

Décollement Consulting Inc.



Scale: 5" / 100'

Measured Depth Log

Well Name State Antelope B-V-2HNB_Lateral

Location SW/NW Section 2, T5N - R62W

State CO

County Weld

Country USA

Rig Number Xtreme 22

API Number 05-123-41047

Field Wattenberg

Region D.J. Basin

Drilling Completed 8/17/2015

Spud Date 7/27/2015

Surface Coordinates 334 FWL x 1398 FNL (Lat: 40.432925, -104.298839)

Bottom Hole Coordinates 470 FEL x 1320 FNL (Lat: 40.433606, -104.282551)

Ground Elevation 4,644'

K.B. Elevation 4,661'

Logged Interval 6,600 To 10850

Total Depth 10,856

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

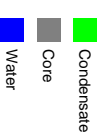
Name Dan Kabala & Brian Spitzmiller

Company Decollement Consulting Inc.

Address 13300 Braun Rd.

Golden, CO. 80401

Zone Color Coding



Rock Types

Blank



CHALK

CEMENT



LIMESTONE



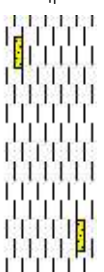
SANDSTONE



CPF MARLSTONE SHALE



MPF



SHALE S



SHALE SF



Fossils

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

Accessories

- F FOSSIL
- GASTROPOD
- OOLITE
- OSTRACOD
- PELECYPOD
- PELLET
- PISOLITE
- PLANT REMAINS
- PLANT SPORES
- SCAPHOPOD
- STROMATOPOROID
- ARGILLACEOUS
- ARGILLITE GRAIN
- B BENTONITE
- BITUMENOUS SUBSTANCE
- BRECCIA FRAGMENTS
- CALCAREOUS
- CARBONACEOUS FLAKES
- CHTDK
- CHTLT
- COAL - THIN BEDS
- DOLOMITIC
- FELDSPAR
- FERRUGINOUS PELLET
- FERRUGINOUS
- GLAUCONITE
- GYPSIFEROUS
- HEAVY MINERAL
- KAOLIN
- MARLSTONE
- MINERAL CRYSTALS
- NODULES
- PHOSPHATE PELLETS
- PYRITE
- SALT CAST
- SANDY
- SILICEOUS
- SILTY
- TUFFACEOUS

Stringer

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

Other Symbols

ORGANIC

FORMATION TOP

LITHOGRAPHIC

Show

Rounding

PINPOINT

GAS SHOW

MICROXLN

LEAD

VUGGY

MN DEPTH

ANGULAR

MUDSTONE

VEN

NORMAL FAULT

ROUNDED

PACKSTONE

QUESTIONABLE

Engineering

OIL SHOW

SUBANG

WACKESTONE

SPOTTED STAINING

BIT

OVERTURNED STRATA

SUBRND

Sorting

CASING

REVERSE FAULT

Textures

CONNECTION (LEFT)

SIDEWALL CORE (LEFT)

M MODERATE

EARTHY

CONNECTION (RIGHT)

SIDEWALL CORE (RIGHT)

B3 BOUNDSTONE

P POOR

ENESTRAL

CONNECTION GAS

SLIDE

CHALKY

W WELL

RACTURE

CORE - LOST

SURVEY

CRYPTOXLN

INTERCRYSTALLINE

CORE - RECOVERED

TRIP GAS

E EARTHY

INTEROOLITIC

DST INTERVAL

WIRELINE TESTED - LEFT

FX FINELYXLN

OLDIC

FAULT

WIRELINE TESTED - RT

GRAINSTONE

Slide/Rotate

Depth

6,560 6,570 6,580 6,590 6,600 6,610 6,620 6,630 6,640 6,650 6,660 6,670 6,680 6,690 6,700 6,710 6,720 6,730

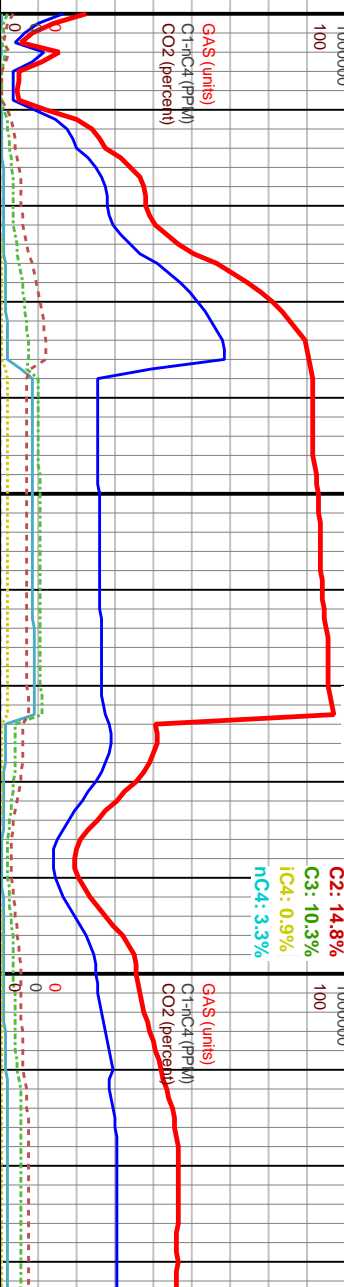
Total Gas & Chromatography

GAS
C1
C2
C3
iC4
nC4
CO2

Black = Slide
White = Rotate

Total Gas Calibration
1% Methane = 100u

Gas Chromatograph Calibration
C1 = 1.0% Methane = 10,000ppm
C2 = 1.0% Ethane = 10,000ppm
C3 = 1.0% Propane = 10,000ppm
iC4 = 1.0% Iso-Butane = 10,000ppm
nC4 = 1.0% N-Butane = 10,000ppm

