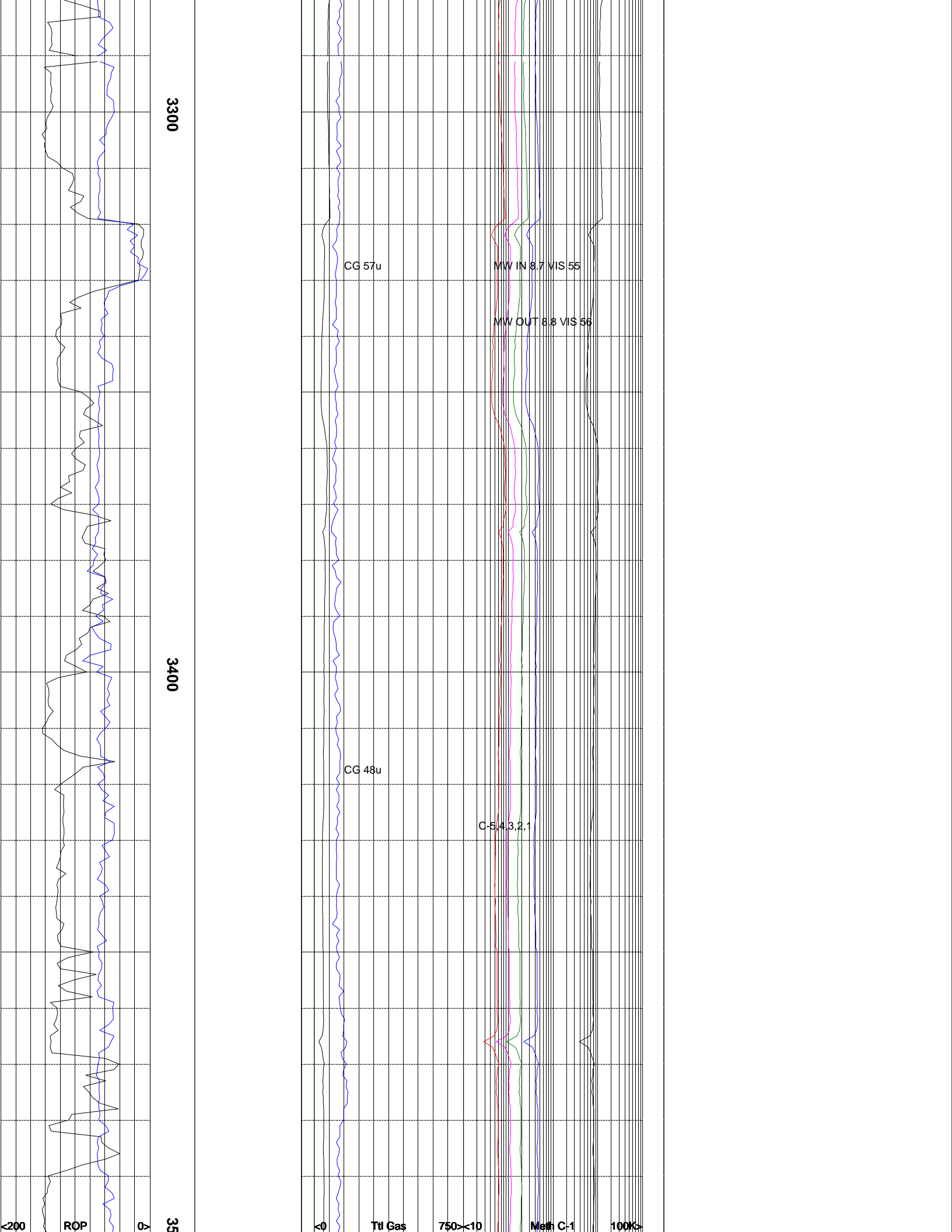
Cl- 500 Ca+ 20 MBT 17.5 SCL 2.6

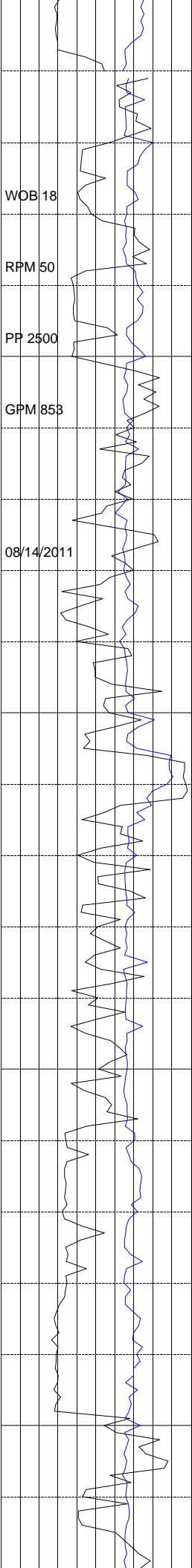
24 HR LOSSES 4501.8 bbls

ELECTRIC OFF (NO DATA) C-5 43.2

CG 111u

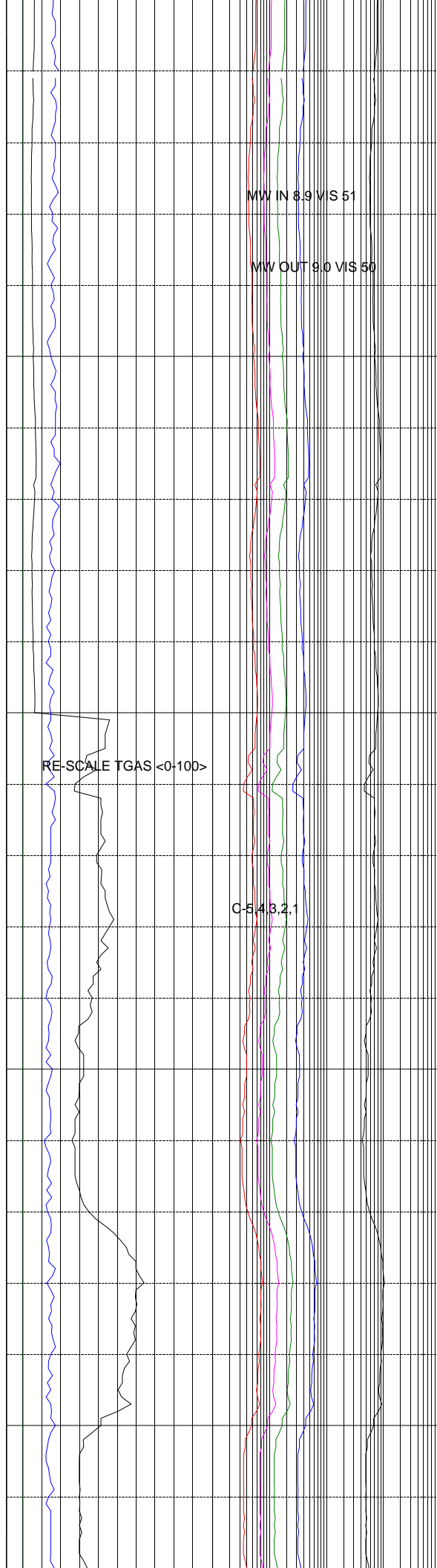
