



Scale: 5" / 100'  
Measured Depth Log

Well Name Spurling\_34N\_34HZ

Location NW/4NW: SEC 34, TWP 2N 67W 6 PM

State COLORADO County WELD

Country U.S.A. Rig Number XTREME 6

API Number 05123391240000 AFE # 2085759.DRL

Region D-J BASIN Field WATTENBERG

Spud Date 5/31/2014 Drilling Completed 6/5/2014

Surface Coordinates 377' FNL, 1,028' FWL

Bottom Hole Coordinates 460' FFSSL, 150' FFWLL

Ground Elevation 5,016' K.B. Elevation 5,036'

Logged Interval 6,900' To 12,005' Total Depth 12,005'

Formation NIOBRARA

Type of Drilling Fluid LSND/ PHPA

## Operator

Company Anadarko

Address Granite Tower  
1099 18th St. #1800  
Denver, CO 80202  
(JG)

## Geologist

Name ISAAC SMITH & JERED KARR (LATERAL)

Company COLUMBINE LOGGING INC.

Address 2385 S. Lipan Street  
Denver, CO 80223  
Phone: 303-289-7764

## Zone Color Coding

Oil  
Note  
Error

Condensate  
Core  
Water

G  
Pl  
S

Rock Types

UNKNOWN	COAL	MARLSTONE	SHALY SANDSTONE
ANHYDRITE	CONGLOMERATE	METAMORPHIC	SHALY SILTSTONE
BENTONITE	DOLOMITE	NO SAMPLE	SILTY SHALE
BRECCIA	DOLOMITIC LIMESTONE	SALT	SILTSTONE
CHALK	GRANITE	SANDSTONE	TILL
CEMENT	GYPSUM	SALT-PEPPER SAND	TUFF
CHERT	IGNEOUS	SHALE	WELDED TUFF
CLAY CHOKE SAND	SIDERITE or LIMONITE	SHALE COLORED	
CLAYSTONE	LIMESTONE	SHALE GRAY	

Accessories

GASTROPOD	ARGILLITE GRAIN	HEAVY MINERAL	
INOCERAMUS	B BENTONITE	K KAOLIN	
ALGAE	BITUMENOUS SUBSTANCE	M MARCASITE	ANHYDRITE STRINGER
AMPHIPORA	BRECCIA FRAGMENTS	M MARLSTONE	BENTONITE STRINGER
BELEMNITE	PELCOYPOD	M MICACEOUS	COAL STRINGER
BIOCLASTIC	PELLET	MINERAL CRYSTALS	DOLOMITE STRINGER
BRACHIOPOD	PISOLITE	N NODULES	GYPSUM STRINGER
BRYOZOA	PLANT REMAINS	PHOSPHATE PELLETS	LIMESTONE STRINGER
CEPHALOPOD	PLANT SPORES	COAL - THIN BEDS	MARLSTONE (CALC) STRG
CORAL	SCAPHOPOD	D DOLOMITIC	MARLSTONE (DOL) STRG
CRINOID	STROMATOPOROID	F FELDSPAR	SANDSTONE STRINGER
ECHINOID		S SIDERITE	SHALE STRINGER
FISH		F FERRUGINOUS PELLET	
FORAMINIFERA	ANHYDRITIC	F FERRUGINOUS	SILTY
F FOSSIL	ARGILLACEOUS	GLAUCONITE	SILTY
		GYPSIFEROUS	TUFFACEOUS

Oil Show

P PINPOINT
V VUGGY

Engineering

D DEAD
E EVEN
Q QUESTIONABLE
BIT
SPOTTED STAINING
CONNECTION (UP)

Porosity

CONNECTION (DOWN)
E EARTHY
F FENESTRAL
TRIP GAS
F FRACTURE
TRIP GAS (LEFT)
INTERCRYSTALLINE
DOWN TIME GAS
INTEROOLITIC
DOWN TIME GAS
M MOLDIC
CORE - LOST
O ORGANIC
CORE - RECOVER

Other Symbols

 DST INTERVAL       WIRELINE TESTED - LEFT       E EARTHY

 FAULT       WIRELINE TESTED - RT       FX FINELYXLN

 FORMATION TOP       DRILL STEM TEST       GS GRAINSTONE



 GAS SHOW       MINDEPTH MN DEPTH       L LITHOGRAPHIC



 OIL SHOW       MINDEPTH MN DEPTH       MX MICROXLN

 MINDEPTH MN DEPTH UP      **Rounding**       MMS MUDSTONE

 MINDEPTH MN DEPTH (DOWN)       A ANGULAR       PMS PACKSTONE

 NORMAL FAULT       R ROUNDED       WMS WACKSTONE


 OVERTURNED STRATA       B SUBANG




 REVERSE FAULT       M SUBRND

Sorting

 CASING       M MODERATE

Textures

 SIDEWALL CORE (LEFT)       P POOR

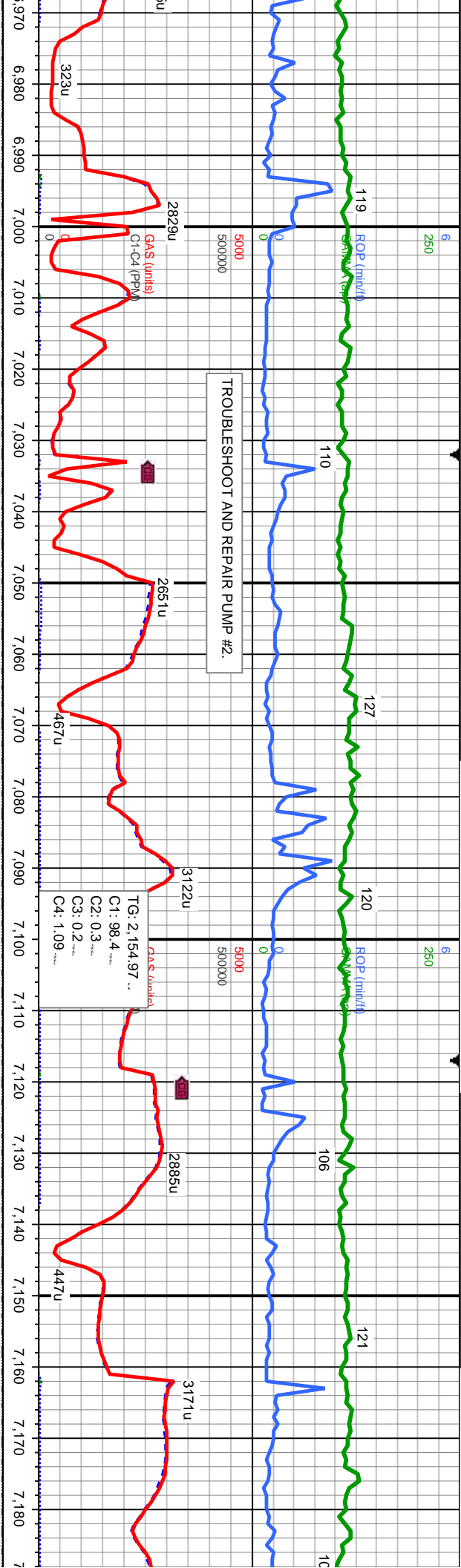
 SIDEWALL CORE (RIGHT)       BS BOUNDSTONE       W WELL

 SLIDE       C CHALKY

 SURVEY       CXX CRYPTOXLN







MD: 6.983.  
TVD: 6,897.65  
Incl.: 5.87 -  
Azim.: 184.85 -  
VS: -316.99

TVD (ft)

MD: 7.025.  
TVD: 6,939.25  
Incl.: 9.84 -  
Azim.: 184.43 -  
VS: -311.27

TVD (ft)

MD: 7.068.  
TVD: 6,981.25  
Incl.: 14.72 -  
Azim.: 184.2 -  
VS: -302.15

TVD (ft)

MD: 7.110.  
TVD: 7,021.49  
Incl.: 18.56 -  
Azim.: 180.82 -  
VS: -290.14

TVD (ft)

MD: 7.153.  
TVD: 7,061.67  
Incl.: 23.1 -  
Azim.: 176.23 -  
VS: -274.87

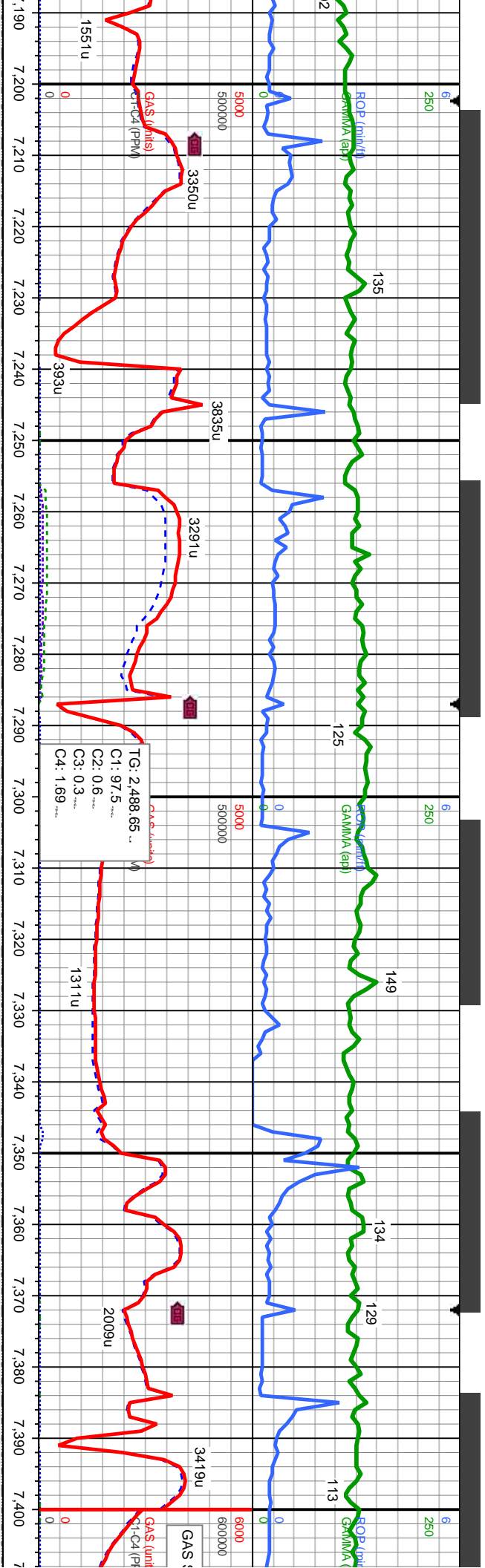
TVD (ft)

WT IN 10.5/ OUT 10.5  
VIS IN 41/ OUT 41

WT IN 10.5/ OUT 10.5  
VIS IN 41/ OUT 41

SLTY SH: med-dk gy-blk, sb blk-y-sb pily, frm- mod frm, sl  
fri, silty, sl gti, difse sl stmg dul bl-wh cut, thn dul bl resd ring

SLTY SH: med-dk gy-blk, sb blk-y-sb pily, frm- mod frm,  
sl fri, silty, difse sl stmg dul bl-wh cut, thn dul bl resd ring