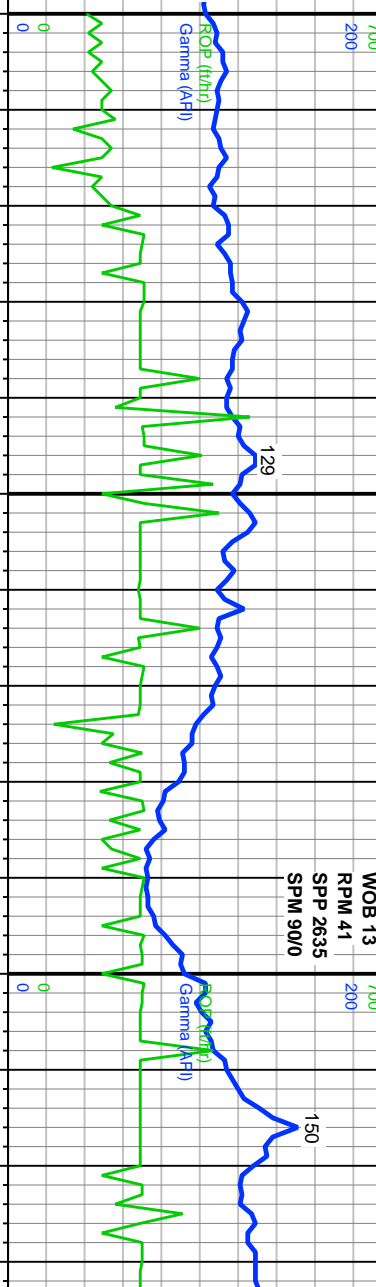


Curves
ROP
Gamma

Decollement Consulting
on location and rigged up
on 8/15/2015.

Start logging at 6,600' on
8/15/2015 at 19:13 hours.

Bit #: 3
Size: 6.125
Mfr.: VAREL
Type: VS513DGU
Depth In: 6,552'
Depth Out: 10,856'
Hours: 18.1 hrs
Avg FV/Hr: 238 ' /hr
Jets: 5X22
S/N: 4008149



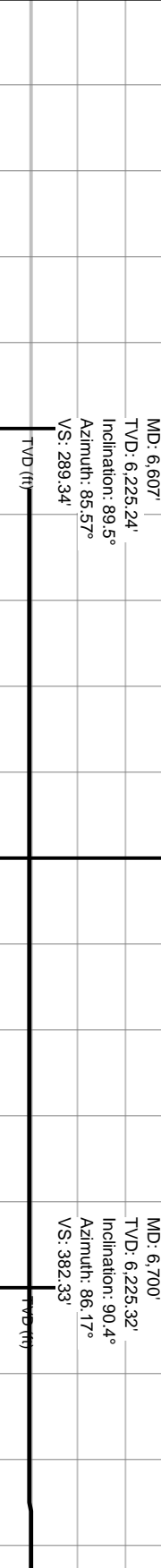
Depth Labels

6,560 6,570 6,580 6,590 6,600 6,610 6,620 6,630 6,640 6,650 6,660 6,670 6,680 6,690 6,700 6,710 6,720 6,730

Interpretive Lithology



Well Bore
TVD



90% MARL: dk brn, frm-sft, sb ply-sb blk, rthy
lsfr, grtty, abn mottd carb mat.
10% CHK: gy/wh, lt gy, mod frm, occ brt, sb
ply-sb blk, rthy lsfr, v calc, sl brn/blk sin.

95% MARL: dk brn, frm-sft, sb ply-sb blk, rthy
lsfr, grtty, abn mottd carb mat.
5% CHK: gy/wh, lt gy, mod frm, occ brt, sb
ply-sb blk, rthy lsfr, v calc, sl brn/blk sin.

70% MARL: dk brn, frm-sft, sb ply-sb b
lsfr, grtty, abn mottd carb mat.
30% CHK: gy/wh, lt gy, mod frm, occ brt, sb
ply-sb blk, rthy lsfr, v calc, sl brn/blk stn.

Tr Bent SH w pyr nods, tr SH
Vry fst blue whi blooming cut, good blue whi
resid ring.

Abn calc frag, tr BENT w/ pyr, tr SH
Inst bri blue whi blooming cut, good blue whi
resid ring.

Abn calc frag, tr BENT, tr SH
Inst bri blue whi blooming cut, good blue whi
resid ring.

Vry fst blue whi blooming cut, good blue whi
resid ring.

Oil Show

TR
P
FR
G
E

6,960 6,970 6,980 6,990 7,000 7,010 7,020 7,030 7,040 7,050 7,060 7,070 7,080 7,090 7,100 7,110 7,120 7,130 7,140 7,150 7,160 7,170

CO2: 0.0%

100000
1000000
100

C1: 53.4%
C2: 16.2%
C3: 15.5%
iC4: 1.7%
nC4: 8.1%

CO2: 0.0%

GAS (units)
C1-iC4 (PPM)
CO2 (percent)

3838u

GAS (units)
C1-iC4 (PPM)
CO2 (percent)

6933u

MW: 9.0 VIS 37

WOB 11
RPM 76
SPM 2761
SPM 900

WOB 9
RPM 75
SPM 2745
SPM 900

BOE (MMBtu)

BOE (MMBtu)

0

0

124

134

6150

6150

MD: 6.975'
TVD: 6,223.95'
Inclination: 89.04°
Azimuth: 88.37°
VS: 667.28'

MD: 7.067'
TVD: 6,225'
Inclination: 89.66°
Azimuth: 89.01°
VS: 749.23'

MD: 7.159'
TVD: 6,225.05'
Inclination: 90.27°
Azimuth: 89.37°
VS: 841.15'

TVD (m)

TVD (m)

CHK: gy/wh, lt gy, mod frm, occ brt, sb ply-sb
all rthy lstr, v calc.

