

Décollement Consulting Inc.



Scale: 5" / 100'
Measured Depth Log

Well Name State Antelope 12-42-2HNB_Laterl

Location SW/NW Section 2, T5N - R62W

State CO

County Weld

Country USA

Rig Number Xtreme 22

API Number 05-123-41045

Field Wattenberg

Region D.J. Basin

Drilling Completed 8/11/2015

Spud Date 7/31/2015

Surface Coordinates 374 FWL x 1400 FNL (Lat: 40.432923, -104.298695)

Bottom Hole Coordinates 470 FEL x 1980 FNL (Lat: 40.431794, -104.282524)

Ground Elevation 4,646

K.B. Elevation 4,663

Logged Interval 6800 To 10850

Total Depth 10852

Formation Niobrara "B" Chalk

Type of Drilling Fluid Water Based Mud

Operator

Address Bonanza Creek Energy, Inc.
410 17th Street, Suite 1500
Denver, Colorado 80202

Geologist

Name Dan Kabala & Brian Spitzmiller

Company Decollement Consulting Inc.

Address 13300 Braun Rd.
Golden, CO. 80401

Zone Color Coding

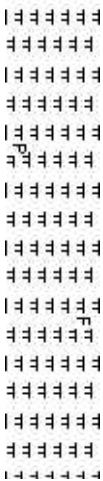
Oil
Note
Error

Condensate
Core
Water
Gas
Pressure
Seal

Rock Types

Blank

CEMENT



MPF



SHALE S

CHALK

LIMESTONE

SANDSTONE

SHALE SF



CPF MARLSTONE SHALE



Accessories

Fossils

- ALGAE
- AMPHIPORA
- BELEMNITE
- BIOCLASTIC
- BRACHIOPOD
- BRYOZOA
- CEPHALOPOD
- CORAL
- CRINOID
- ECHINOID
- FISH
- FORAMINIFERA

F FOSSIL

GASTROPOD

OOLITE

OSTRACOD

PELECYPOD

PELLET

PISOLITE

PLANT REMAINS

PLANT SPORES

SCAPHOPOD

STROMATOPOROID

Minerals

ANHYDRITIC

ARGILLACEOUS

ARGILLITE GRAIN

BENTONITE

BITUMENOUS SUBSTANCE

BRECCIA FRAGMENTS

CALCAREOUS

CARBONACEOUS FLAKES

CHTDK

CHTLT

COAL - THIN BEDS

DOLOMITIC

FELDSPAR

GLAUCONITE

GYPSIFEROUS

HEAVY MINERAL

KAOLIN

MARLSTONE

MINERAL CRYSTALS

NODULES

PHOSPHATE PELLETS

PYRITE

SALT CAST

SANDY

SILTY

Stringer

- ANHYDRITE STRINGER
- BENTONITE STRINGER
- COAL STRINGER
- DOLOMITE STRINGER
- GYPSUM STRINGER
- LIMESTONE STRINGER
- LIMESTONE (CALC) STRG
- MARLSTONE (DOL) STRG
- SANDSTONE STRINGER
- SHALE STRINGER
- SILTSTONE STRINGER

Oil

D DE

EV

QI

SP

Pol

E EA

FE

F FR

IN


IN

IM


Other Symbols

 ORGANIC  FORMATION TOP  L LITHOGRAPHIC

Show

 PINPOINT  GAS SHOW **Rounding**  MICROXLN

 VUGGY  MINDEPTH MN DEPTH  ANGULAR  MS MUDSTONE


 NORMAL FAULT  R ROUNDED  PS PACKSTONE

Engineering

 OIL SHOW  B SUBANG  WS WACKESTONE





 DOTTED STAINING  BIT  OVERTURNED STRATA  P SUBRND

Sorting




 CASING  REVERSE FAULT




osity Textures




 CONNECTION (LEFT)  SIDEWALL CORE (LEFT)  M MODERATE

 CONNECTION (RIGHT)  SIDEWALL CORE (RIGHT)  BS BOUNDSTONE  P POOR

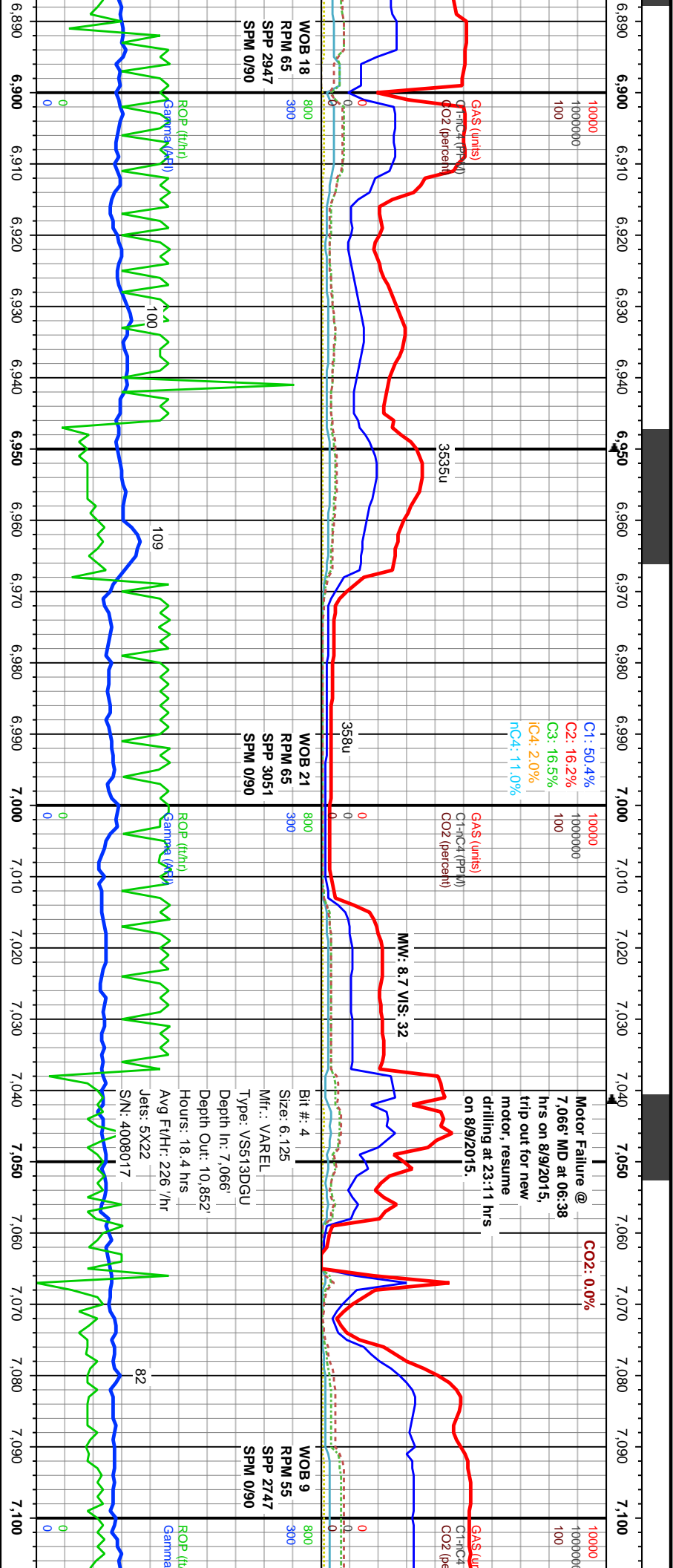
 CONNECTION GAS  SLIDE  C CHALKY  W WELL