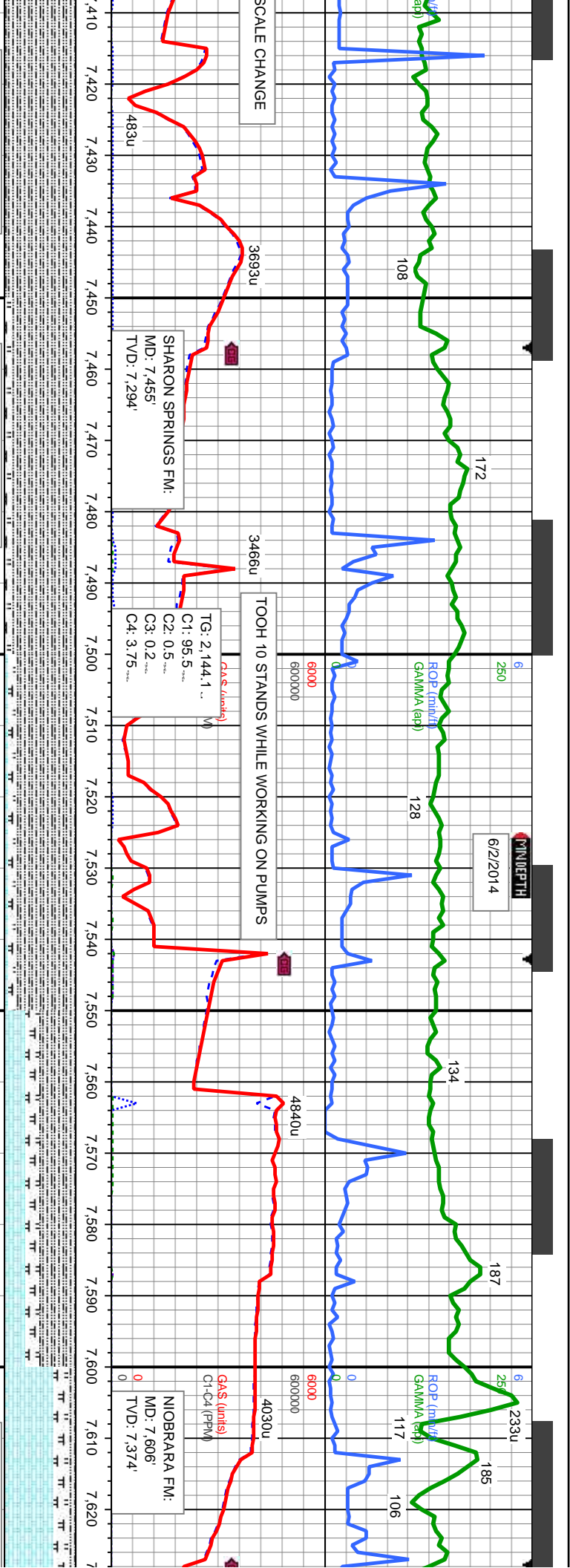
195. 7,099.45 - 8.62 - 173.42 - 56.65.	MD: 7,238. TVD: 7,136.17. Incl.: 34.01 - Azim.: 174.47 - VS: -234.44.	MD: 7,280. TVD: 7,170.2. Incl.: 37.73 - Azim.: 175.33 - VS: -209.94.	MD: 7,323. TVD: 7,203.66. Incl.: 40.08 - Azim.: 177.5 - VS: -183.	MD: 7,366. TVD: 7,235.61. Incl.: 43.94 - Azim.: 179.99 - VS: -154.24.	MD: 7,408. TVD: 7,264.4. Incl.: 48.78 - Azim.: 181.4 VS: -123.85
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SLTY SH: med-dk gy-bk, sb blk-y-sb pily, frm- mod frm, -  
sl fri, silty; difse sl stmg dul br-wh cut, thn dul bl resedl ring

SLTY SH: med-dk gy-bk, sb blk-y-sb pily, frm- mod frm, -  
sl fri, silty; difse sl stmg dul br-wh cut, thn dul bl resedl ring







WT: 10.5 @ 114F  
FV: 45  
PV: 12  
YP: 15  
CK APT/HT: 1/1  
Sol: 10.5  
pH/Temp.: 9.4 @ 114F  
Chl: 1,800

MD: 7.451  
TVD: 7.291.72  
Incl.: 52.93  
Azim.: 180.97  
VS: -90.52

50' SAMPLE INTERVAL  
50' SAMPLE DESCRIPTION

MD: 7.493  
TVD: 7.316.17  
Incl.: 56.86  
Azim.: 180.57  
VS: -56.37

MD: 7.536  
TVD: 7.339.5  
Incl.: 58.44  
Azim.: 181.01  
VS: -20.26

MD: 7.579  
TVD: 7.361.17  
Incl.: 61.02  
Azim.: 180.56  
VS: 16.88

MD: 7.621  
TVD: 7.380.6  
Incl.: 63.61  
Azim.: 180.5  
VS: 54.06

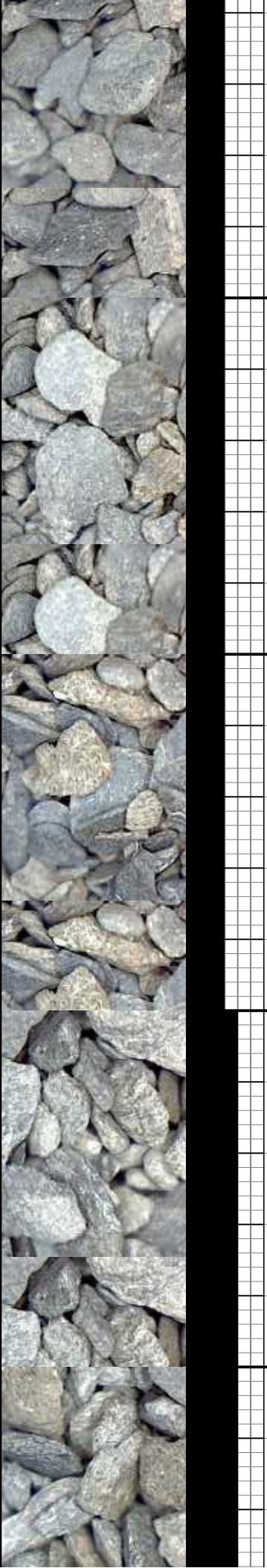
SLTY SH: med-dk gy-blk, sb blk-y-sb ply  
frm- mod frm, sl fri, slty, difse sl  
sb blk-y-sb ply, frm, arg- sl slty, v calc, difse sl  
sting dui bl-wh cut, thn dui bl resd ring

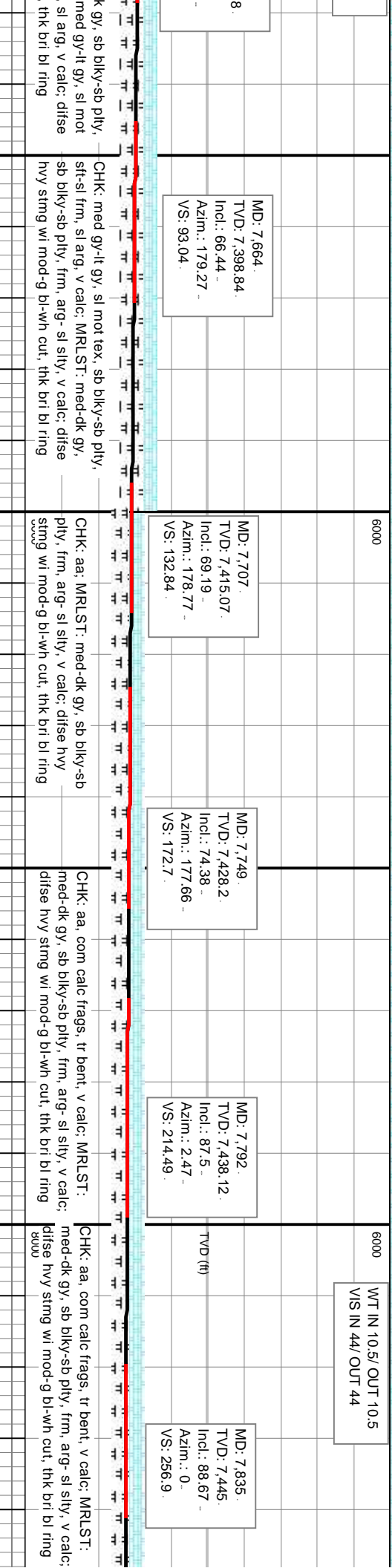
SLTY SH: lbn-med-dk gy-blk, sb blk-y-sb ply  
frm- mod frm, sl fri, slty, sl gt; MRLST: med-dk gy,  
sb blk-y-sb ply, frm, arg- sl slty, v calc, difse sl  
sting dui bl-wh cut, thn dui bl resd ring

SLTY SH: lbn-med-dk gy-blk, sb blk-y-sb  
ply - ply, frm- mod frm, slty; MRLST: aa:  
CHK: med gy-lt gy, sl mot tex, sb blk-y-sb  
ply, stl-sl frm, sl arg, v calc; difse sl  
sting dui bl-wh cut, thn dui bl resd ring

SLTY SH: aa; MRLST: med-dk gy, sb  
blk-y-sb ply, frm, arg- sl slty, v calc;  
CHK: med gy-lt gy, sl mot tex, sb blk-y-sb  
ply, stl-sl frm, sl arg, v calc; difse hvy  
sting wi mod-g bl-wh cut, thk dui bl ring

SLTY SH: aa; MRLST: med-d  
frm, arg- sl slty, v calc; CHK:  
tex, sb blk-y-sb ply, stl-sl frm  
hvy sting wi mod-g bl-wh cut







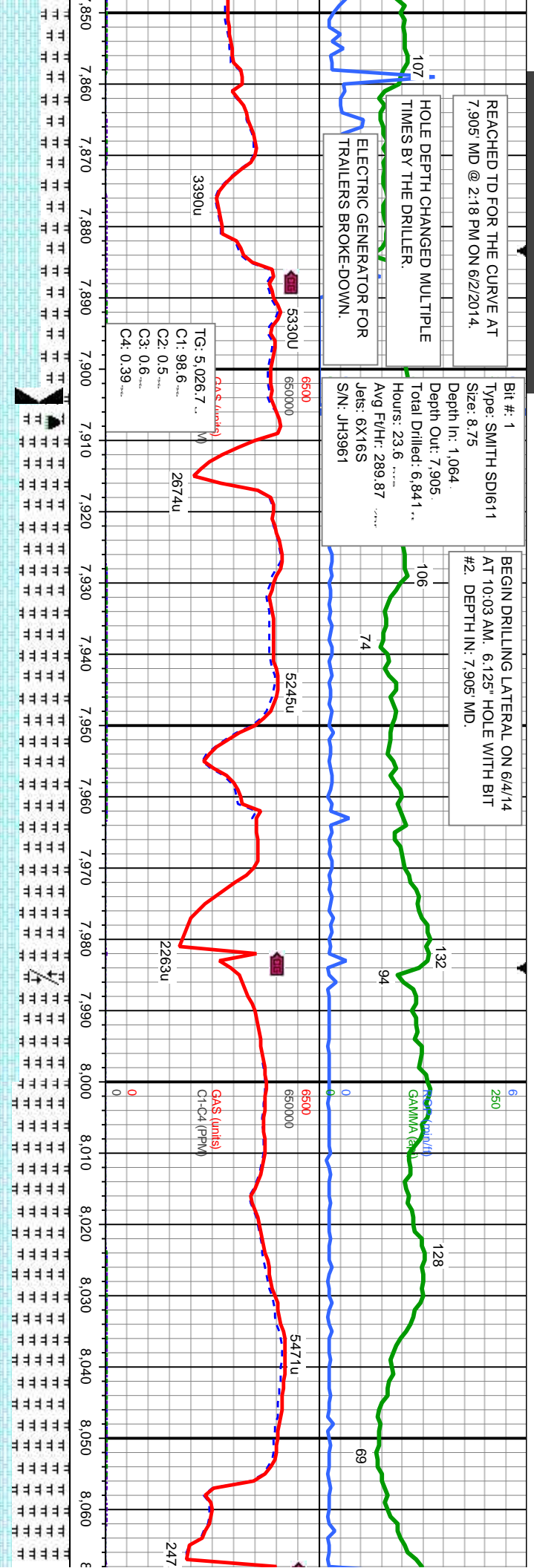
REACHED TD FOR THE CURVE AT  
7.905' MD @ 2:18 PM ON 6/2/2014.