MARL: dk brn, vry dk brwn/bk lp, frm-sft, sb
ply-sb blkly, rthy lstr, grfly, abndt motild carb mat.

SH w pyr nodes, rr cal xls
slw whi string cut, good yllw-oring resid ring.

70% CHK: gy/wh, lt gy, mod frm, occ brt, sb ply-sb
blkly, dull rthy lstr, v calc.
30% MARL: dk brn, vry dk brwn/bk lp, frm-sft, sb
ply-sb blkly, rthy lstr, grfly, abndt motild carb mat.

80% CHK: gy/wh, lt gy, mod frm, occ brt, sb ply-sb
blkly, dull rthy lstr, v calc.
20% MARL: dk brn, vry dk brwn/bk lp, frm-sft, sb
ply-sb blkly, rthy lstr, grfly, abndt motild carb mat.

Rt Bent SH w pyr nodes, rr cal xls, rr SH
slw blue whi string cut, good yllw-oring resid ring.

70% CHK: gy/wh, lt gy, mod frm, occ brt, sb
ply-sb blkly, dull rthy lstr, v calc.
30% MARL: dk brn, vry dk brwn/bk lp, frm-sft, sb
ply-sb blkly, rthy lstr, grfly, abndt motild carb mat.

70% CHK: gy/wh, lt gy, mod frm, occ brt, sb
ply-sb blkly, rthy lstr, grfly, abndt motild carb mat.

Rt Bent SH w pyr nodes, rr cal xls, rr SH
Mod slw blue whi string cut, good yllw-oring resid ring.

60% CHK: gy/wh, lt gy, mod frm, occ brt, sb
blkly, dull rthy lstr, v calc.
40% MARL: dk brn, vry dk brwn/bk lp, frm-sft, sb
ply-sb blkly, rthy lstr, grfly, abndt motild carb mat.

60% CHK: gy/wh, lt gy, mod frm, occ brt, sb
blkly, dull rthy lstr, v calc.

Rt Bent SH w pyr nodes, rr cal xls, rr SH
V slw blue whi string cut, good yllw-oring resid ring.

1' Flare

8/16/2015 10:000
100

CO2: 0.0%

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

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

C1: 64.2%
C2: 15.2%
C3: 11.7%
iC4: 1.2%
nC4: 4.7%

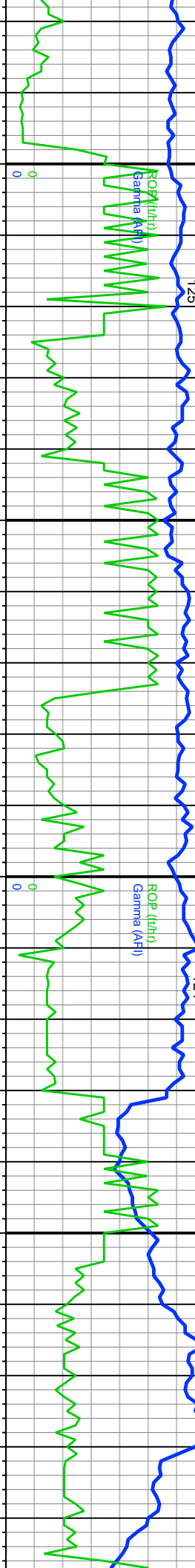
3700u
MW: 9.0 VIS 38

7330u

WOB 11
RPM 75
SPM 2693
SPM 900

WOB 16
RPM 75
SPM 3038
SPM 900

WOB 13
RPM 75
SPM 314
SPM 90



ROP (t/hr)
Barium (AFI)

ROP (t/hr)
Gamma (AFI)