 CORE - LOST  S SURVEY  CX CRYPTOXLN

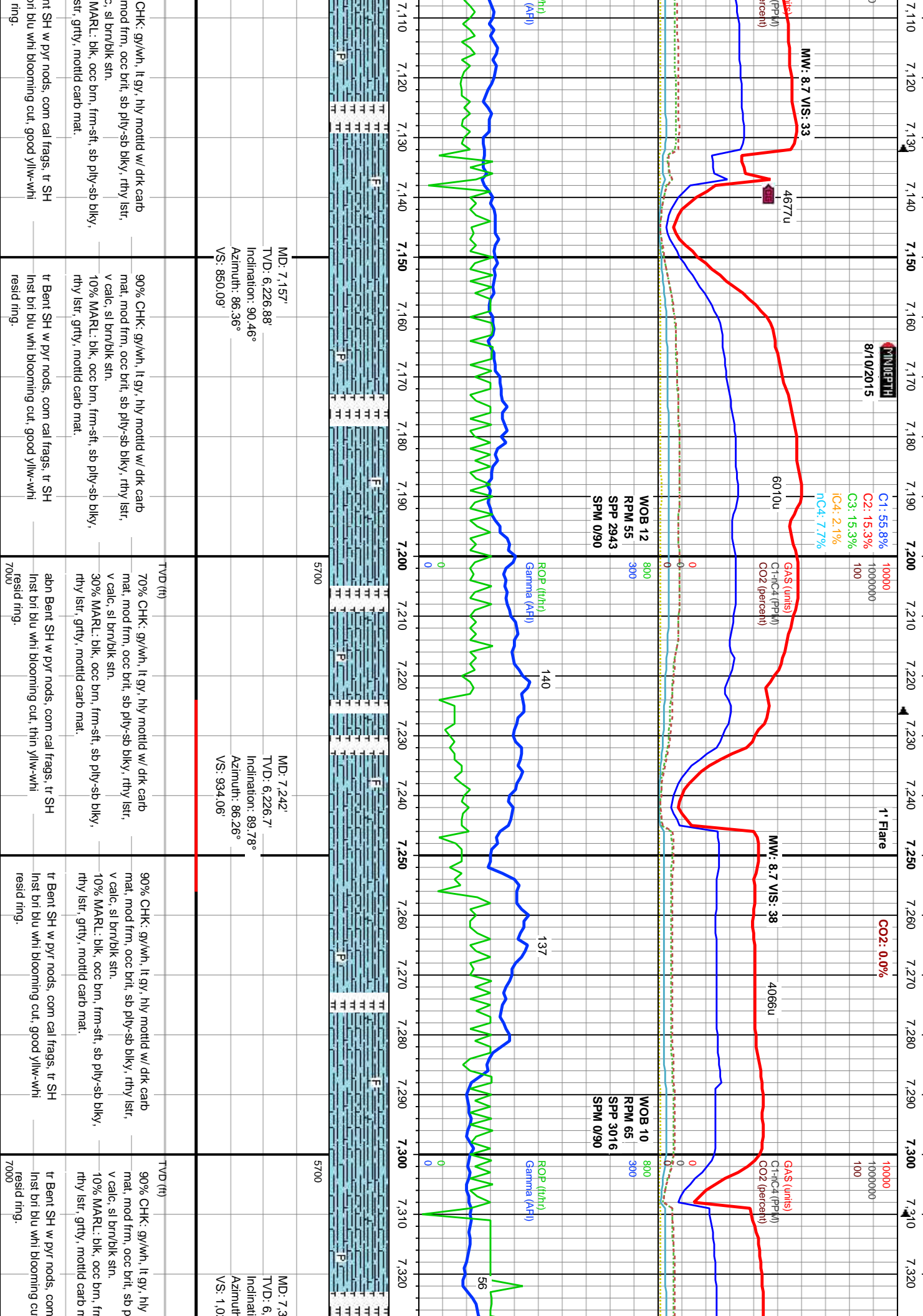
 CORE - RECOVERED  TRIP GAS  E EARTHY

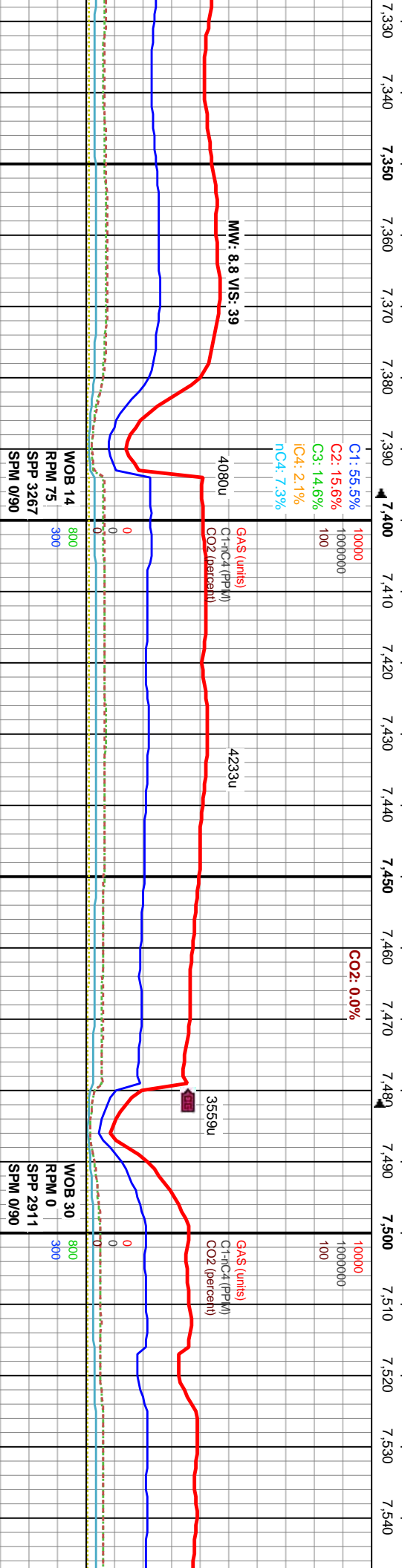
 DST INTERVAL  WIRELINE TESTED - LEFT  FX FINELYXLN

 FAULT  WIRELINE TESTED - RT  GS GRAINSTONE



MD: 6.974' TVD: 6.226.88' Inclination: 90.03° Azimuth: 86.63° VS: 669.27'		95% CHK: gy/wh, lt gy, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blk, rthy lstr, v calc, sl brn/bk str.	5% MARL: blk, occ brn, frm-sft, sb ply-sb blk, rthy lstr, grtty, mottld carb mat.	tr Bent SH w pyr nodes, com cal frags, tr SH Slw brl blu whi milky cut, thin yllw-whi resid ring.
MD: 7.064' TVD: 6.227.05' Inclination: 89.75° Azimuth: 86.25° VS: 758.21'		80% CHK: gy/wh, lt gy, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blk, rthy lstr, v calc, sl brn/bk str.	20% MARL: blk, occ brn, frm-sft, sb ply-sb blk, rthy lstr, grtty, mottld carb mat.	com cal frags, tr SH Inst brl blu whi milky cut, thin yllw-whi resid ring.
MD: 7.064' TVD: 6.227.05' Inclination: 89.75° Azimuth: 86.25° VS: 758.21'		90% mat, v calc, 10%	90% mat, v calc, 10%	tr Bent SH w pyr nodes, com cal frags, tr SH Inst brl blu whi milky cut, thin yllw-whi resid ring.





29'	2226.9'	MD: 7.415'	TVD: 6,226.07'	Inclination: 91.14°	Azimuth: 86.52°	VS: 1,105.04'
on: 89.96°	i: 86.54°					
20.03'		MD: 7.500'	TVD: 6,224.59'	Inclination: 90.86°	Azimuth: 87.35°	VS: 1,189.14'

monitld w/ drk carb ply-sb blkly, rthy lstr,	90% CHK: gy/wh, lt gy, hly motitld w/ drk carb mat, mod frm, occ brit, sb ply-sb blkly, rthy lstr, v calc, sl brn/blk stn. 10% MARL: blk, occ brn, frm-sft, sb ply-sb blkly, rthy lstr, grtty, motitld carb mat.	80% CHK: gy/wh, lt gy, hly motitld w/ drk carb mat, mod frm, occ brit, sb ply-sb blkly, rthy lstr, v calc, sl brn/blk stn. 20% MARL: blk, occ brn, frm-sft, sb ply-sb blkly, rthy lstr, grtty, motitld carb mat.	70% CHK: gy/wh, lt gy, hly motitld w/ drk carb mat, mod frm, occ brit, sb ply-sb blkly, rthy lstr, v calc, sl brn/blk stn. 30% MARL: blk, occ brn, frm-sft, sb ply-sb blkly, rthy lstr, grtty, motitld carb mat.	60% CHK: gy/wh, lt gy, hly motitld w/ drk carb mat, mod frm, occ brit, sb ply-sb blkly, rthy lstr, v calc, sl brn/blk stn. 40% MARL: blk, occ brn, frm-sft, sb ply-sb blkly, rthy lstr, grtty, motitld carb mat.
cal frags, tr SH l, good yllw-whi	tr Bent SH w pyr nodes, com cal frags, tr SH lnst brt blu whi blooming cut, good yllw-whi resid ring.	tr Bent SH w pyr nodes, com cal frags, tr SH lnst brt blu whi blooming cut, good yllw-whi resid ring.	tr Bent SH w pyr nodes, com cal frags, tr SH Fst brt blu whi blooming cut, good yllw-whi resid ring.	tr Bent SH w pyr nodes, com cal frags, tr SH lnst brt blu whi blooming cut, good yllw-whi 7resid ring.