HOLE DEPTH CHANGED MULTIPLE  
TIMES BY THE DRILLER.

ELECTRIC GENERATOR FOR  
TRAILERS BROKE-DOWN.

Bit #: 1  
Type: SMITH SD1611  
Size: 8.75  
Depth In: 1.064.  
Depth Out: 7.905  
Total Drilled: 6.841 ..  
Hours: 23.6  
Avg FV/Hr: 289.87  
Jets: 6X16S  
S/N: JH3961

BEGIN DRILLING LATERAL ON 6/4/14  
AT 10:03 AM. 6.125" HOLE WITH BIT  
#2. DEPTH IN: 7.905' MD.



WT: 10.5 @ 114F  
FV: 43  
PV: 11  
YP: 14  
CK APT/HT: 1/1  
Sol: 11  
pH/Temp: 9.5 @ 114F  
Chl: 1,600

MD: 7.856  
TVD: 7.447.35  
Incl.: 89.23  
Azim.: 359.85  
VS: 277.75

6000  
WT IN 9.3/ OUT 9.3  
VIS IN 43/ OUT 43

PROJECTED TO BIT

MD: 7.905  
TVD: 7.449.89  
Incl.: 89.87  
Azim.: 358.81  
VS: 326.65

FAULT 1 OF 4:  
MD: 7.985'  
TVD: 7.450'  
VS: 407'  
11' UPWARD THROW

MD: 7.929  
TVD: 7.450.03  
Incl.: 90.24  
Azim.: 357.2  
VS: 350.65

6000  
100' SAMPLE INTERVAL  
100 SAMPLE DESCRIPTION

TVD (ft)

MD: 8.014  
TVD: 7.449.72  
Incl.: 89.96  
Azim.: 357.8  
VS: 435.65

WT: 9.2 @ 98F  
FV: 44  
PV: 11  
YP: 13  
CK APT/HT: 1/1  
Sol: 4.5  
pH/Temp: 9.7 @ 98F  
Chl: 1,500

MD: 7.856  
TVD: 7.447.35  
Incl.: 89.23  
Azim.: 359.85  
VS: 277.75

CHK: med gy-lt gy, sl mot tex, sb blk-y-sb ply, sft-sl frm, com calc frags, tr bent, v calc, MRLST: med-dk gy, sb blk-y-sb ply, frm, arg- sl silty, v calc; disse hvy string wi mod-g bl-wh cut, thk bri bl ring

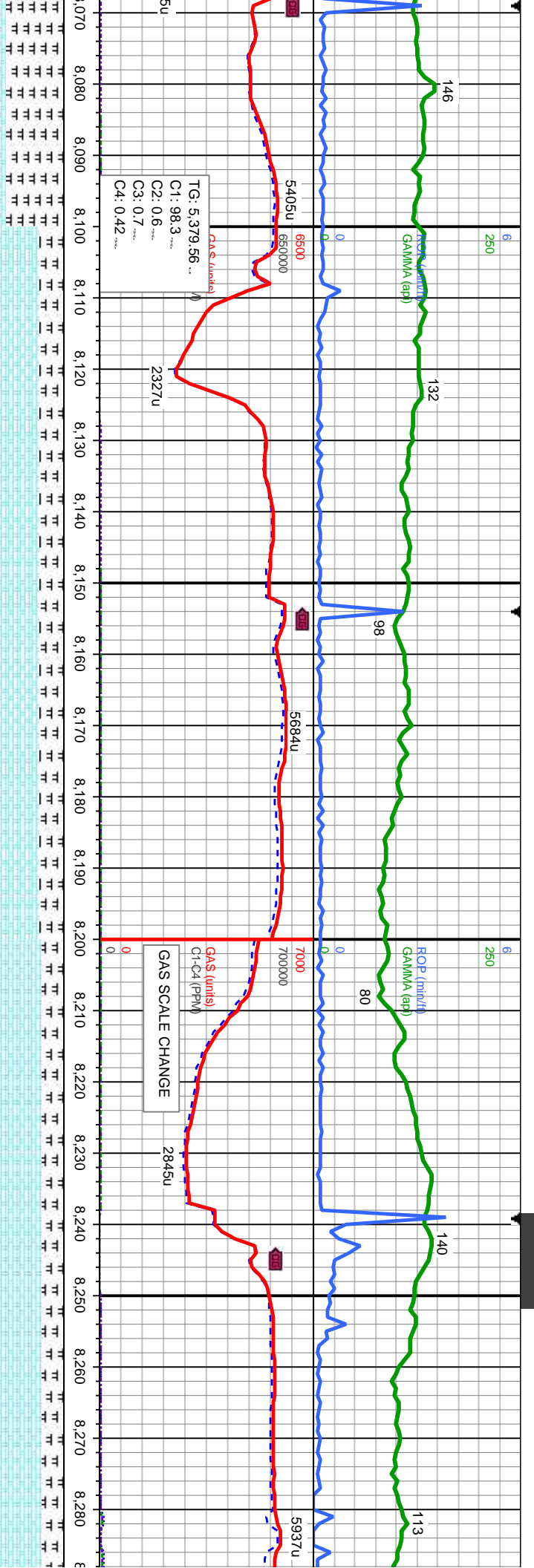
8000

CHK: med gy-lt gy, sl mot tex, sb blk-y-sb ply, sft-sl frm, com calc frags, tr bent, v calc, MRLST: med-dk gy, sb blk-y-sb ply, frm, arg- sl silty, v calc; string wi occ strgs, lt bl flwr wi bri bl-wh disse cut, thn bri bl resd ring

8000

CHK: med gy-lt gy, sl mot tex, sb blk-y-sb ply, sft-sl frm, com calc frags, tr bent, v calc, MRLST: med-dk gy, sb blk-y-sb ply, frm, arg- sl silty, v calc; string wi occ strgs, lt bl flwr wi bri bl-wh disse cut, thn bri bl resd ring





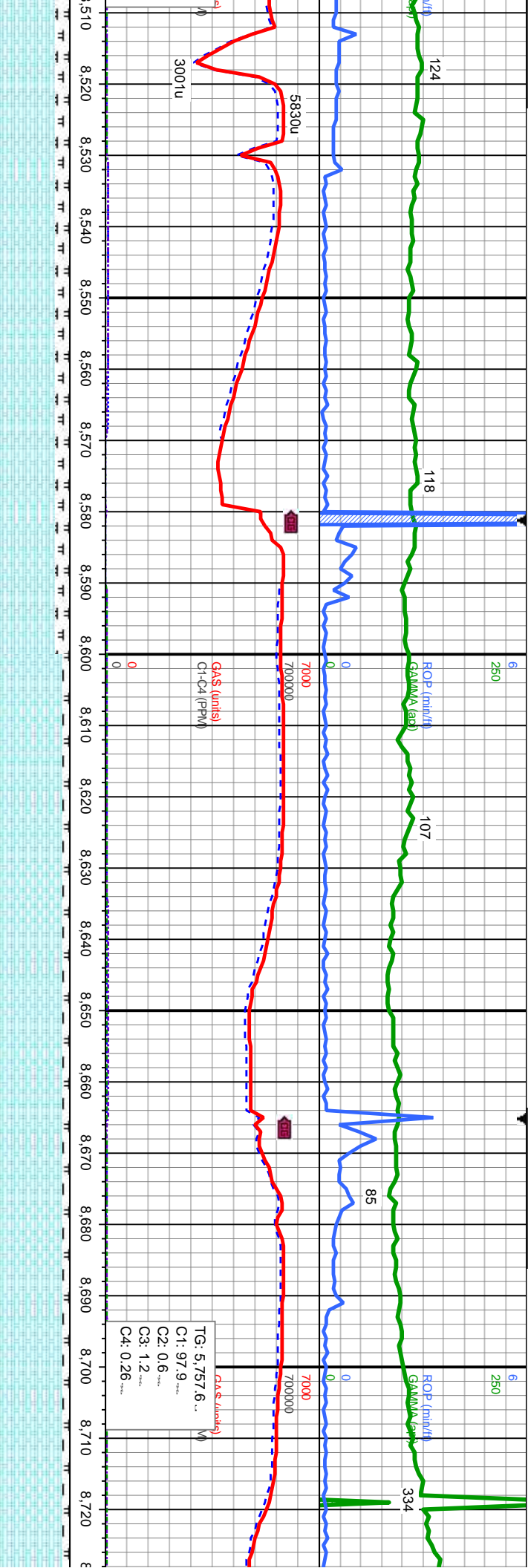
6000		6000	
TVD (ft)		TVD (ft)	
CHK: med gy-lt gy, sl mot tex, sb blk-y-sb ply, sft-sl frm, com calc frags, tr bent, v calc; MRLST: med-dk gy, sb blk-y-sb ply, frm, arg-sl sily, v calc; string wi occ strgs, lt bl flwr wi bri bl-wh difse cut, thn bri bl resdl ring		CHK: med gy-lt gy, sl mot tex, sb blk-y-sb ply, sft-sl frm, com calc frags, tr bent, v calc; MRLST: med-dk gy, sb blk-y-sb ply, frm, arg-sl sily, v calc; string wi occ strgs, lt bl flwr wi bri bl-wh difse cut, thn bri bl resdl ring	
8000		8000	