6150

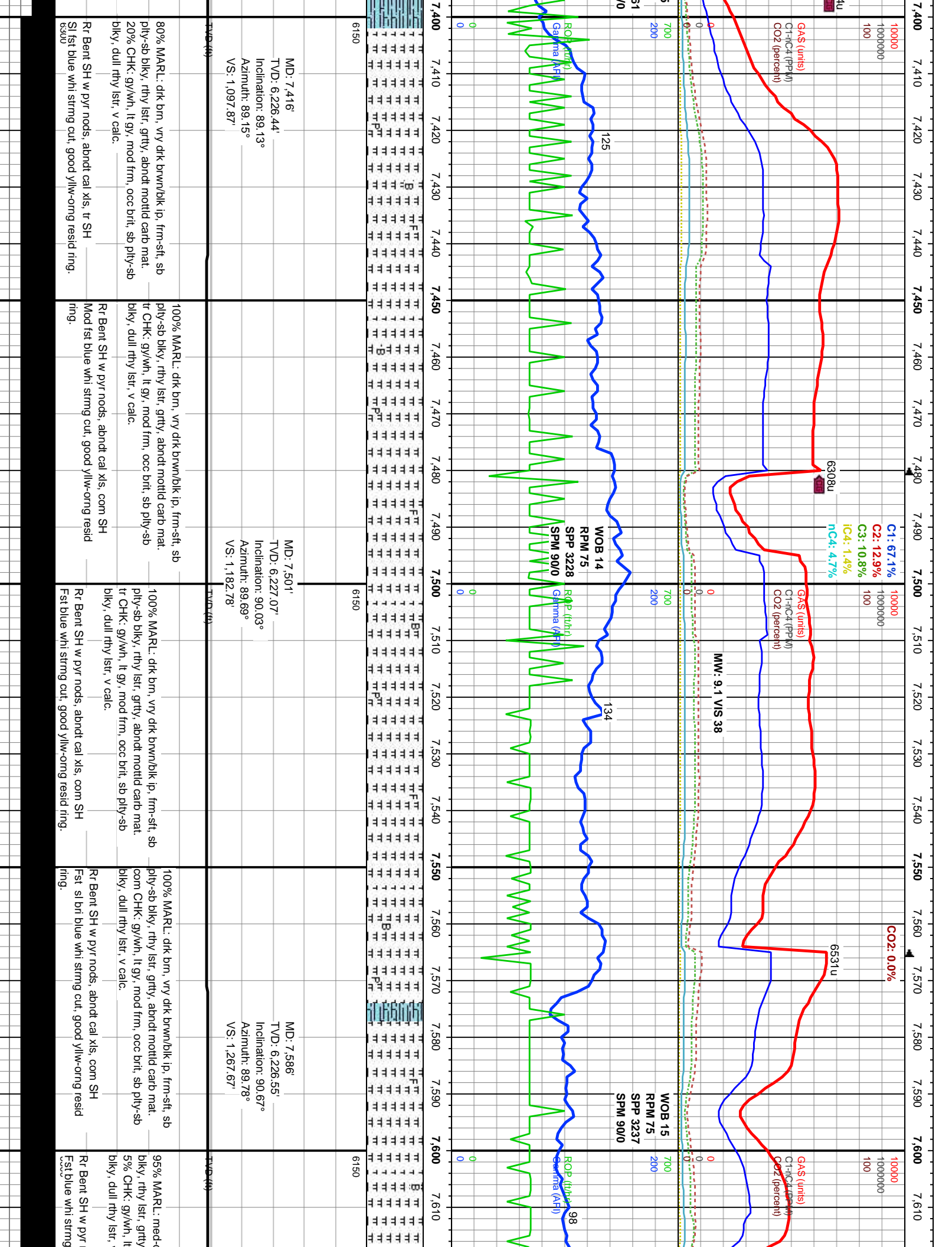
6150

6150

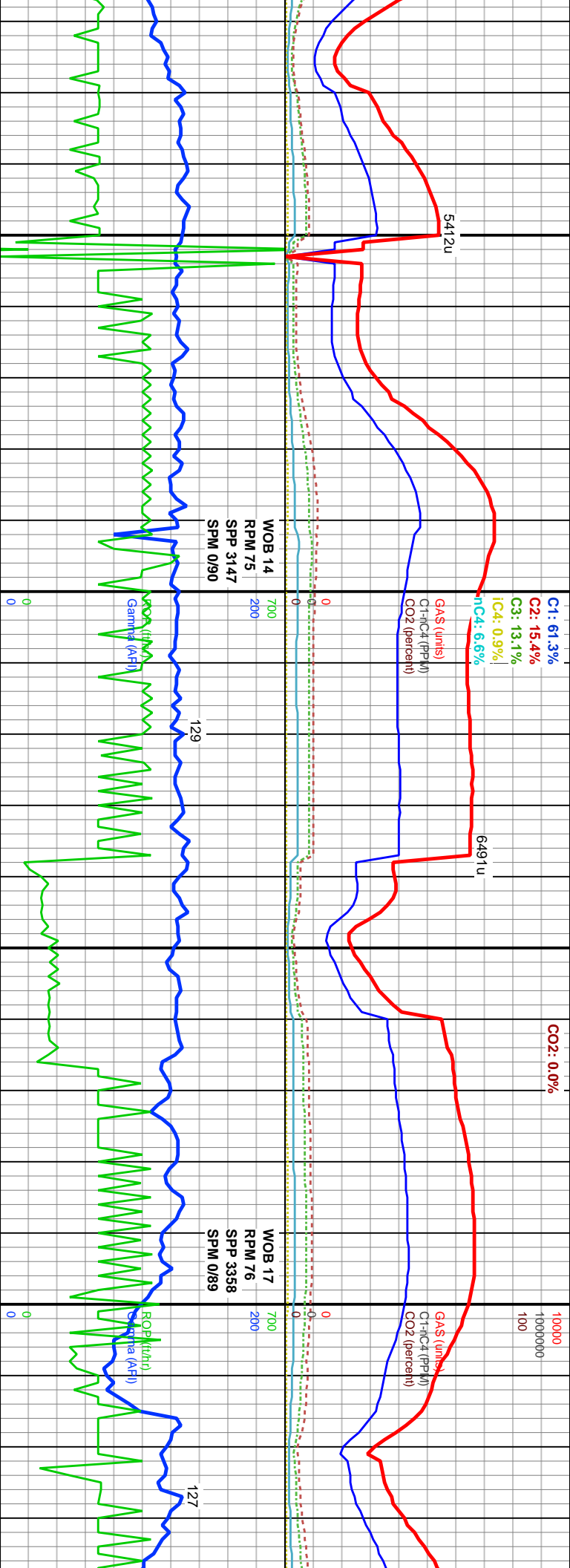
MD: 7.245'
TVD: 6,224.65'
Inclination: 90.27°
Azimuth: 89.75°
VS: 927.06'

MD: 7.330'
TVD: 6,225.11'
Inclination: 89.1°
Azimuth: 89.48°
VS: 1,011.95'

occ brtl, sb ply-sb
ply-sb blk, rthy lst, gitty, abndt motild carb mat.
20% CHK: gy/wth, lt gy, mod frm, occ brtl, sb ply-sb
blk, dull rthy lst, v calc.
80% MARL: dk brn, vry dtk brwn/bk ip, frm-sft, sb
ply-sb blk, rthy lst, gitty, abndt motild carb mat.
20% CHK: gy/wth, lt gy, mod frm, occ brtl, sb ply-sb
blk, dull rthy lst, v calc.
100% MARL: dk brn, vry dtk brwn/bk ip, frm-sft, sb
ply-sb blk, rthy lst, gitty, abndt motild carb mat.
tr CHK: gy/wth, lt gy, mod frm, occ brtl, sb ply-sb
blk, dull rthy lst, v calc.
100% MARL: dk brn, vry dtk brwn/bk ip, frm-sft, sb
ply-sb blk, rthy lst, gitty, abndt motild carb mat.
10% CHK: gy/wth, lt gy, mod frm, occ brtl, sb ply-sb
blk, dull rthy lst, v calc.
90% MARL: dk brn, vry dtk brwn/bk ip, frm-sft, sb
ply-sb blk, rthy lst, gitty, abndt motild carb mat.
10% CHK: gy/wth, lt gy, mod frm, occ brtl, sb ply-sb
blk, dull rthy lst, v calc.
Rt Bent SH w pyr nodes, com cal xls, rr SH
V slw blue whi string cut, good yllw-oring resid ring.
Rt Bent SH w pyr nodes, com cal xls, rr SH
V slw blue whi string cut, good yllw-oring resid ring.
Rt Bent SH w pyr nodes, com cal xls, rr SH
V slw blue whi string cut, good yllw-oring resid ring.