7.550 7.560 7.570 7.580 7.590 7.600 7.610 7.620 7.630 7.640 7.650 7.660 7.670 7.680 7.690 7.700 7.710 7.720 7.730 7.740 7.750 7.760

C1: 64.0%
C2: 13.2%
C3: 11.8%
C4: 1.5%
nC4: 6.1%

10000
1000000
100

Gas (units)
C1+C4 (PPM)
CO2 (percent)

MW: 8.8 VIS: 40

4302u
4338u

3333u

5009u

4187u

WOB 35
RPM 0
SPP 2994
SPM 0/90

WOB 15
RPM 75
SPP 3401
SPM 0/90

ROP (t/hr)
Gamma (AFI)

RC₁₁₈ (t/hr)
Ga₁₁₈ (AFI)

134

84

5700

5700

MD: 7.671'
TVD: 6,226.01'
Inclination: 88.19°
Azimuth: 88.31°
VS: 1,358.69'

MD: 7.756'
TVD: 6,229.02'
Inclination: 87.75°
Azimuth: 88.43°
VS: 1,443.03'

60% CHK: gy/wh, lt gy, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blk, rthy lstr, v calc, sl brn/blk str.
40% MARL: blk, occ brn, frm-sft, sb ply-sb blk, rthy lstr, grrty, mottld carb mat.

80% CHK: gy/wh, lt gy, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blk, rthy lstr, v calc, sl brn/blk str.
20% MARL: blk, occ brn, frm-sft, sb ply-sb blk, rthy lstr, grrty, mottld carb mat.

90% CHK: gy/wh, lt gy, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blk, rthy lstr, v calc, sl brn/blk str.
10% MARL: blk, occ brn, frm-sft, sb ply-sb blk, rthy lstr, grrty, mottld carb mat.

80% CHK: gy/wh, lt gy, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blk, rthy lstr, v calc, sl brn/blk str.
20% MARL: blk, occ brn, frm-sft, sb ply-sb blk, rthy lstr, grrty, mottld carb mat.

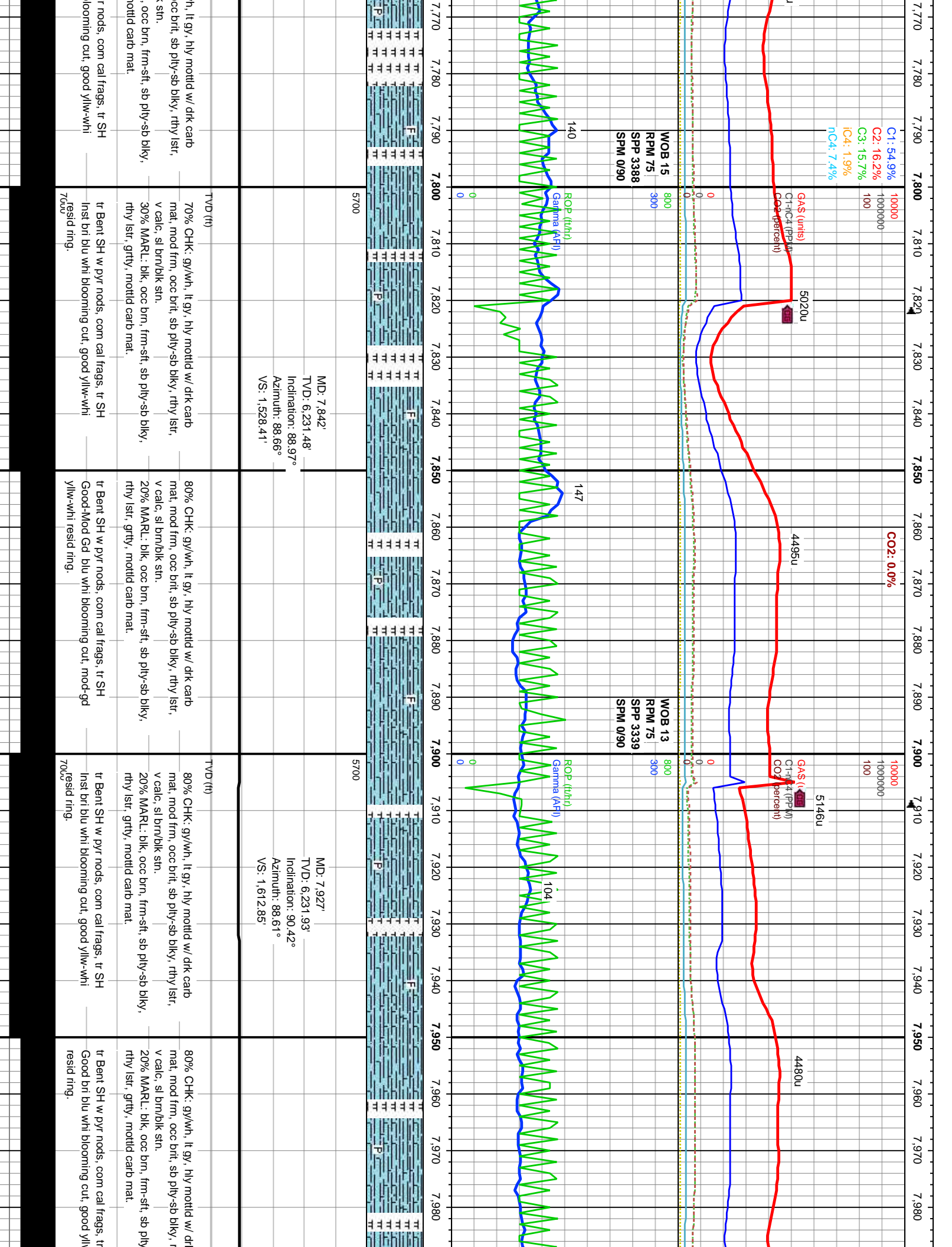
tr Bent SH w pyr nods, com cal frags, tr SH lstr bri blu whi blooming cut, good yllw-whi resid ring.

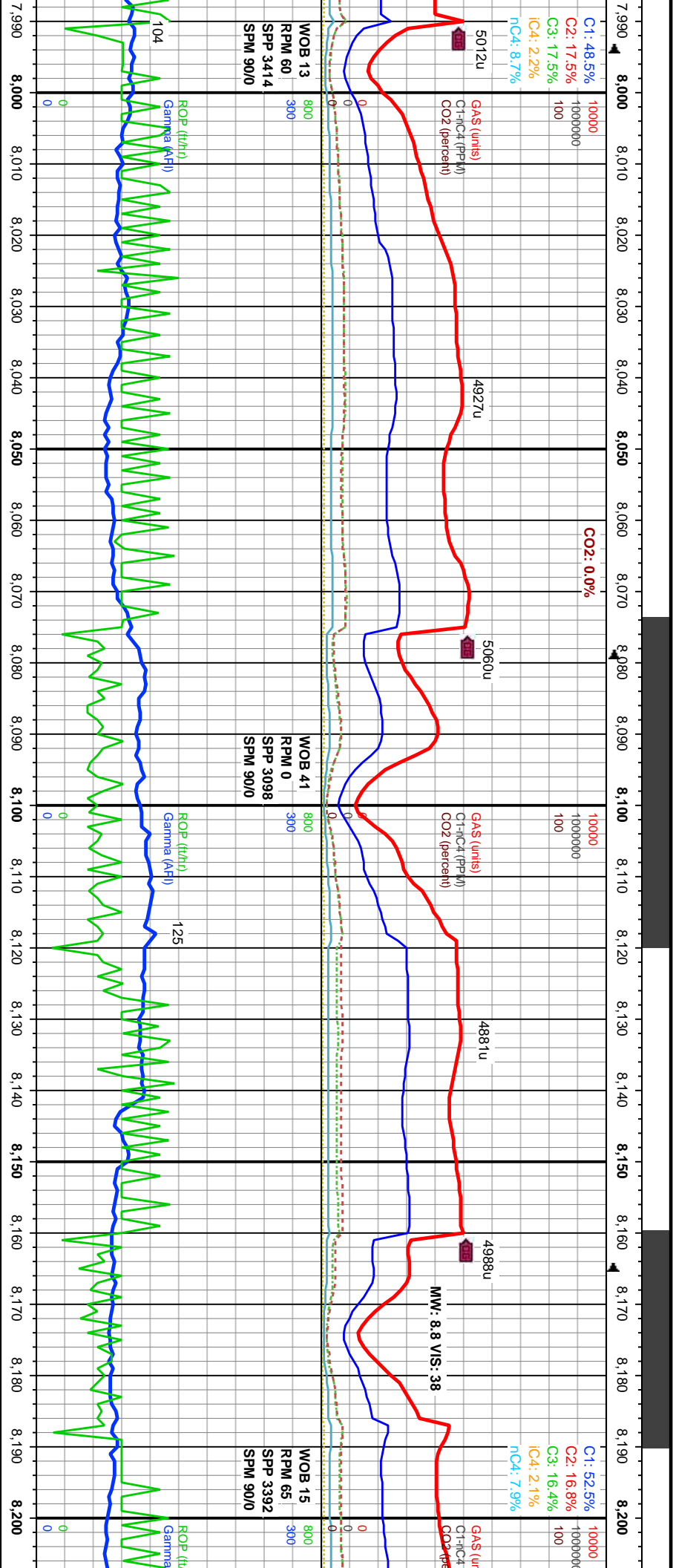
tr Bent SH w pyr nods, com cal frags, tr SH lstr bri blu whi blooming cut, good yllw-whi resid ring.