MD: 8,526.  
TVD: 7,438.38  
Incl.: 90.33 -  
Azim.: 181.18 -  
VS: 947.47

6000  
TVD (ft)

MD: 8,696.  
TVD: 7,437.62  
Incl.: 90.18 -  
Azim.: 180.85 -  
VS: 1,117.45

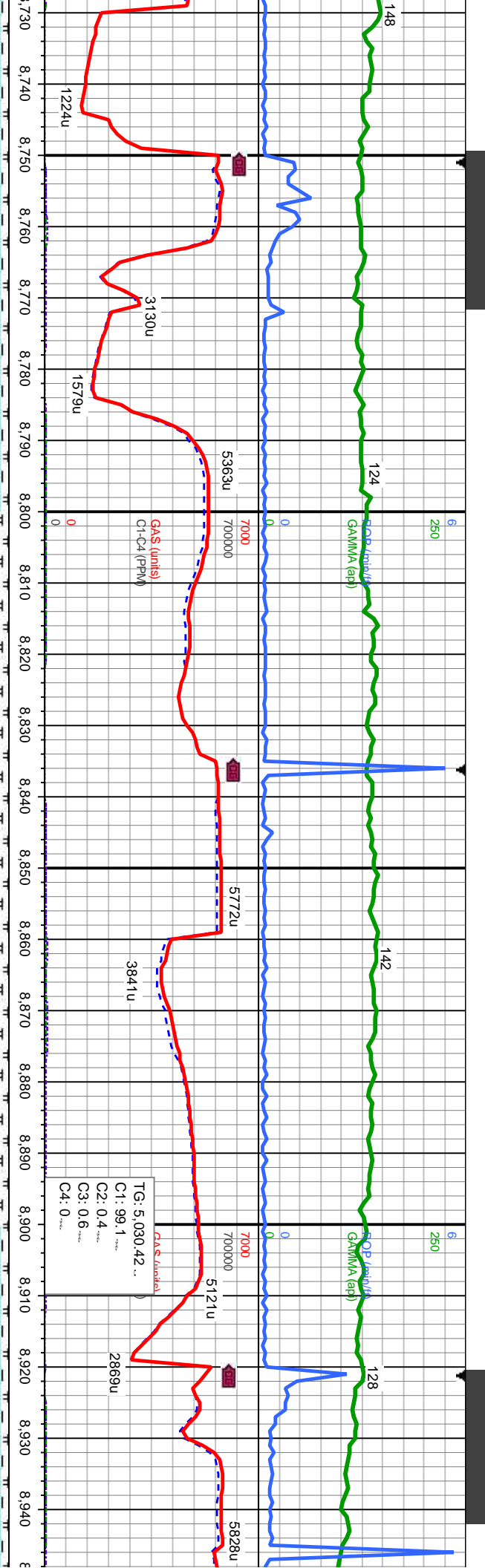
6000

CHK: med gy-ll gy, sl mot tex, sb blyk-sb ply, sft-sl frm, com calc frags, tr bent, v calc; MRLST: med-dk gy, sb blyk-sb ply, frm, arg-sl sily, v calc; string wi occ strgs, lt bl flr wi bri bl-wh difse cut, thn bri bl resd ring

CHK: med gy-ll gy, sl mot tex, sb blyk-sb ply, sft-sl frm, com calc frags, v calc; MRLST: med-dk gy, sb blyk-sb ply, frm, arg-sl sily, v calc; string wi occ strgs, lt bl flr wi bri bl-wh difse cut, thn bri bl resd ring

CHK: med gy-ll gy, pvt, v calc; MRLST string wi occ strgs,





6000		6000	
TVD (ft)		TVD (ft)	
sl mot tex, sb blk-y-sb pily, sft-sl frm, com calc frags, tr : med-dk gy, sb blk-y-sb pily, frm, arg- sl silty, v calc; it bl flr wi bri bl-wh disse cut, thn bri bl resd ring		CHK: med gy-lt gy, sl mot tex, sb blk-y-sb pily, sft-sl frm, com calc frags, v calc; MRLST: med-dk gy, sb blk-y-sb pily, frm, arg- sl silty, v calc; stmg wi occ strgs, it bl flr wi bri bl-wh disse cut, thn bri bl resd ring	
8000		8000	

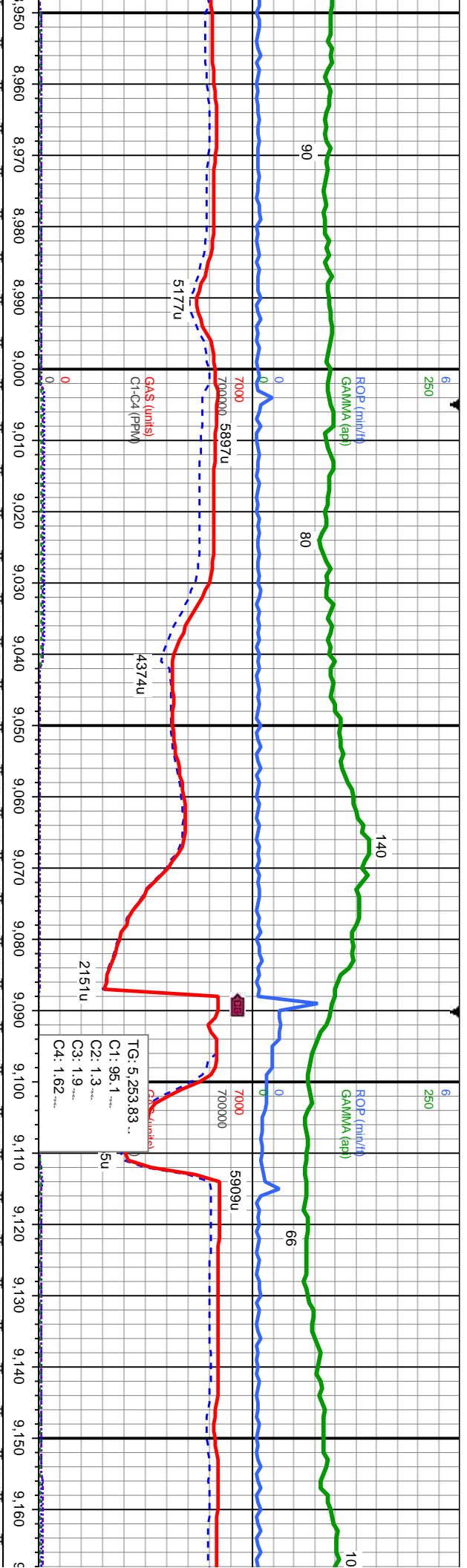
MD: 8,867.  
TVD: 7,437.73.  
Incl.: 89.75 -  
Azim.: 181.34 -  
VS: 1,288.43.

TG: 5.030.42 ..  
C1: 99.1  
C2: 0.4  
C3: 0.6  
C4: 0.0

WT IN 9.3/ OUT 9.3  
VIS IN 41/ OUT 42





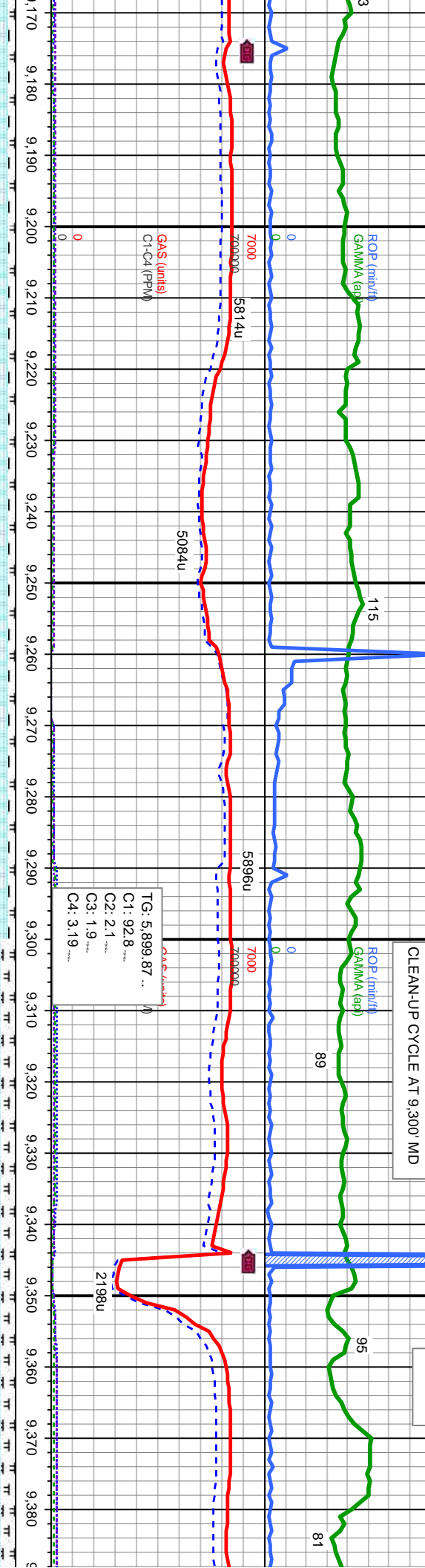
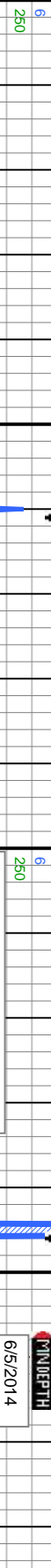


6000	6000
TVD (ft)	TVD (ft)
MD: 9,036. TVD: 7,438.38 Incl.: 89.81 - Azim.: 180. VS: 1,457.42.	

biky-sb pily, sft-sl frm, com calc frags, y-sb pily, frm, arg-sl sily, v calc: string dise cut, thn bri bl resd ring	8000	CHK: med gy-lt gy, sl mot tex, sb biky-sb pily, sft-sl frm, com calc frags, v calc: MRLST: med-dk gy, sb biky-sb pily, frm, arg-sl sily, v calc: string wi occ strgs, lt bl flr wi bri bl-wh dise cut, thn bri bl resd ring	8000
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TG: 5.899.87 ...  
C1: 92.8 ...  
C2: 2.1 ...  
C3: 1.9 ...  
C4: 3.19 ...

MD: 9.207  
TVD: 7.438.99  
Incl.: 89.78 -  
Azim.: 180.55 -  
VS: 1.628.42

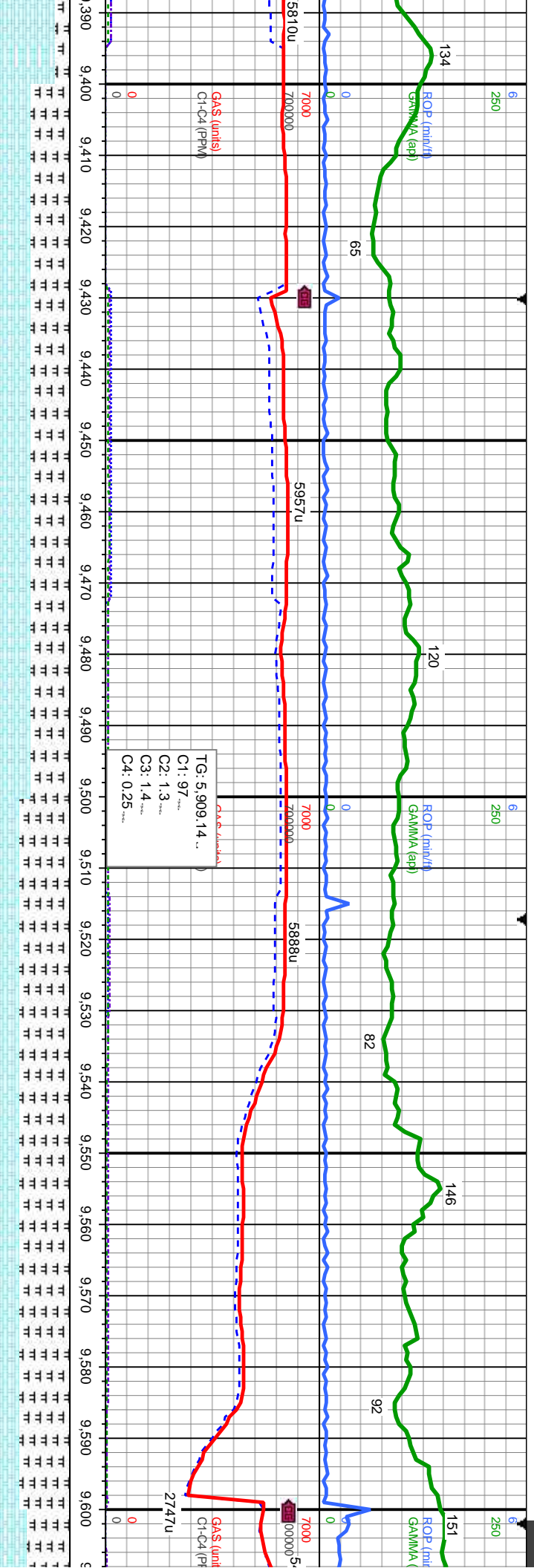
FAULT 2 OF 4:  
MD: 9.349'  
TVD: 7.440'  
VS: 1.770'  
12' UPWARD THROW