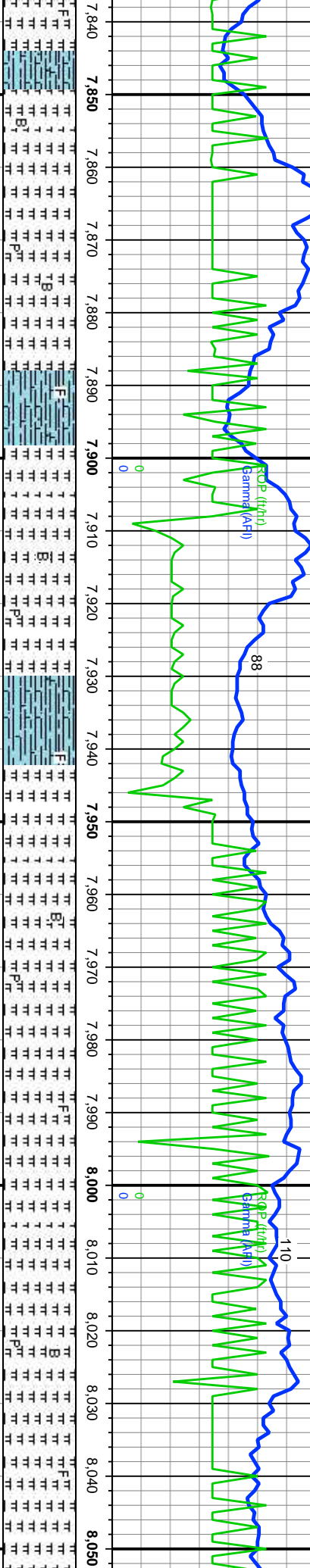
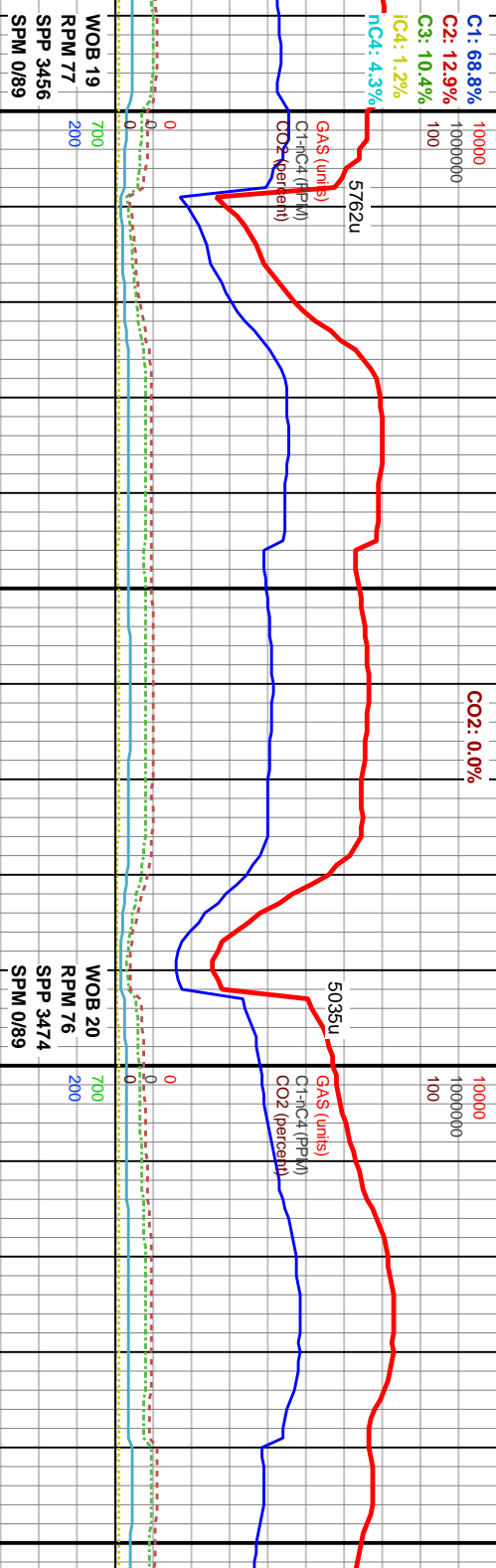


7.620 7.630 7.640 7.650 7.660 7.670 7.680 7.690 7.700 7.710 7.720 7.730 7.740 7.750 7.760 7.770 7.780 7.790 7.800 7.810 7.820 7.830



100% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb blk, rthy lstr, grty, abndt motild carb mat. com CHK: gy/wh, lt gy, mod frm, occ brt, sb ply-sb blk, dull rthy lstr, v calc.	90% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb blk, rthy lstr, grty, abndt motild carb mat. 10% CHK: gy/wh, lt gy, mod frm, occ brt, sb ply-sb blk, dull rthy lstr, v calc.	95% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb blk, rthy lstr, grty, abndt motild carb mat. 5% CHK: gy/wh, lt gy, mod frm, occ brt, sb ply-sb blk, dull rthy lstr, v calc.	90% MARL: med-dk gy, drk blk, frm-sft, s blk, rthy lstr, grty, abndt motild carb mat. 10% CHK: gy/wh, lt gy, mod frm, occ brt, blk, dull rthy lstr, v calc.
MD: 7.672' TVD: 6.225.61' Inclination: 90.58° Azimuth: 89.79° VS: 1.353.55'	MD: 7.757' TVD: 6.224.09' Inclination: 91.47° Azimuth: 88.87° VS: 1.438.46'	MD: TV: Inc: Azi: VS:	MD: TV: Inc: Azi: VS:
Tr Bent SH w pyr nodes, tr cal xls, com SH Fst blue whi blooming cut, good yllw-oring resid ring.	Tr Bent SH w pyr nodes, tr cal xls, com SH Sl fst blue whi strng rad cut, good yllw-oring resid ring.	Tr Bent SH w pyr nodes, tr cal xls, com SH Mod fst blue whi strng cut, good yllw-oring resid ring.	Tr Bent SH w pyr nodes, tr cal xls, com SH Sl slw sl du blue whi strng cut, good yllw resid ring.

7.840 7.850 7.860 7.870 7.880 7.890 7.900 7.910 7.920 7.930 7.940 7.950 7.960 7.970 7.980 7.990 8.000 8.010 8.020 8.030 8.040 8.050



MD: 7.843'
TVD: 6,220.97'
Inclination: 92.68°
Azimuth: 88.17°
VS: 1,524.36'

MD: 7.928'
TVD: 6,217.41'
Inclination: 92.13°
Azimuth: 88.65°
VS: 1,609.26'

MD: 8.013'
TVD: 6,214.66'
Inclination: 91.57°
Azimuth: 88.86°
VS: 1,694.16'

90% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb
blkly, rthy lstr, grtly, abndt motild carb mat.
10% CHK: gy/wh, lt gy, mod frm, occ brt, sb pily-sb
blkly, dull rthy lstr, v calc.

80% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb
blkly, rthy lstr, grtly, abndt motild carb mat.
20% CHK: gy/wh, lt gy, mod frm, occ brt, sb pily-sb
blkly, dull rthy lstr, v calc.

60% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb
blkly, rthy lstr, grtly, abndt motild carb mat.
40% CHK: gy/wh, lt gy, mod frm, occ brt, sb pily-sb
blkly, dull rthy lstr, v calc.

50% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb
blkly, rthy lstr, grtly, abndt motild carb mat.
50% CHK: gy/wh, lt gy, mod frm, occ brt, sb pily-sb
blkly, dull rthy lstr, v calc.

60% C
blkly, dr
40% M
blkly, rth

Tr Bent SH w pyr nodes, tr cal xls, com SH
Mod fst blue whi strng cut, good yllw-oring resid
ring.

Occ Bent SH w pyr nodes, rr cal xls, com SH
Sl fst blue whi strng cut, good yllw-oring sl blu resid
ring.

rr Bent SH w pyr nodes, rr cal xls, com SH
Mod fst blue whi strng cut, good yllw-oring resid
ring.

rr Bent
Fst blu
ring.

8,060 8,070 8,080 8,090 8,100 8,110 8,120 8,130 8,140 8,150 8,160 8,170 8,180 8,190 8,200 8,210 8,220 8,230 8,240 8,250 8,260 8,270

C1: 57.9%
C2: 16.1%
C3: 13.8%
C4: 1.6%
nC4: 6.3%

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

5672u

WOB 33
RPM 0
SPP 2924
SPM 0/90

CO2: 0.0%

~1' Flare

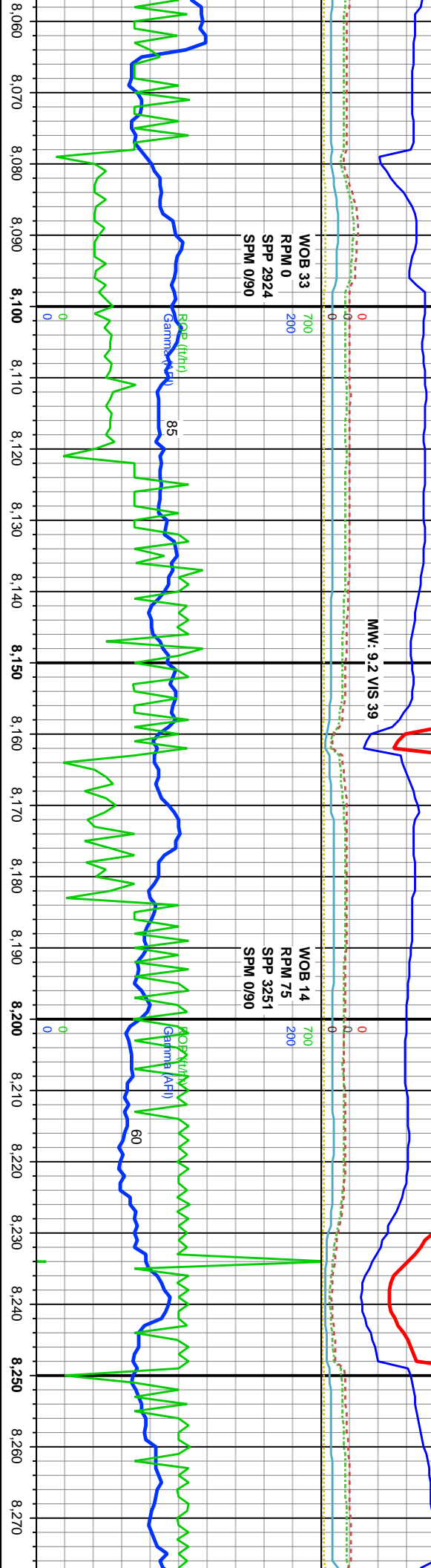
10000
1000000
100

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

4738u

WOB 14
RPM 75
SPP 3251
SPM 0/90

5108u



MD: 8,184'
TVD: 6,213.33'
Inclination: 89.32°
Azimuth: 87.95°
VS: 1,865.08'

MD: 8,270'
TVD: 6,213.66'
Inclination: 90.25°
Azimuth: 88.17°
VS: 1,951.06'

TVD (ft)

TVD (ft)

CHK: gy/wh, lt gy, mod frm, occ brt, sb ply-sb
all rthy lstr, v calc.