CG 249u

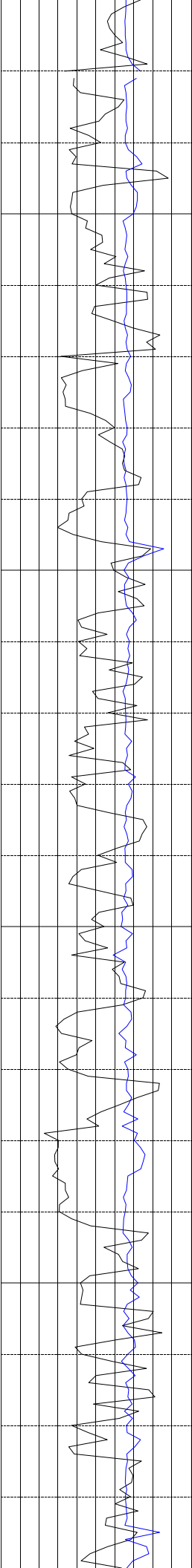




3600

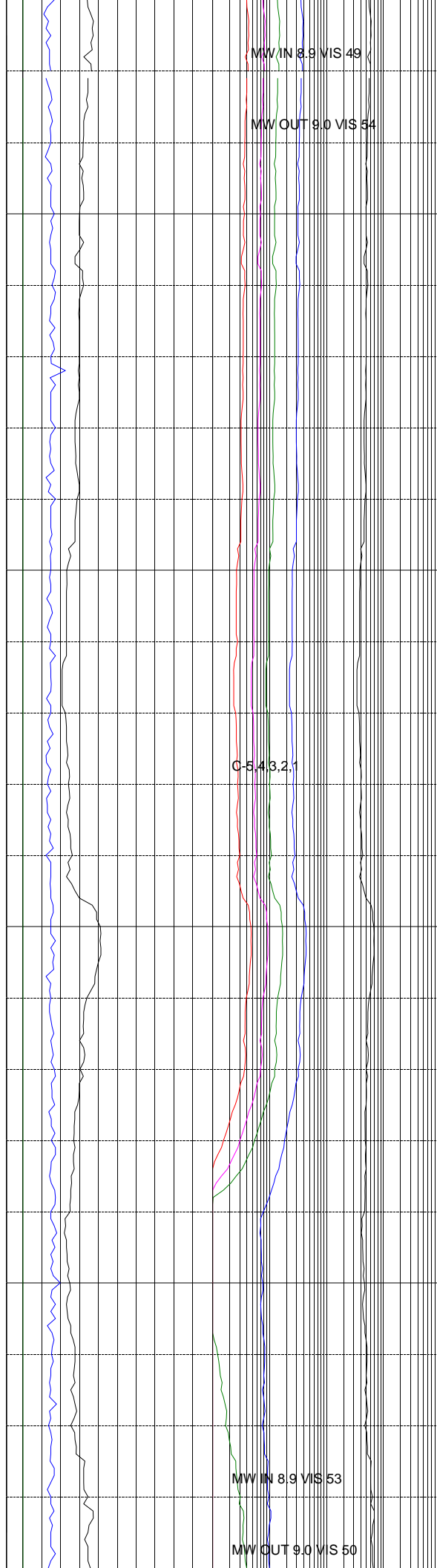
3700





3800

3900



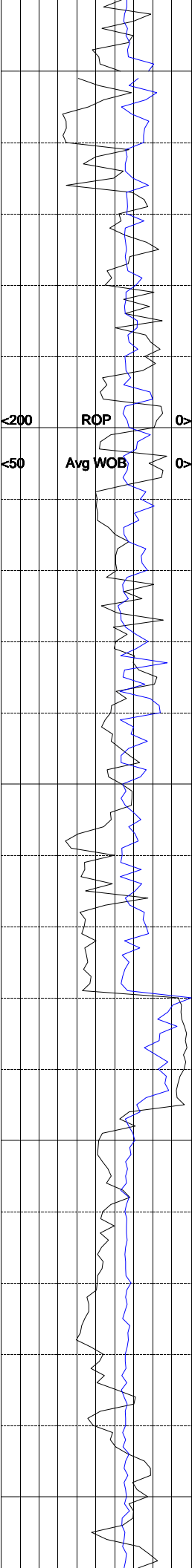
MW IN 8.9 VIS 49

MW OUT 9.0 VIS 54

C-5.43.2.1