MD: 9.377  
TVD: 7.440.69  
Incl.: 89.07 -  
Azim.: 179.99 -  
VS: 1.798.41

WT IN 9.3/ OUT 9.3  
VIS IN 42/ OUT 42

occ calc sily, v	8000	CHK: med gy-it bf gy, sl mot du tex, sb blk-ly-sb pily, sft-sl frm, tr calc frags, v calc; MRLST: med-dk gy, sb blk-ly-sb pily, frm, arg-sl sily, v calc; mod-hvy, difse stmg bl-wh mky cut; thn bri bl-wh resd ring	8000	CHK: med gy-it bf gy, sl mot du tex, sb blk-ly-sb pily, sft-sl frm, tr calc frags, v calc; MRLST: med-dk gy, sb blk-ly-sb pily, frm, arg-sl calc; mod-hvy, difse stmg bl-wh mky cut; thn bri bl-wh resd ring
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WT: 9.3 @ 106F  
FV: 42  
PV: 10  
YP: 12  
CK APT/HT: 1/1  
Sol: 5  
pH/Temp: 9.4 @ 106F  
Chl: 1,300

TVD (ft)

TVD (ft)

TVD (ft)

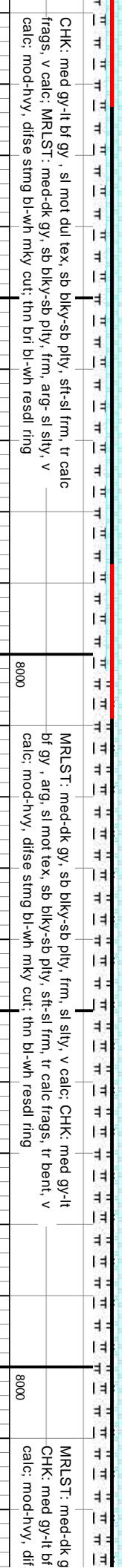
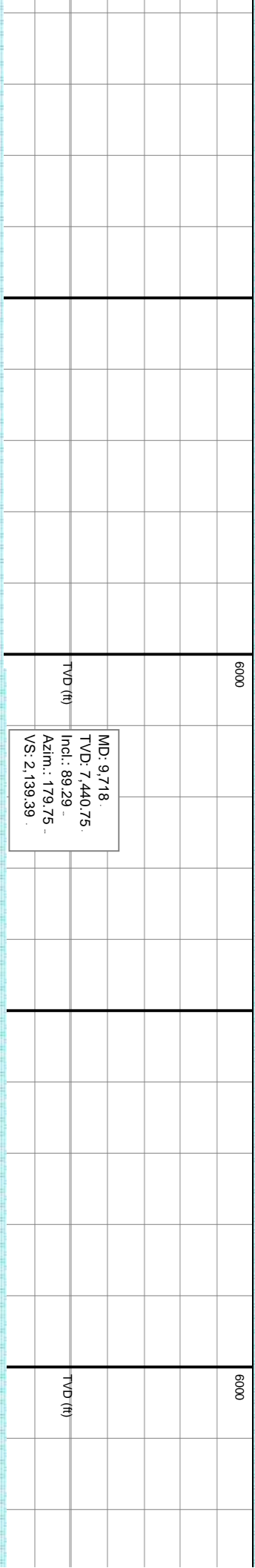
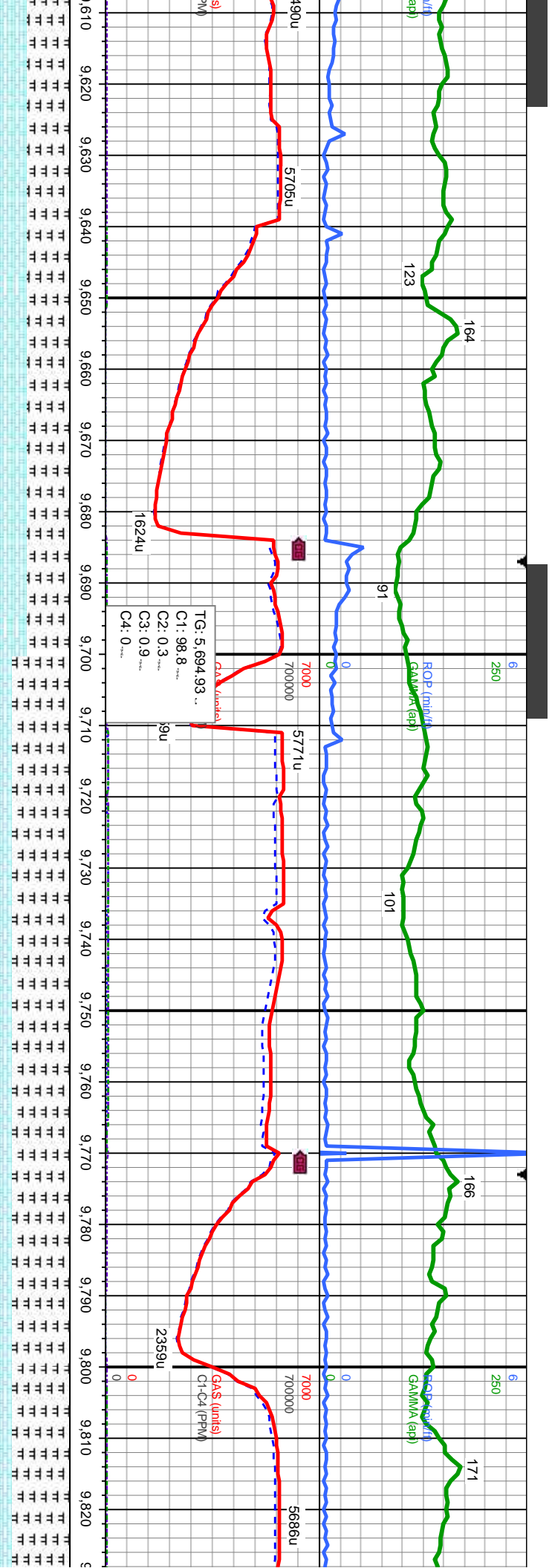
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CHK: med gy-lt br gy, sl mot dul tex, sb blkly-sb plty, sft-sl frm, tr calc frags, v calc; MRLST: med-dk gy, sb blkly-sb plty, frm, arg-sl slty, v calc; mod-hvy, difse sting bl-wh mky cut; thn bri bl-wh resdl ring

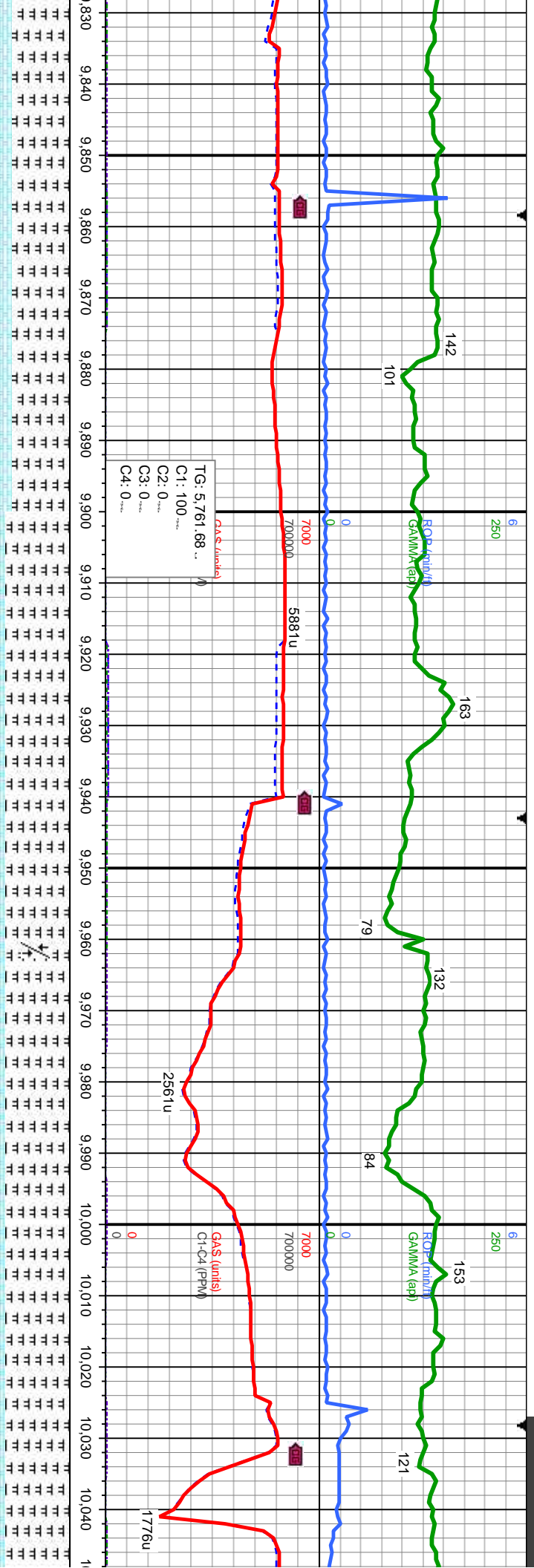
CHK: med gy-lt br gy, sl mot dul tex, sb blkly-sb plty, sft-sl frm, tr calc frags, v calc; MRLST: med-dk gy, sb blkly-sb plty, frm, arg-sl slty, v calc; mod-hvy, difse sting bl-wh mky cut; thn bri bl-wh resdl ring