ARL: med-dk gy, drk blk, frm-sft, sb ply-sb
rthy lstr, grry, abndt motld carb mat.

SH w pyr nuds, com cal xls, rr SH
Mod fsl blue whi strng cut, good yllw-ornng resid

90% CHK: gy/wh, lt gy, mod frm, occ brt, sb ply-sb
blkly, dull rthy lstr, v calc.
10% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb
blkly, rthy lstr, grry, abndt motld carb mat.

rr Bent SH w pyr nuds, com cal xls, rr SH
Insint blue whi blooming cut, good yllw-ornng sl blu
resid ring.

100% CHK: gy/wh, lt gy, mod frm, occ brt, sb
ply-sb blkly, dull rthy lstr, v calc.
com MARL: med-dk gy, drk blk, frm-sft, sb ply-sb
blkly, rthy lstr, grry, abndt motld carb mat.

rr cal xls
Mod fsl blue whi strng cut, good yllw-ornng resid
ring.

100% CHK: gy/wh, lt gy, mod
ply-sb blkly, dull rthy lstr, v calc.
com MARL: med-dk gy, drk blk, frm-sft, sb ply-sb
blkly, rthy lstr, grry, abndt motld

Rr BENT, rr cal xls
Fst bri blue whi strng cut, good

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 8,430 8,440 8,450 8,460 8,470 8,480 8,490

C1: 51.9%
C2: 14.4%
C3: 14.9%
iC4: 2.2%
nC4: 8.9%

GAS (units)
C1+HC4 (ppm)
CO2 (percent)

WOB 14
RPM 76
SPM 3222
SPM 0/90

WOB 18
RPM 75
SPM 3464
SPM 0/90

WOB 15
RPM 76
SPM 34
SPM 0/90

ROA (ft/lb)
Gamma (ft/lb)

ROA (ft/lb)
Gamma (ft/lb)

ROA (ft/lb)
Gamma (ft/lb)

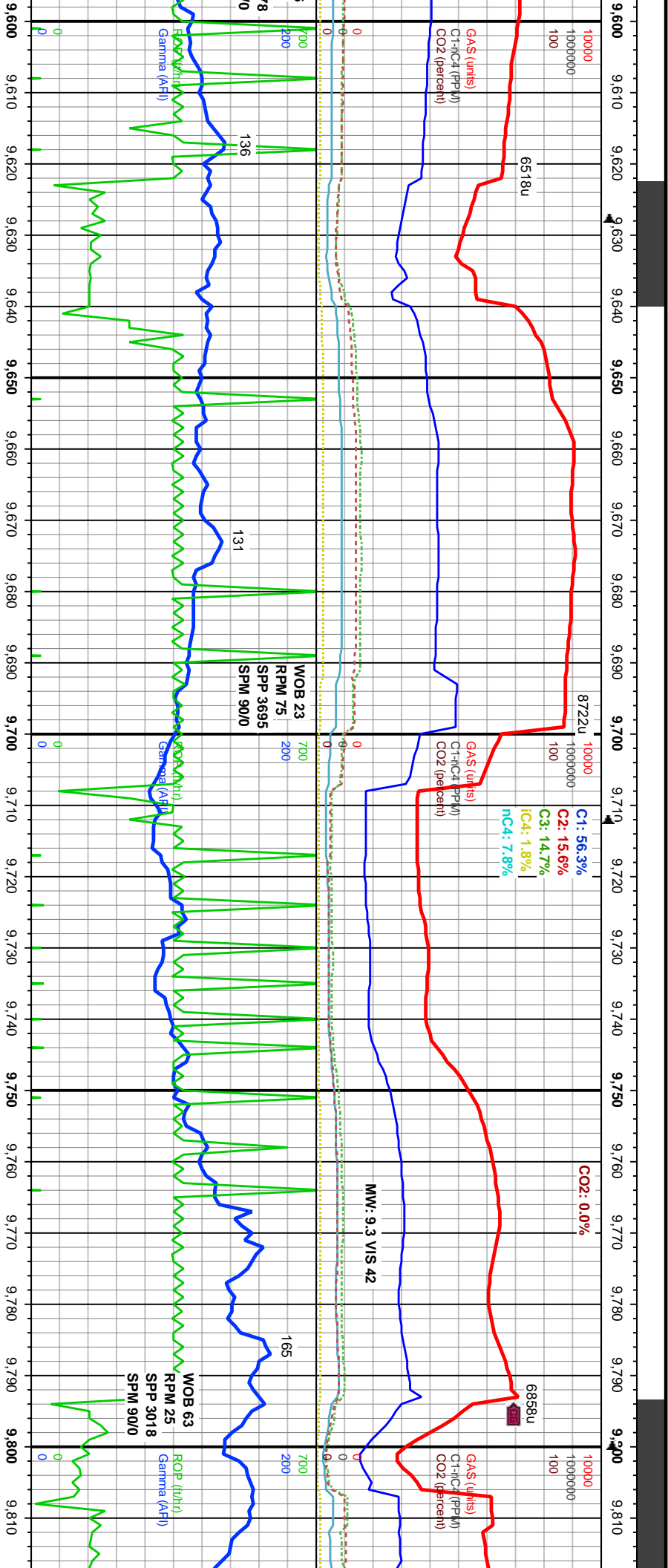
MD: 8.356'
TVD: 6,213.49'
Inclination: 89.97°
Azimuth: 87.91°
VS: 2.037.05'