tr Bent SH w pyr nods, com cal frags, tr SH lstr bri blu whi blooming cut, good yllw-whi resid ring.

tr Bent SH w pyr nods, com cal frags, tr SH Good blu whi strng cut, good yllw-whi resid ring.

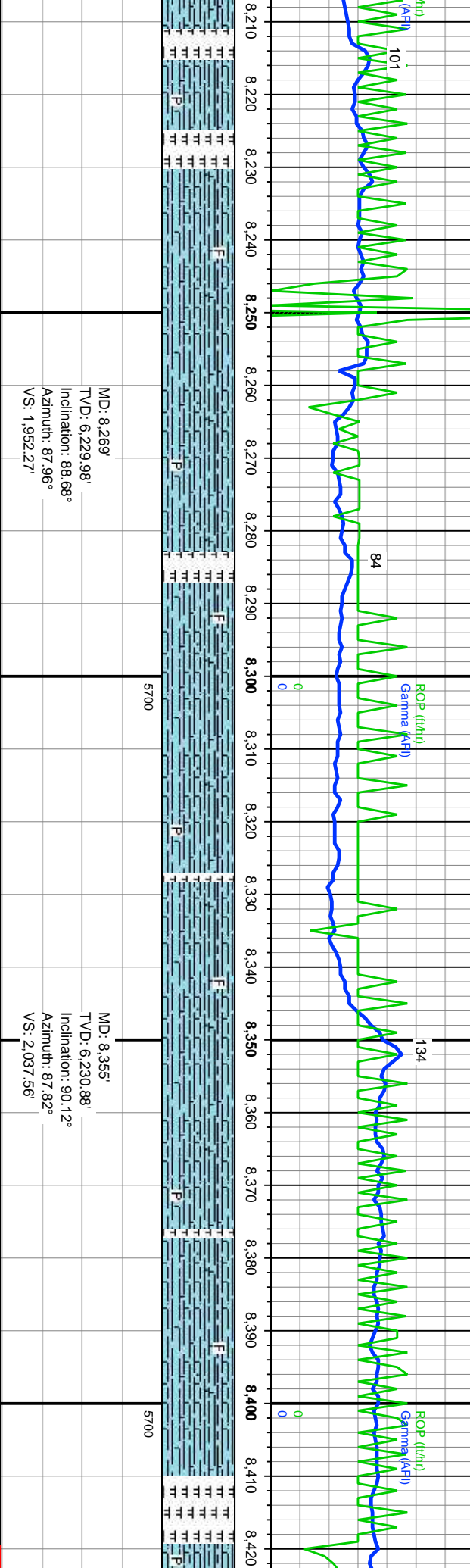
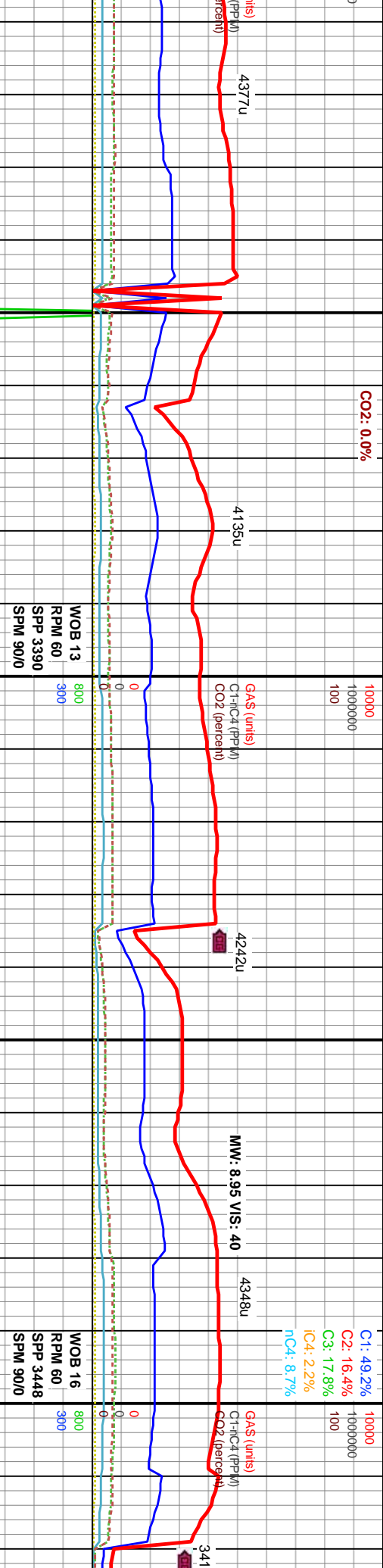
tr Bent SH w pyr Fst bri blu whi resid ring.





MD: 8.012' TVD: 6,230.25' Inclination: 91.85° Azimuth: 88.78° VS: 1,697.28'		MD: 8.098' TVD: 6,227.56' Inclination: 91.73° Azimuth: 88.69° VS: 1,782.69'		MD: 8.183' TVD: 6,227.63' Inclination: 88.18° Azimuth: 87.62° VS: 1,867.03'	
TVD (ft) 90% CHK: gy/wh, lt gy, hlv mottld w/ drk carb mat, mod frm, occ brlt, sb ply-sb blkly, rthy lstr, v calc, sl brn/blk sin. 10% MARL: blk, occ brn, frm-sft, sb ply-sb blkly, rthy lstr, gntly, mottld carb mat.		TVD (ft) 80% CHK: gy/wh, lt gy, hlv mottld w/ drk carb mat, mod frm, occ brlt, sb ply-sb blkly, rthy lstr, v calc, sl brn/blk sin. 20% MARL: blk, occ brn, frm-sft, sb ply-sb blkly, rthy lstr, gntly, mottld carb mat.		TVD (ft) 90% CHK: gy/wh, lt gy, hlv mottld w/ drk carb mat, mod frm, occ brlt, sb ply-sb blkly, rthy lstr, v calc, sl brn/blk sin. 10% MARL: blk, occ brn, frm-sft, sb ply-sb blkly, rthy lstr, gntly, mottld carb mat.	
tr Bent SH w pyr nods, com cal frags, tr SH lstr bri blu whi blooming cut, good yllw-whi resid ring.		tr Bent SH w pyr nods, com cal frags, tr SH lstr bri blu whi blooming cut, good yllw-whi resid ring.		tr Bent SH w pyr nods, com cal frags, tr SH lstr bri blu whi blooming cut, good yllw-whi resid ring.	

8.210 8.220 8.230 8.240 8.250 8.260 8.270 8.280 8.290 8.300 8.310 8.320 8.330 8.340 8.350 8.360 8.370 8.380 8.390 8.400 8.410 8.420



CHK: gy/wh, lt gy, hly mottd w/ dtk carb
mod frm, occ brt, sb ply-sb blk, rthy lstr,
c, sl brn/bk sn.
MARL: blk, occ brn, frm-sft, sb ply-sb blk,
str, grty, mottd carb mat.

90% CHK: gy/wh, lt gy, hly mottd w/ dtk carb
mat, mod frm, occ brt, sb ply-sb blk, rthy lstr,
v calc, sl brn/bk sn.
5% MARL: blk, occ brn, frm-sft, sb ply-sb blk,
rthy lstr, grty, mottd carb mat.