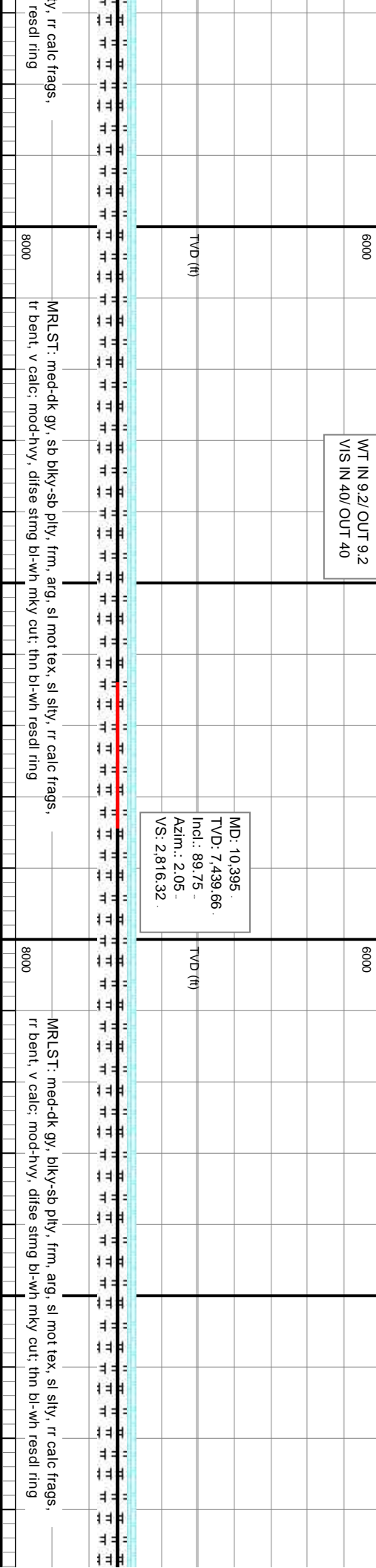
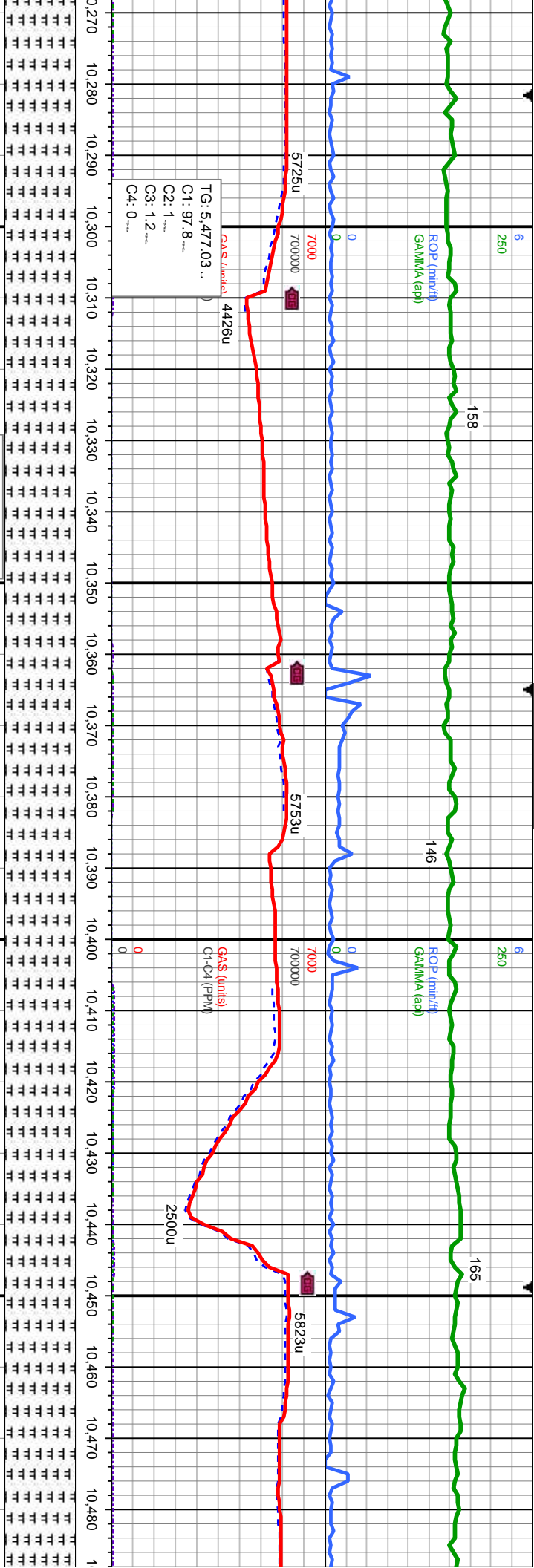


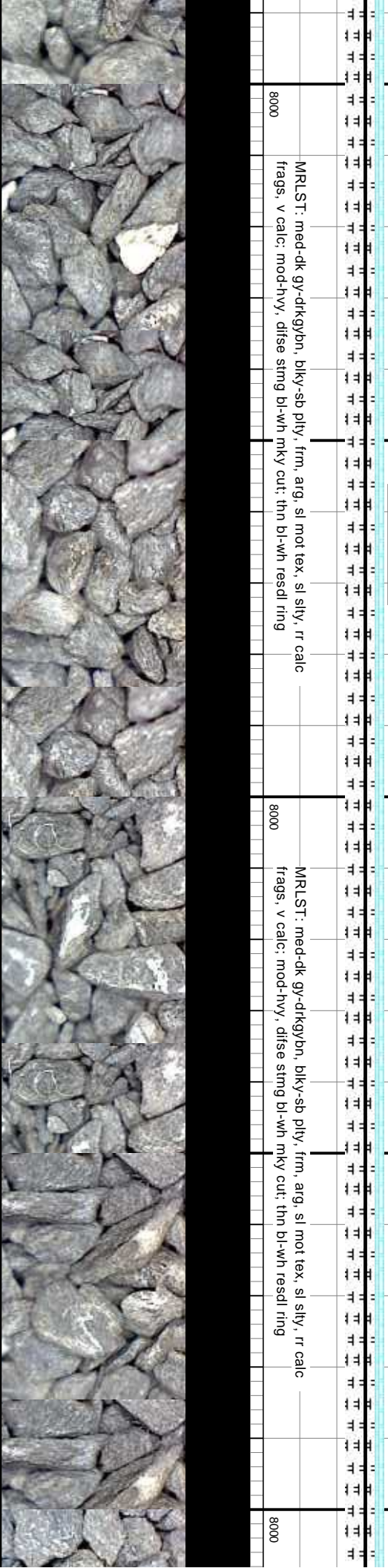
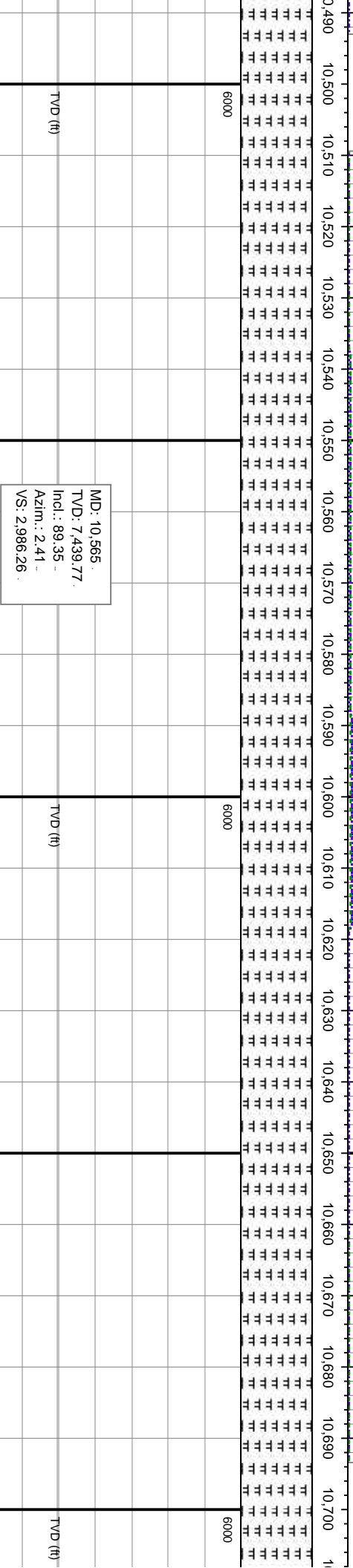
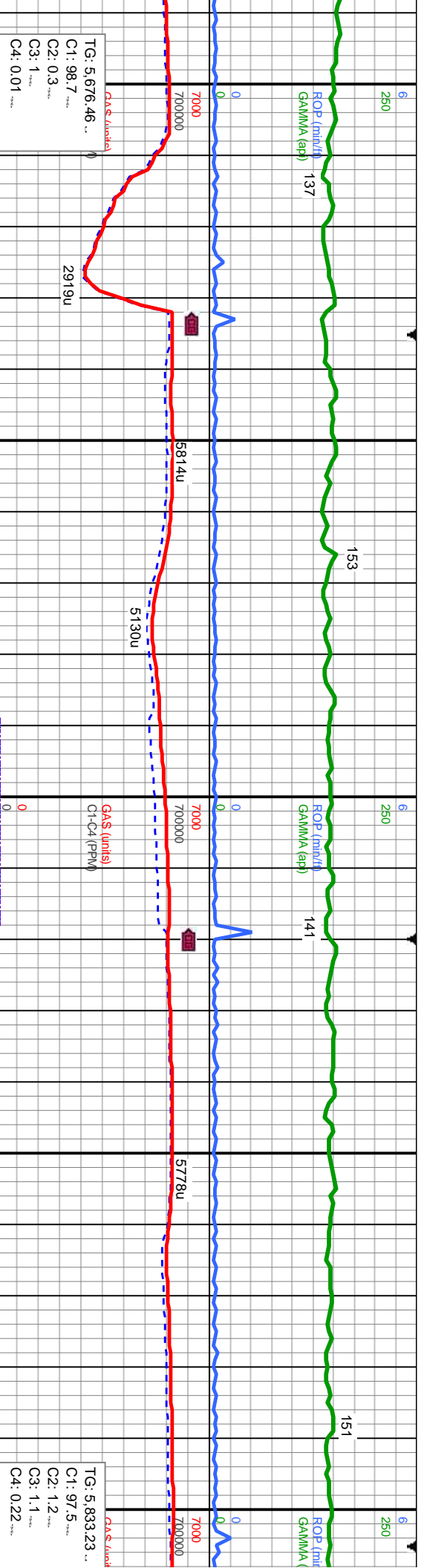
Y, sb blk-y-sb pty, frm, sl mot tex, sl silty, v calc:	Y, sb blk-y-sb pty, frm, sl mot tex, sl silty, v calc:	Y, sb blk-y-sb pty, frm, sl mot tex, sl silty, v calc:
gy, arg, sb blk-y-sb pty, sft-sl frm, tr calc frags, v	gy, arg, sb blk-y-sb pty, sft-sl frm, tr calc frags, v	gy, arg, sb blk-y-sb pty, sft-sl frm, tr calc frags, v
case stmg bl-wh mky cut: thn bl-wh resd ring	case stmg bl-wh mky cut: thn bl-wh resd ring	case stmg bl-wh mky cut: thn bl-wh resd ring
MD: 9,888 TVD: 7,441.54 Incl.: 90.18 Azim.: 180.21 VS: 2,309.39	FAULT 3 OF 4: MD: 9,961 TVD: 7,441 VS: 2,382 9' UPWARD THROW	MD: 9,888 TVD: 7,441.54 Incl.: 90.18 Azim.: 180.21 VS: 2,309.39
8000	8000	8000
MRLST: med-dk gy, sb blk-y-sb pty, frm, sl mot tex, sl silty, v calc:	MRLST: med-dk gy, sb blk-y-sb pty, frm, sl mot tex, sl silty, v calc:	MRLST: med-dk gy, sb blk-y-sb pty, frm, sl mot tex, sl silty, v calc:
CHK: med gy-lt br gy, arg, sb blk-y-sb pty, sft-sl frm, tr calc frags,	CHK: med gy-lt br gy, arg, sb blk-y-sb pty, sft-sl frm, tr calc frags,	CHK: med gy-lt br gy, arg, sb blk-y-sb pty, sft-sl frm, tr calc frags,
v calc: mod-hvy, difse stmg bl-wh mky cut: thn bl-wh resd ring	v calc: mod-hvy, difse stmg bl-wh mky cut: thn bl-wh resd ring	v calc: mod-hvy, difse stmg bl-wh mky cut: thn bl-wh resd ring
8000	8000	8000
MRLST: med-dk gy, sb blk-y-sb pty, frm,	MRLST: med-dk gy, sb blk-y-sb pty, frm,	MRLST: med-dk gy, sb blk-y-sb pty, frm,
lthn ip-med gy-lt-gy, arg, sb blk-y-sb pty,	lthn ip-med gy-lt-gy, arg, sb blk-y-sb pty,	lthn ip-med gy-lt-gy, arg, sb blk-y-sb pty,
v calc: mod-hvy, difse stmg bl-wh mky c	v calc: mod-hvy, difse stmg bl-wh mky c	v calc: mod-hvy, difse stmg bl-wh mky c
8000	8000	8000