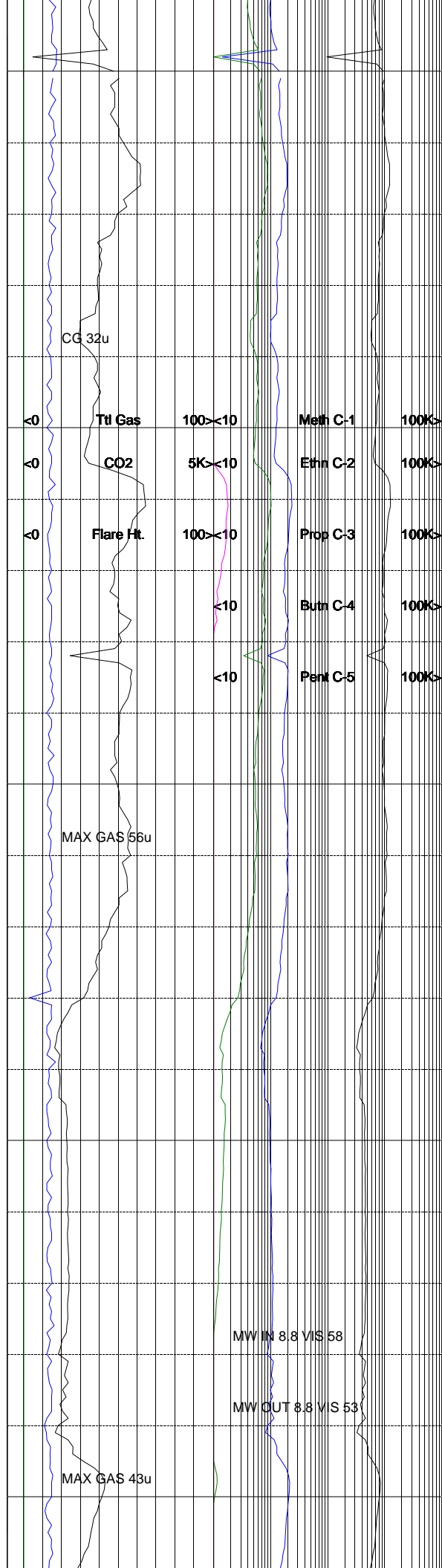
MW IN 8.9 VIS 53

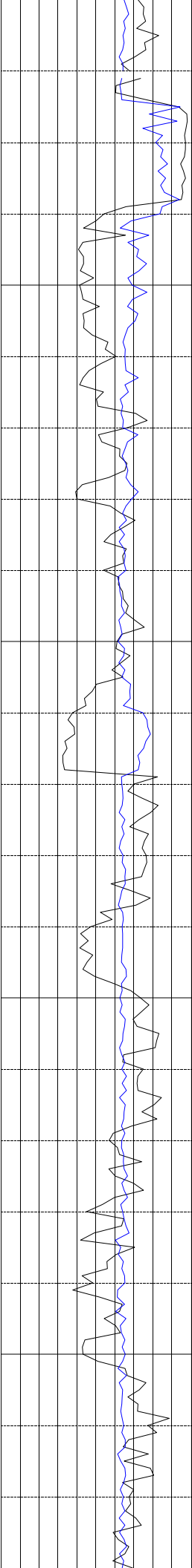
MW OUT 9.0 VIS 50



4000

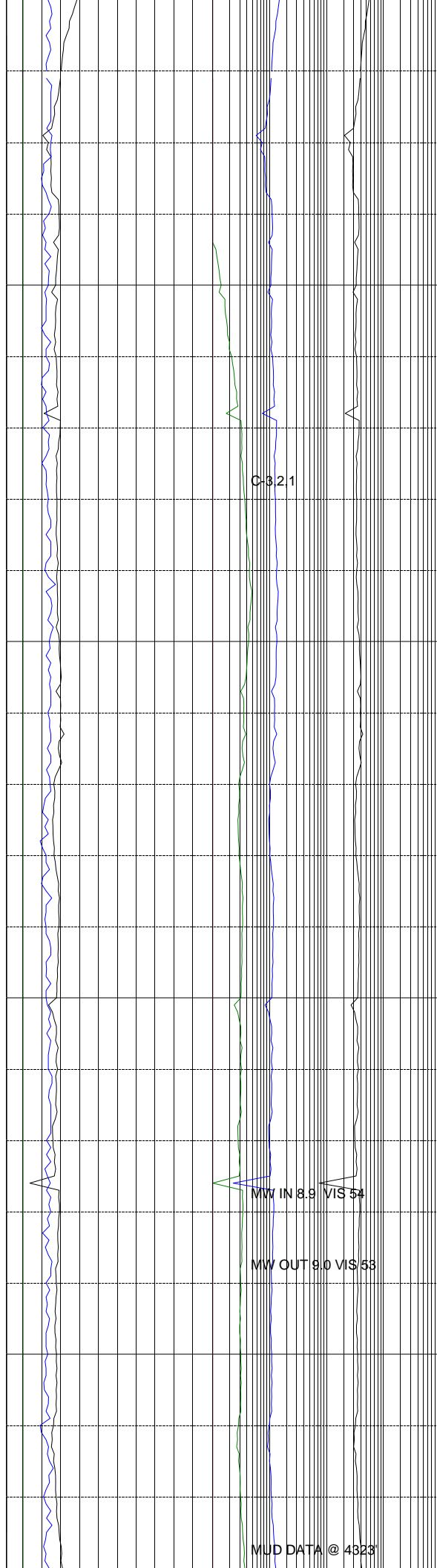
4100





4200

4300

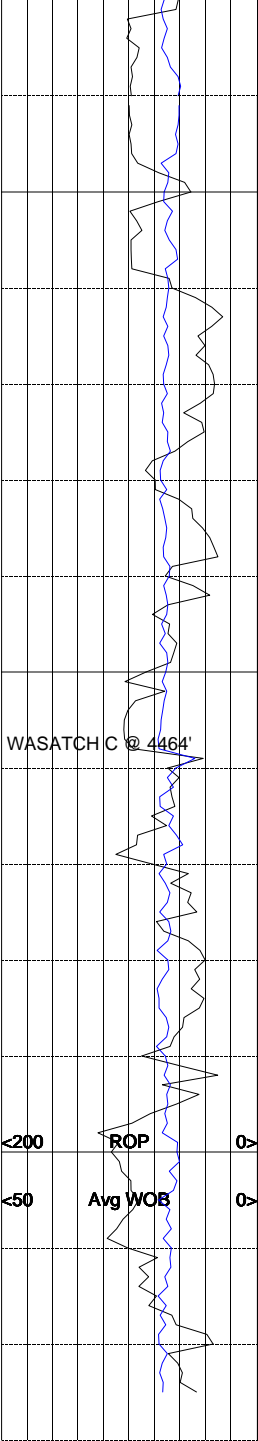