95% CHK: gy/wh, lt gy, hly mottd w/ dtk carb
mat, mod frm, occ brt, sb ply-sb blk, rthy lstr,
v calc, sl brn/bk sn.
5% MARL: blk, occ brn, frm-sft, sb ply-sb blk,
rthy lstr, grty, mottd carb mat.

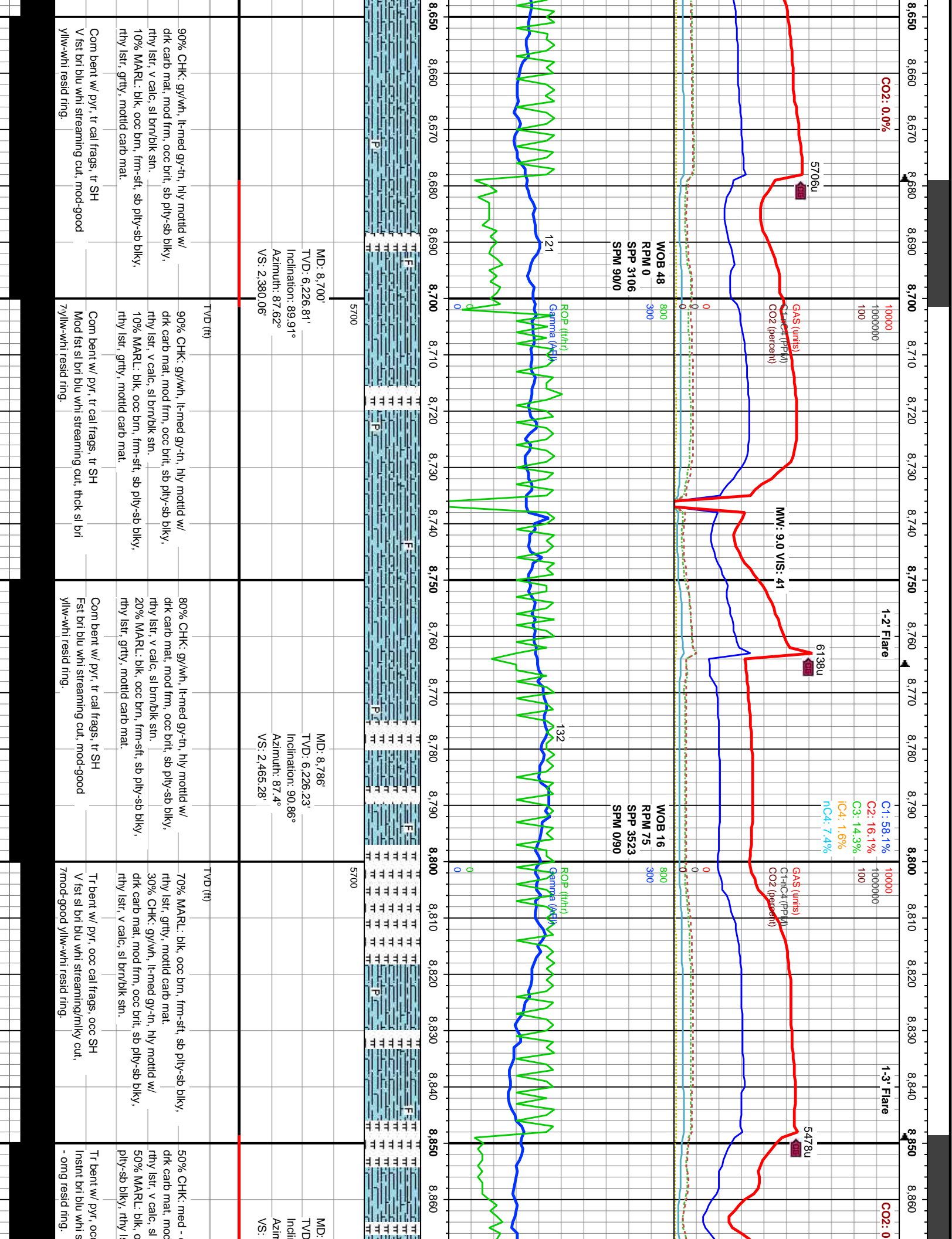
90% CHK: gy/wh, lt gy, hly mottd w/ dtk carb
mat, mod frm, occ brt, sb ply-sb blk, rthy lstr,
v calc, sl brn/bk sn.
10% MARL: blk, occ brn, frm-sft, sb ply-sb blk,
rthy lstr, grty, mottd carb mat.

tr Bent SH w pyr nodes, com cal frags, tr SH
Slw brn blu whl mky cut, thin yllw-whl resid ring.

tr Bent SH w pyr nodes, com cal frags, tr SH
Slw brn blu whl mky cut, thin yllw-whl resid ring.

tr Bent SH w pyr nodes, com cal frags, tr SH
Inst vry good blu whl mky cut, vry string
yllw-whl resid ring.

tr Bent SH w pyr nodes, com cal frags, tr SH
Slw brn blu whl streaming c
70yllw-whl resid ring.



8,870 8,880 8,890 8,900 8,910 8,920 8,930 8,940 8,950 8,960 8,970 8,980 8,990 9,000 9,010 9,020 9,030 9,040 9,050 9,060 9,070 9,080

CO2: 0.0%

10000
1000000
100

C1: 52.3%
C2: 16.4%
C3: 15.9%
iC4: 1.6%
nC4: 7.8%

GAS (units)
CH4 (ppm)
CO2 (percent)

5399u

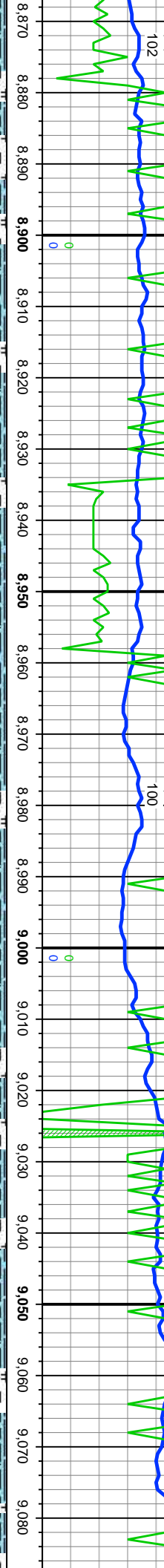
5106u

WOB 18
RPM 75
SPP 3551
SPM 900

WOB 22
RPM 75
SPP 3613
SPM 900

ROP (t/hr)
Gamma Ray

ROP (t/hr)
Gamma Ray



5700

5700

8,872'
: 6.225.24'
ation: 90.46°
uth: 87.51°
2.550.48'

MD: 9.044'
TVD: 6.225.29'
Inclination: 89.51°
MD: 9.040' 86.24°
TVD: 6.225.25'

TVD (ft)

TVD (ft)