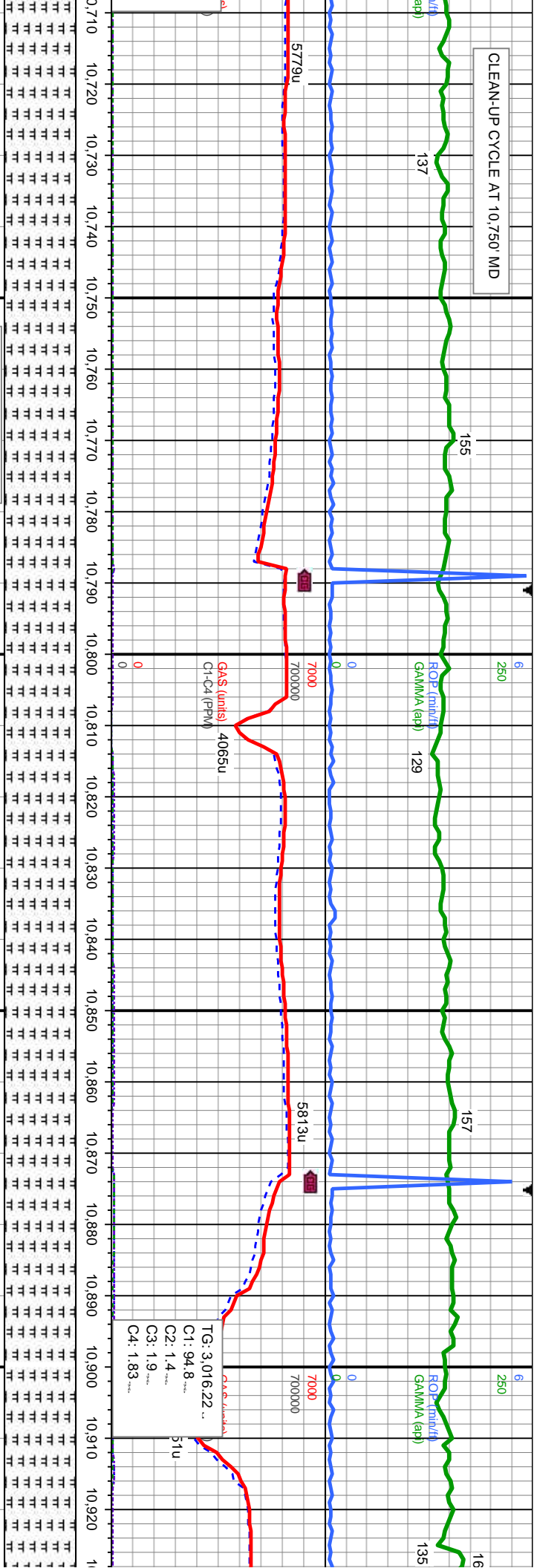








CLEAN-UP CYCLE AT 10,750 MD



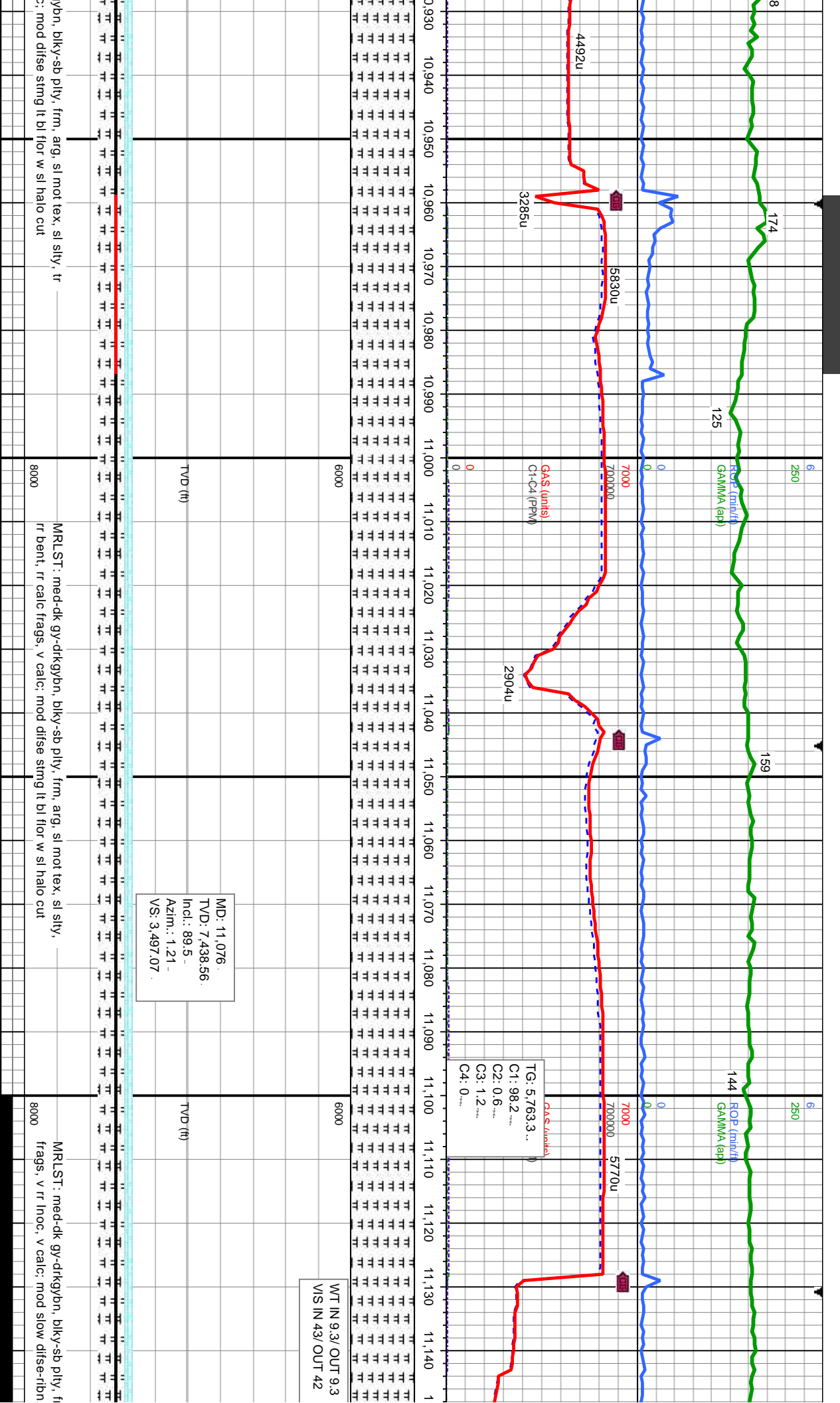
MD: 10,735.  
TVD: 7,439.55.  
Incl.: 89.75 -  
Azim.: 2.13 -  
VS: 3.156.19.

WT: 9.3 @ 106F  
FV: 44  
PV: 10  
YP: 14  
CK APT/HT: 1/1  
Sol: 5  
pH/Temp.: 9.4 @ 114F  
Chl: 1,400

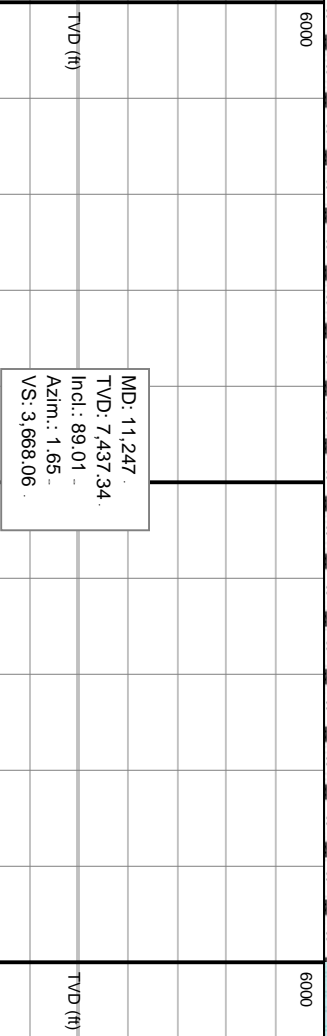
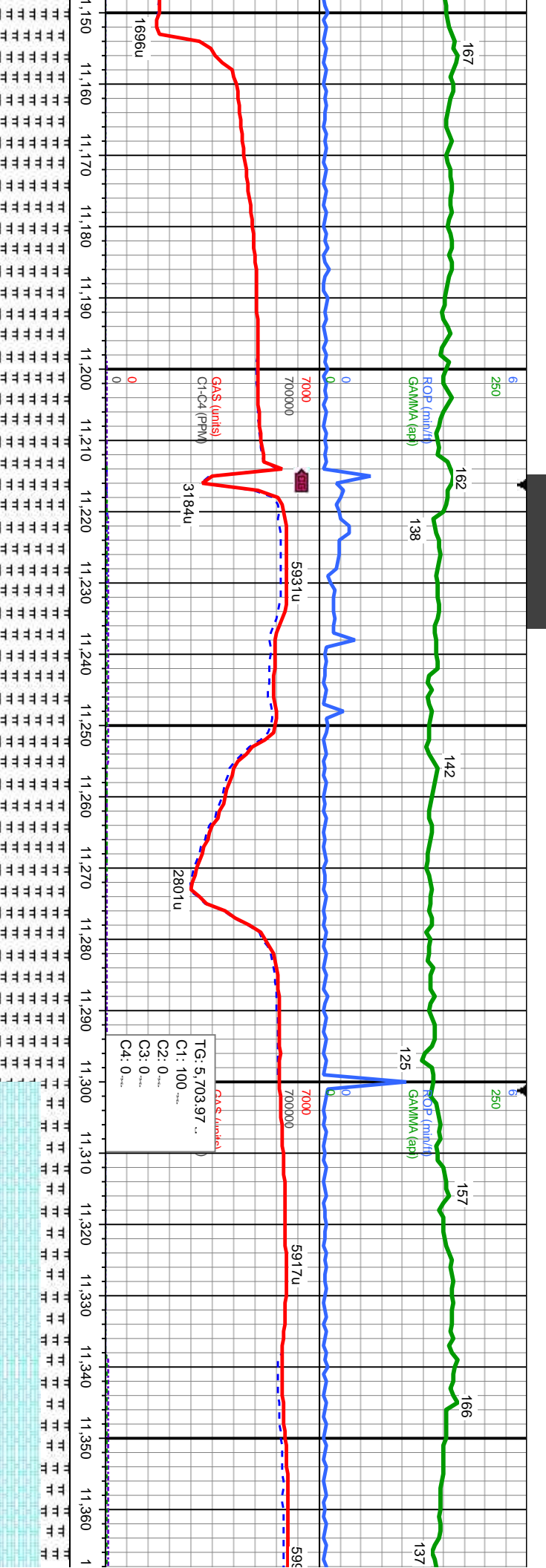
MR.LST: med-dk gy-dkgybn, bky-sb pily, frm, arg, sl mot tex, sl silty, rr calc frags, v calc, mod-hvy, difse sting bl-wh mky cut; thn bl-wh resd ring	8000
MR.LST: med-dk gy-dkgybn, bky-sb pily, frm, arg, sl mot tex, sl silty, tr bent, rr calc frags, v calc, mod-hvy, difse sting bl-wh mky cut; thn bl-wh resd ring	8000
MR.LST: med-dk gy-dkgy bent, rr calc frags, v calc	8000