C-321

MW IN 8.9 VIS 54

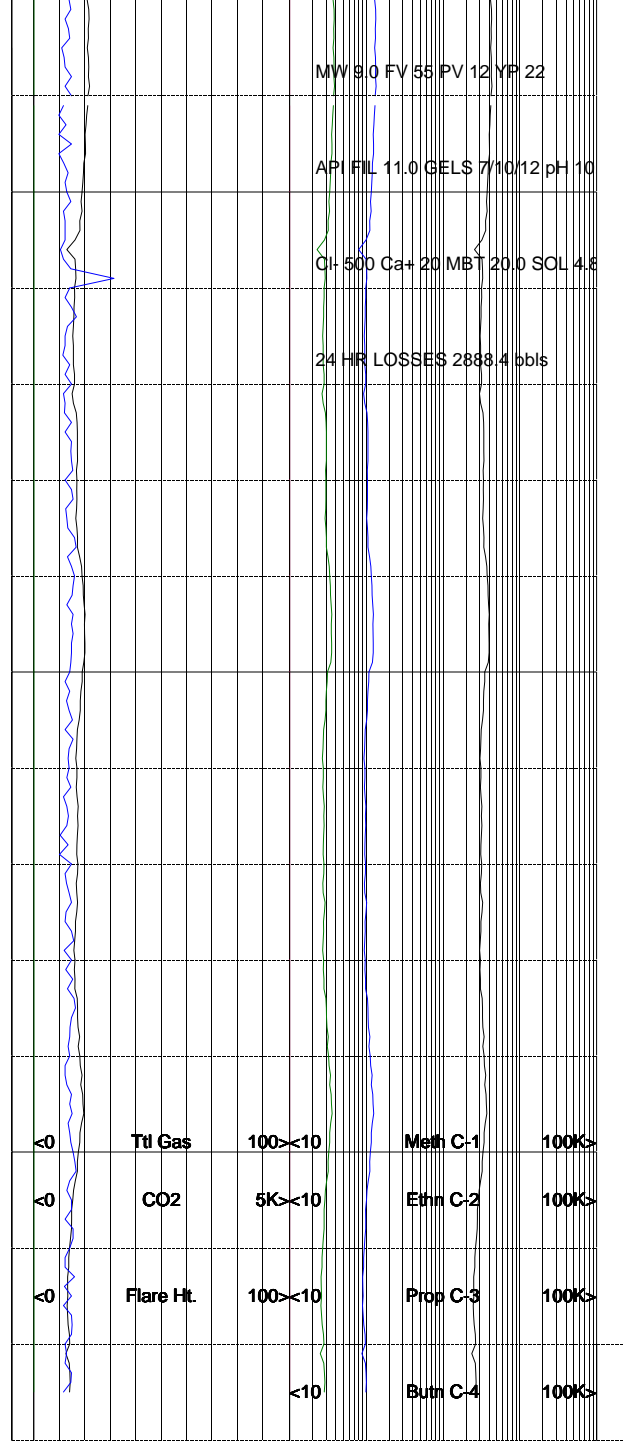
MW OUT 9.0 VIS 53

MUD DATA @ 4323'



4400

4500



MW 9.0 FV 55 PV 12 YF 22

API FIL 11.0 GELS 7/10/12 pH 10

CI- 500 Ca+ 20 MBT 20.0 SCL 4.8

24 HR LOSSES 2888.4 bbls

REACHED SURFACE CASING TD OF 4526' @

19:47 HRS ON 8/14/2011

AFTER 2 STAGE AND TOP JOB CEMENTING

OPS- THE PCU 296-6B8 WELL WAS ABANDONED.

<10

Pent C-5

100K>

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