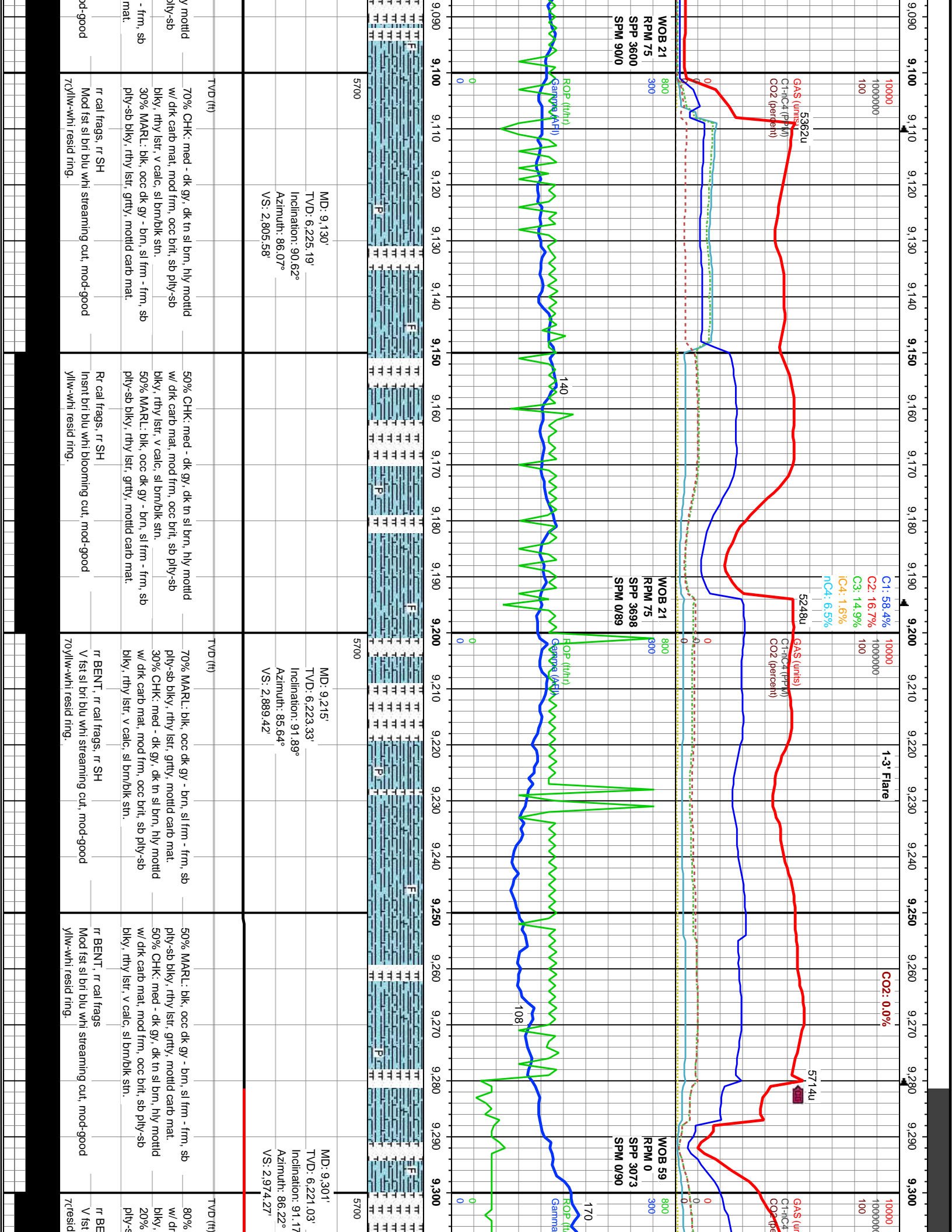
dk gy, tn sl brn, hly mottld w/
frm, occ brlt, sb ply-sb blkly,
bmr/bk stn.
occ dk gy - brn, frm-sft, sb
stf, grtty, mottld carb mat.
c cal frags, occ SH
streaming cut, mod-good yllw

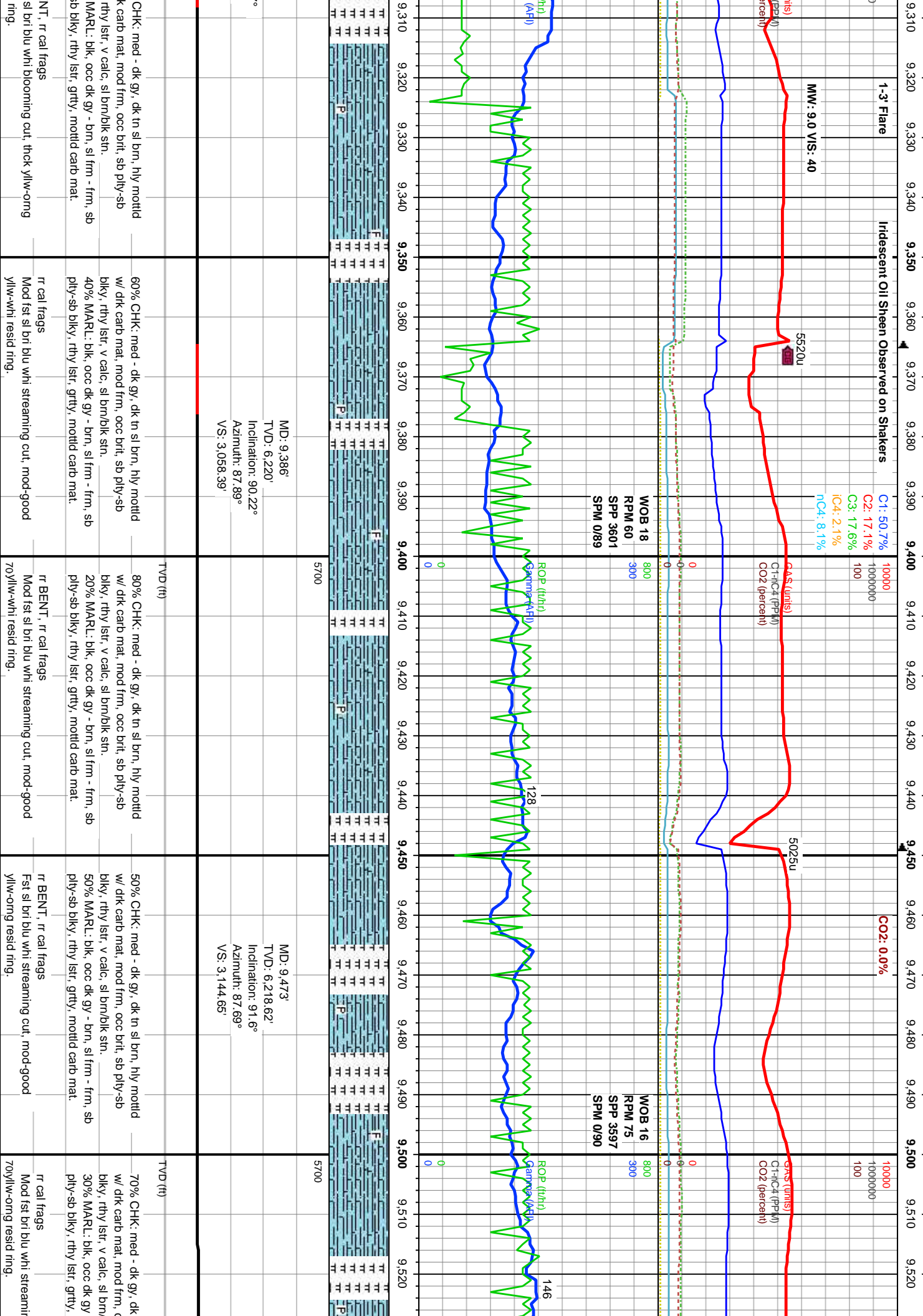
70% CHK: med - dk gy, tn sl brn, hly mottld w/
dk carb mat, mod frm, occ brlt, sb ply-sb blkly,
rthy lstr, v calc, sl brn/bk stn.
30% MARL: blk, occ dk gy - brn, frm-sft, sb
ply-sb blkly, rthy lstr, grtty, mottld carb mat.
Tr gy bent w/ pyr, occ cal frags, occ SH
Sl fst sl bri blu whi streaming cut, mod-good
70yllw-whi resid ring.

90% CHK: med - dk gy, tn sl brn, hly mottld w/
dk carb mat, mod frm, occ brlt, sb ply-sb blkly,
rthy lstr, v calc, sl brn/bk stn.
10% MARL: blk, occ dk gy - brn, frm-sft, sb
ply-sb blkly, rthy lstr, grtty, mottld carb mat.
Rr gy bent w/ pyr, rr cal frags, rr SH
V fst bri blu whi streaming rad cut, mod-good
yllw-whi resid ring.