MD: 10,905.  
TVD: 7,439.1.  
Incl.: 89.66 -  
Azim.: 1.91 -  
VS: 3.326.11.









m, arg, sl mot tex, sl silty, rr bent, rr calc  
sl stmg, bl wh mky cut, pabl resd ring

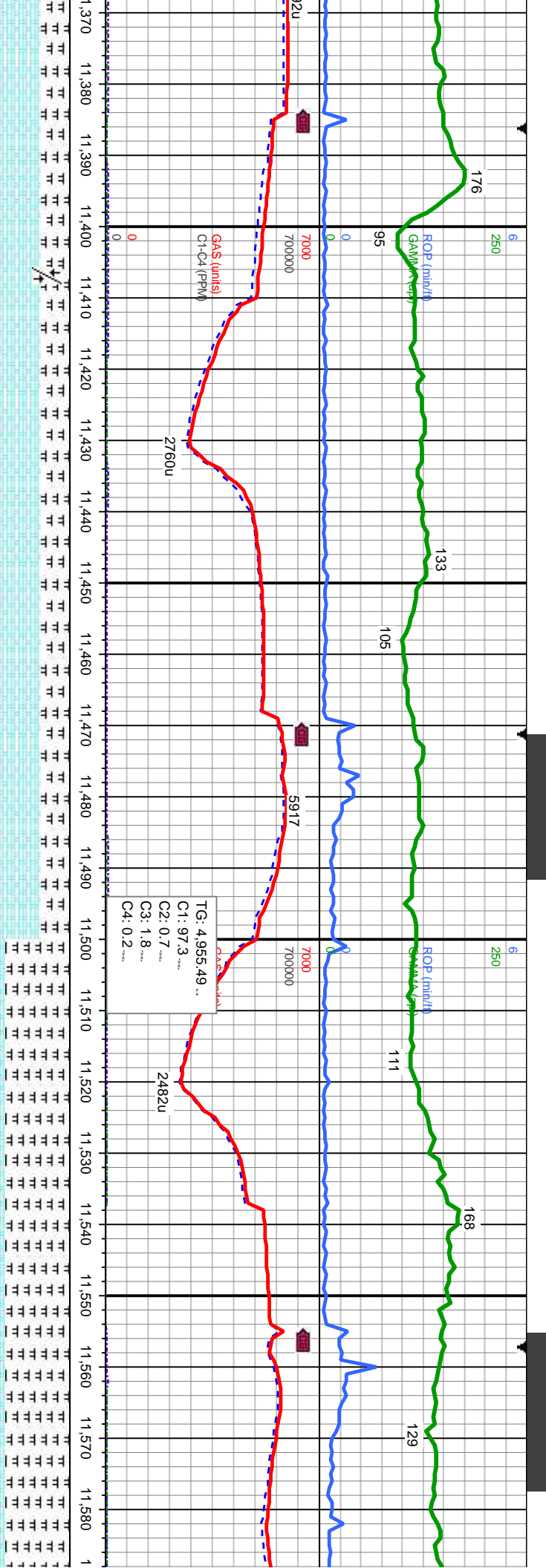
8000

MD: 11,247.  
TVD: 7,437.34.  
Incl.: 89.01  
Azim.: 1.65  
VS: 3,668.06

8000

CHK: ibn ip-med gy-ll-gy, sl dul arg, sb biky-sb pty, sft-sl frm, v med-dk gy-dryg'bn, biky-sb pty, frm, arg, sl mot tex, sl silty, v rr frags, v calc, mod slow bl difse-ribn, sl stmg, bri bl wh mky cut, l





FAULT 4 OF 4:  
MD: 11,406'  
TVD: 7,435'  
VS: 3,827'  
8' UPWARD THROW

MD: 11,416.  
TVD: 7,434.41  
Incl.: 88.91  
Azim.: 1.69  
VS: 3,837.03

TG: 4,955.49  
C1: 97.3  
C2: 0.7  
C3: 1.8  
C4: 0.2

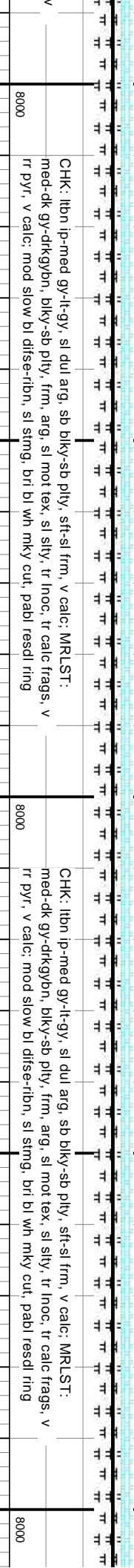
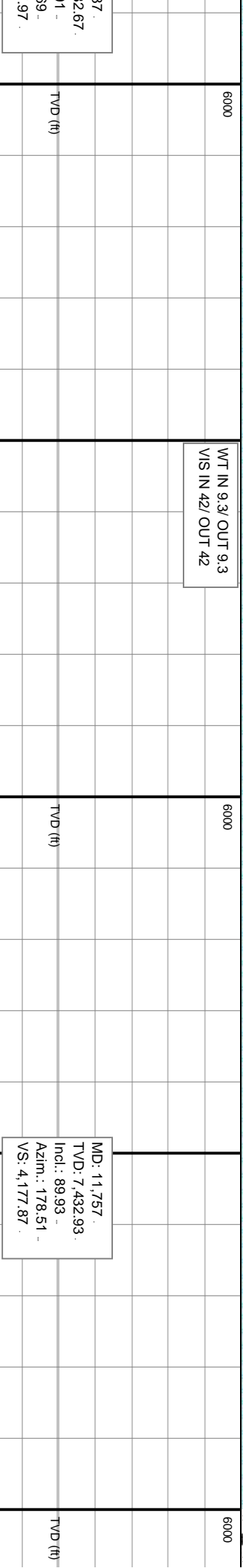
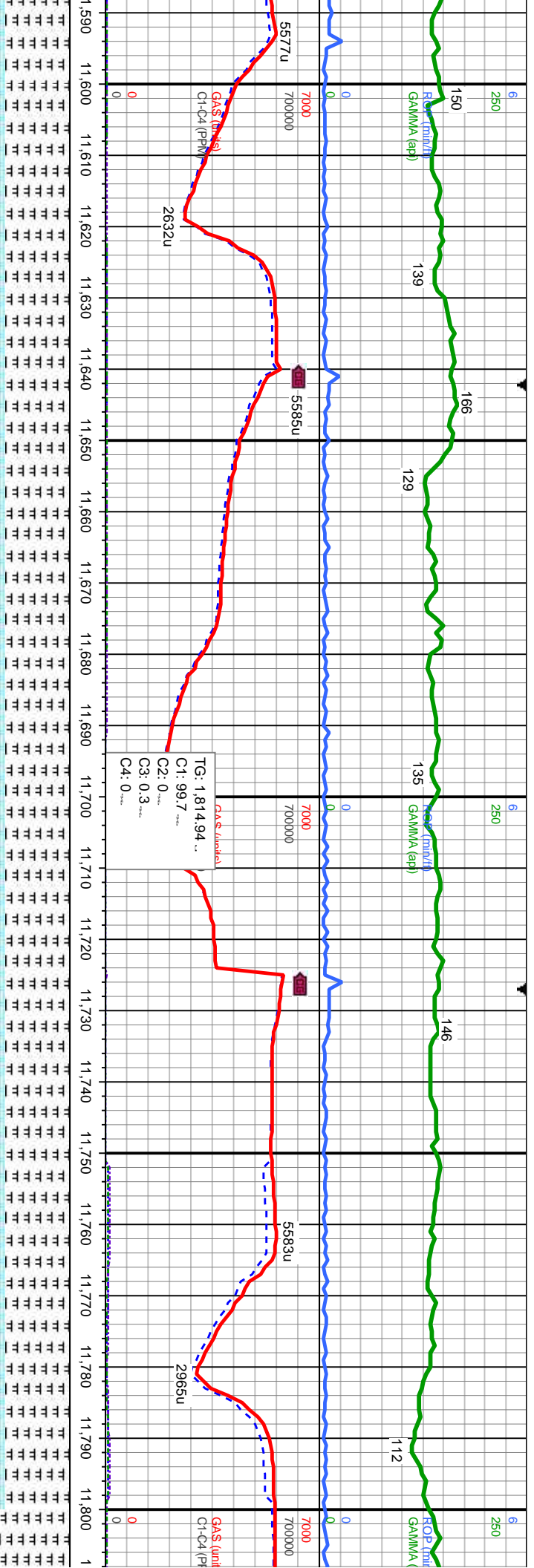
MD: 11,580  
TVD: 7,435  
Incl.: 88.91  
Azim.: 1.69  
VS: 4,007

calc: MRLST:	CHK: lbn ip-med gy-lt-gy, sl dul arg, sb bky-sb ply, sft-sl frm, v calc: MRLST:
bent, rr calc	med-dk gy-dtgybn, bky-sb ply, frm, arg, sl mot tex, sl sily, tr inoc, tr calc frags, v
absl resdl ring	rr pyr, v calc: mod slow bl difse-ribn, sl sting, bri bl wh mky cut, pabl resdl ring

calc: MRLST:	CHK: lbn ip-med gy-lt-gy, sl dul arg, sb bky-sb ply, sft-sl frm, v calc: MRLST:
bent, rr calc	med-dk gy-dtgybn, bky-sb ply, frm, arg, sl mot tex, sl sily, tr inoc, tr calc frags, v
absl resdl ring	rr pyr, v calc: mod slow bl difse-ribn, sl sting, bri bl wh mky cut, pabl resdl ring











#: 2

pe: VAREL VS513D

ze: 6.12

Depth In: 7,905.

Depth Out: 12,005.

Total Drilled: 4,100

Hours: 18.3

g Ft/Hr: 224.04

ts: 3X14/ 2X16  
N: 4007136

N: 400/136

LATERAL AT

PM ON 6/5/2014.

2,030	12,040	12,050	12,060	12,070	12,080
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FOR USING  
LOGGING INC.

NE LOGGING INC.!

9.2 @ 105F.

43

10.

13.  $1000 \times 1000 \times 1000$ 

ART/HT: 1/1.

5  
000

1,400