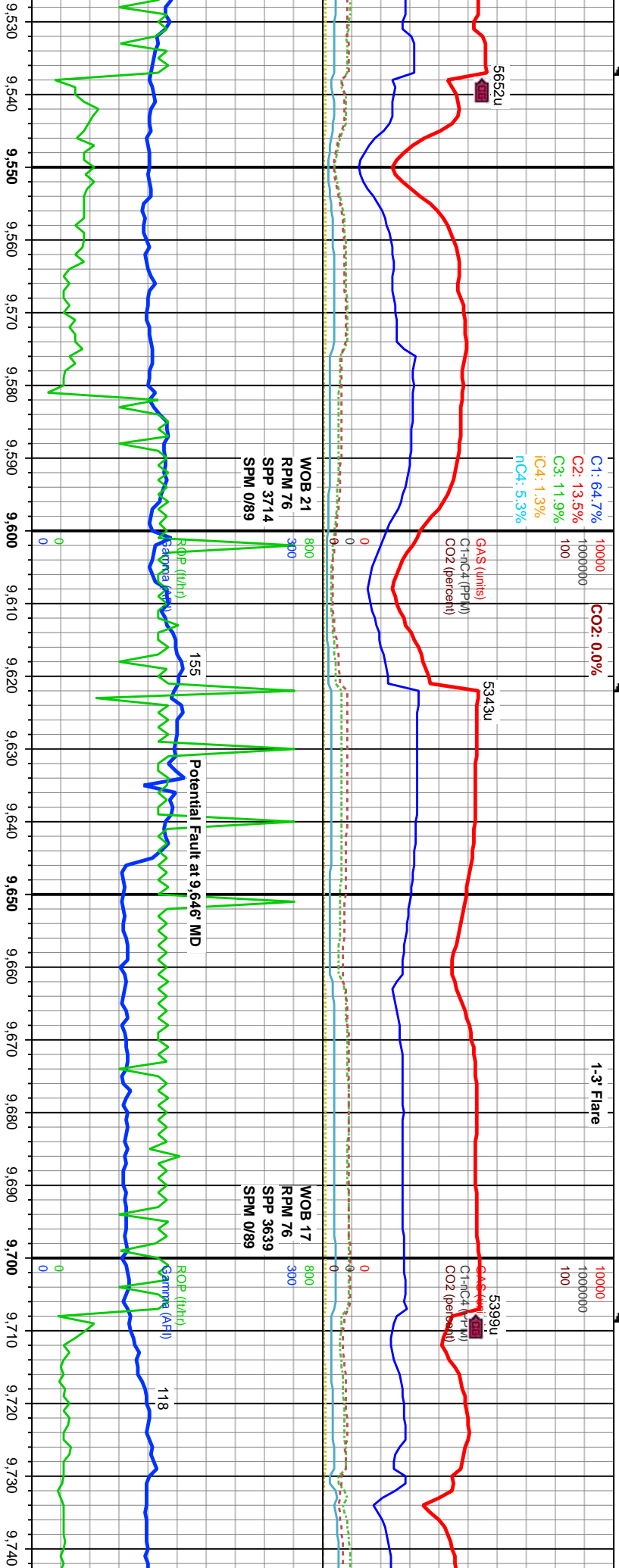
70% CHK: med - dk gy, dk tn sl brn, hly mottld
w/ dk carb mat, mod frm, occ brlt, sb ply-sb
blkly, rthy lstr, v calc, sl brn/bk stn.
30% MARL: blk, occ dk gy - brn, sl frm - frm, sb
ply-sb blkly, rthy lstr, grtty, mottld carb mat.
Rr gy bent w/ pyr, rr cal frags, rr SH
Mod fst sl bri blu whi streaming cut, mod-good
700yllw-whi resid ring.

60% CHK: med - dk gy, dk tn sl brn, hly mottld
w/ dk carb mat, mod frm, occ brlt, sb ply-sb
blkly, rthy lstr, v calc, sl brn/bk stn.
40% MARL: blk, occ dk gy - brn, sl frm
ply-sb blkly, rthy lstr, grtty, mottld carb
mat.
rr cal frags, rr SH
Mod fst sl bri blu whi streaming cut, mod
yllw-whi resid ring.





9.530 9.540 9.550 9.560 9.570 9.580 9.590 9.600 9.610 9.620 9.630 9.640 9.650 9.660 9.670 9.680 9.690 9.700 9.710 9.720 9.730 9.740



in sl brn, hly mottld w/ dk carb mat, mod frm, occ brt, sb ply-sb blk stn, - brn, sl frm - frm, sb mottld carb mat.	50% CHK: med - dk gy, dk tn sl brn, hly mottld w/ dk carb mat, mod frm, occ brt, sb ply-sb blk, rthy lstr, v calc, sl brn/blk stn, 50% MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blk, rthy lstr, grty, mottld carb mat.	TVD (ft)	MD: 9.559' TVD: 6.216.63' Inclination: 91.05° Azimuth: 87.56° VS: 3.229.87'	5700	80% CHK: med - dk gy, dk tn sl brn, hly mottld w/ dk carb mat, mod frm, occ brt, sb ply-sb blk, rthy lstr, v calc, sl brn/blk stn, 20% MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blk, rthy lstr, grty, mottld carb mat.	TVD (ft)	MD: 9.730' TVD: 6.214.18' Inclination: 90.52° Azimuth: 87.73° VS: 3.399.44'	5700
ing cut, mod-good	Fst sl bri blu whi streaming cut, mod-good yllw-oring resid ring.	rr cal frags	SI slw mod bri blu whi streaming cut, 70mod-good yllw-oring resid ring.	rr cal frags	V lstr sl bri blu whi streaming cut, mod-good yllw-oring resid ring.	rr cal frags	Insnt bri blu whi streaming cut, thick yllw-oring 70resid ring.	

9,750 9,760 9,770 9,780 9,790 9,800 9,810 9,820 9,830 9,840 9,850 9,860 9,870 9,880 9,890 9,900 9,910 9,920 9,930 9,940 9,950 9,960

1-2' Flare

MW: 9.1 VS: 41

C1: 57.1%
C2: 15.9%
C3: 14.0%
iC4: 1.7%
nC4: 7.1%

10000
1000000
100

GAS (units)
C1+IC4 (PPM)
CO2 (percent)

CO2: 0.0%

10000
1000000
100

GAS (units)
C1+IC4 (PPM)
CO2 (percent)

WOB 48
RPM 0
SPP 2954
SPM 90/0

WOB 23
RPM 60
SPP 3842
SPM 90/0

ROP (t/hr)
Gamma (AFI)

ROP (t/hr)
Gamma (AFI)

101

98

5700

5700

MD: 9.815'
TVD: 6,214.57'
Inclination: 88.95°
Azimuth: 89.65°
VS: 3,483.88

MD: 9.900'
TVD: 6,215.38'
Inclination: 89.96°
Azimuth: 89.37°
VS: 3,568.45

TVD (ft)

TVD (ft)

95% CHK: med - dk gy, dk tn sl brn, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blkly, rthy lstr, v calc, sl brn/bk stn.
5% MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blkly, rthy lstr, grtty, mottld carb mat.

90% CHK: med - dk gy, dk tn sl brn, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blkly, rthy lstr, v calc, sl brn/bk stn.
10% MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blkly, rthy lstr, grtty, mottld carb mat.

80% CHK: med - dk gy, dk tn sl brn, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blkly, rthy lstr, v calc, sl brn/bk stn.
20% MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blkly, rthy lstr, grtty, mottld carb mat.

80% CHK: med - dk gy, dk tn sl brn, hly mottld w/ drk carb mat, mod frm, occ brit, sb ply-sb blkly, rthy lstr, v calc, sl brn/bk stn.
40% MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blkly, rthy lstr, grtty, mottld carb mat.

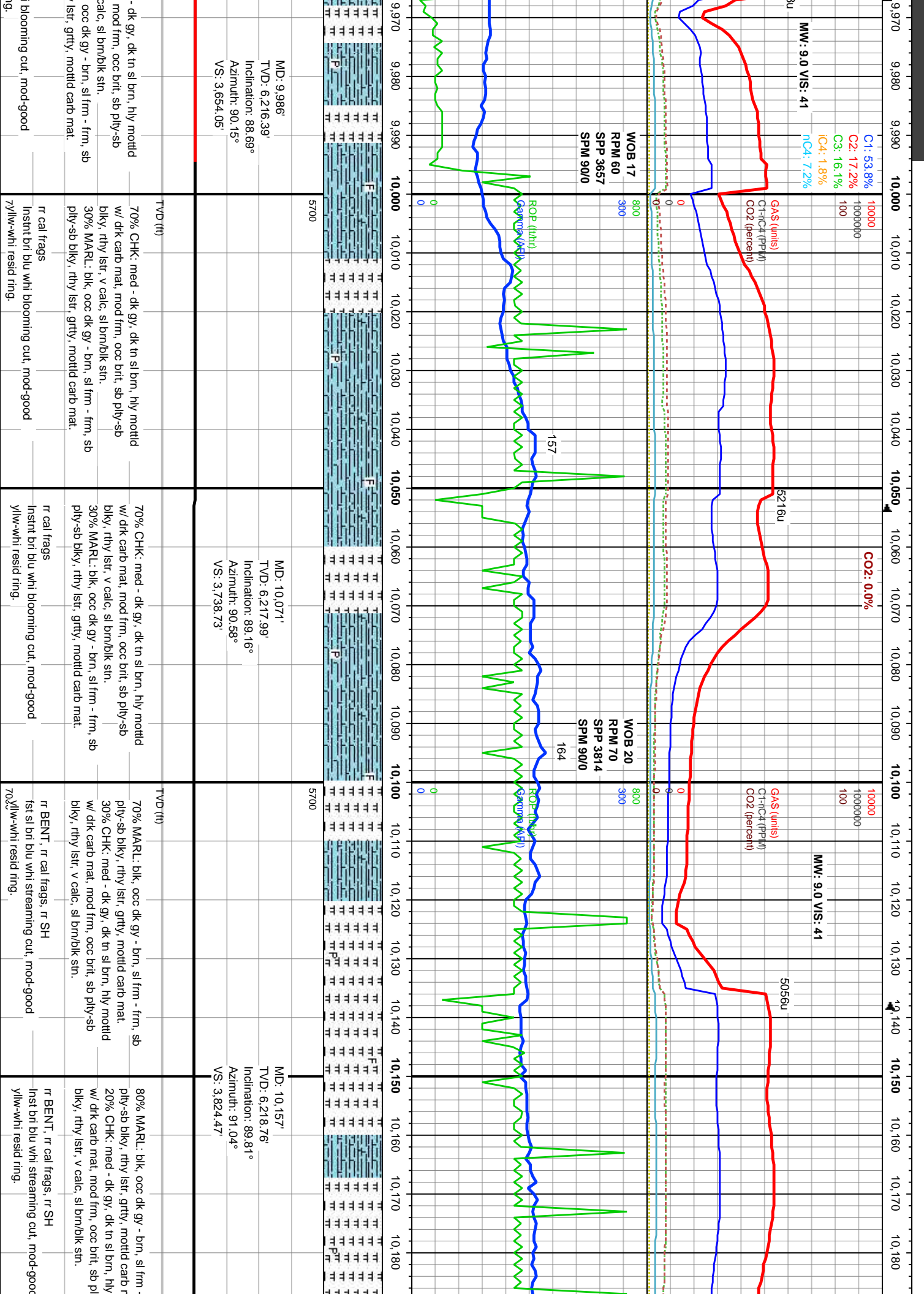
rr BENT, rr cal frags
V fst mod bri blu whi streaming cut, mod-good yllw-ong resid ring.

rr BENT, rr cal frags
Mod fst sl bri blu whi streaming cut, sl thick zoyllw-whi resid ring.

rr BENT, rr cal frags
Mod fst sl bri blu whi streaming cut, sl thick yllw-whi resid ring.

rr BENT, rr cal frags
Mod fst sl bri blu whi streaming cut, mod-good yllw-whi resid ring.

rr cal frags
Instnt bri blu whi streaming cut, mod-good yllw-whi resid ring.



10,410 10,420 10,430 10,440 10,450 10,460 10,470 10,480 10,490 10,500 10,510 10,520 10,530 10,540 10,550 10,560 10,570 10,580 10,590 10,600 10,610 10,620

DATE: 8/11/2015

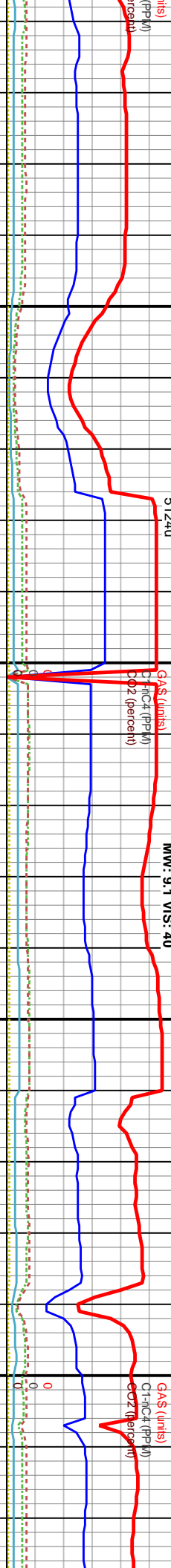
CO2: 0.0%

10000
1000000
100

C1: 60.6%
C2: 15.5%
C3: 12.7%
iC4: 1.4%
nC4: 5.7%

MW: 9.1 VIS: 40

GAS (units)
C1-C4 (PPM)
CO2 (percent)



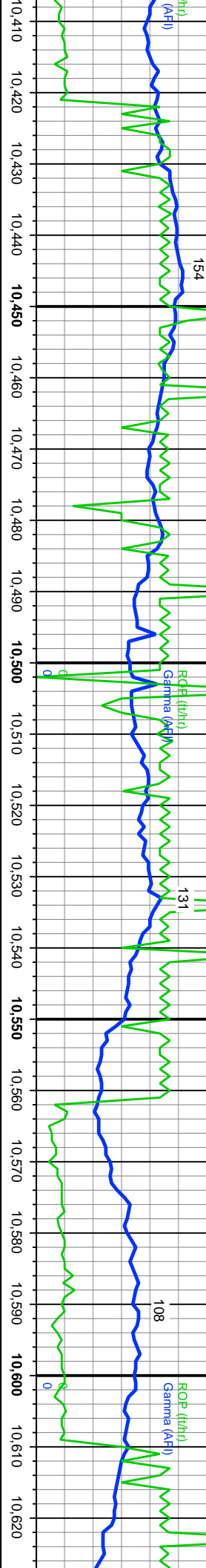
WOB 22
RPM 65
SPM 3870
SPM 900

WOB 60
RPM 4
SPM 3117
SPM 900

154

131

108



5700

5700

MD: 10,413'
TVD: 6,214.32'
Inclination: 91.04°
Azimuth: 88.26°
VS: 4,078.87'

MD: 10,498'
TVD: 6,212.2'
Inclination: 91.82°
Azimuth: 87.96°
VS: 4,163.19'

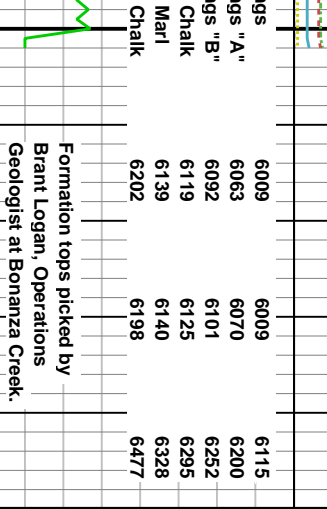
MD: 10,584'
TVD: 6,209.95'
Inclination: 91.18°
Azimuth: 88.25°
VS: 4,248.5'

10,410 - 10,450	10,450 - 10,500	10,500 - 10,550	10,550 - 10,600	10,600 - 10,620
CHK: med - dk gy, dk tn sl brn, hly mottld k carb mat, mod frm, occ brlt, sb ply-sb rthy lstr, v calc, sl brn/bk sin. MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blk, rthy lstr, gttty, mottld carb mat.	90% CHK: med - dk gy, dk tn sl brn, hly mottld w/ dk carb mat, mod frm, occ brlt, sb ply-sb blk, rthy lstr, v calc, sl brn/bk sin. 10% MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blk, rthy lstr, gttty, mottld carb mat.	95% CHK: med - dk gy, dk tn sl brn, hly mottld w/ dk carb mat, mod frm, occ brlt, sb ply-sb blk, rthy lstr, v calc, sl brn/bk sin. 5% MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blk, rthy lstr, gttty, mottld carb mat.	70% CHK: med - dk gy, dk tn sl brn, hly mottld w/ dk carb mat, mod frm, occ brlt, sb ply-sb blk, rthy lstr, v calc, sl brn/bk sin. 30% MARL: blk, occ dk gy - brn, sl frm - frm, sb ply-sb blk, rthy lstr, gttty, mottld carb mat.	90% CHK: med - dk gy, dk w/ dk carb mat, mod frm, c blk, rthy lstr, v calc, sl brn/ 10% MARL: blk, occ dk gy ply-sb blk, rthy lstr, gttty,
frags -fst blu whi blooming cut, mod-good whi resid ring.	tr cal frags Inst bri blu whi blooming cut, mod-good yllw-whi resid ring.	Abn calc frag, tr SH Inst bri blu whi blooming cut, mod-good 70% yllw-whi resid ring.	tr cal frags, abn SH, tr Bent SH w Pyr nod. Inst bri blu whi blooming cut, vry-good yllw-whi resid ring.	tr cal frags, abn SH Inst bri blu whi blooming cu 70% yllw-whi resid ring.

10,850 10,860 10,870 10,880 10,890 10,900

Reached DMTD @ 10,852' 0247hrs,
on 08/11/2015, wiper trip 15 stands,
pump high viscosity sweeps,
condition hole.

Decollement Consulting Inc Thanks you.



10,850 10,860 10,870 10,880 10,890 10,900

Section to Bit

10,852' : 10,852'
6,203.97' : 6,203.97'
Inclination: 91.6°
Dip: 88.34°
4,514.66'