MD: 8.443'
TVD: 6,213.28'
Inclination: 90.31°
Azimuth: 86.95°
VS: 2.124.04'

TVD (ft)

TVD (ft)

frm, occ brlt, sb	100% CHK: gy/wh, lt gy, mod frm, occ brlt, sb	80% CHK: gy/wh, lt gy, mod frm, occ brlt, sb ply-sb blkly, dull rthy lstr, v calc.	70% CHK: gy/wh, lt gy, mod frm, occ brlt, sb ply-sb blkly, dull rthy lstr, v calc.	80% CHK: gy/wh, lt gy, mod frm, occ brlt, sb ply-sb blkly, dull rthy lstr, v calc.
k, frm-sft, sb ply-sb	com MARL: med-dk gy, drk blk, frm-sft, sb ply-sb blkly, rthy lstr, grtty, abndt mottd carb mat.	20% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb blkly, rthy lstr, grtty, abndt mottd carb mat.	30% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb blkly, rthy lstr, grtty, abndt mottd carb mat.	20% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb blkly, rthy lstr, grtty, abndt mottd carb mat.
ld carb mat.				
frm, occ brlt, sb	tr cal xls	tr cal xls	tr cal xls	tr cal xls
ld carb mat.	V fst bri blue whi string cut, good yllw-oring resid ring.	Fst blue whi string cut, good yllw-oring resid ring.	Fst blue whi string cut, good yllw-oring resid ring.	Fst blue whi string cut, good yllw-oring resid ring.



MD: 9.645' TVD: 6.212.03' Inclination: 90.62° Azimuth: 86.88° VS: 3.325.75'		MD: 9.730' TVD: 6.210.2' Inclination: 91.85° Azimuth: 87.47° VS: 3.410.73'		MD: 9.816' TVD: 6.207' Inclination: Azimuth: 8 VS: 3.496'	
6150	6150	6150	6150	6150	6150
TVD (ft)		TVD (ft)		TVD (ft)	
80% CHK: gy/wh, lt gy, mod frm, occ brt, sb pily-sb biky, dull rthy istr, v calc.		90% CHK: gy/wh, lt gy, mod frm, occ brt, sb pily-sb biky, dull rthy istr, v calc.		90% CHK: gy/wh, lt gy, mod frm, occ brt, sb pily-sb biky, dull rthy istr, v calc.	
20% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb biky, rthy istr, grrty, abndt motild carb mat.		10% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb biky, rthy istr, grrty, abndt motild carb mat.		10% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb biky, rthy istr, grrty, abndt motild carb mat.	
rr cal xls abn Bent SH w/pyr nodes. Mod 1st blue whi blooming cut, good yllw-orng resid ring.		rr cal xls. tr bent SH w/pyr nodes. Inst blue whi blooming cut, good yllw-orng resid ring.		rr cal xls. vry abn Bent SH w/pyr nodes. Inst blue whi blooming cut, good yllw-orng resid ring.	

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 9,970 9,980 9,990 10,000 10,010 10,020 10,030

10000
1000000
100

Gas (units)
C1-4C4 (PPM)
CO2 (percent)

5879u

Power Outage

Gas (units)
C1-4C4 (PPM)
CO2 (percent)

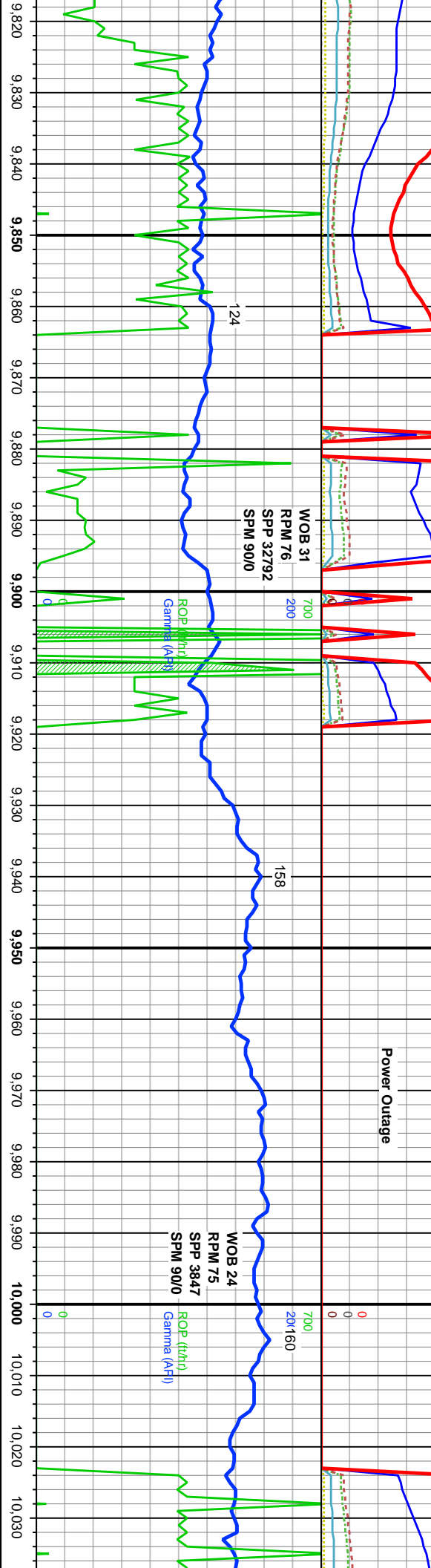
10000
1000000
100

WOB 31
RPM 76
SPM 32792
SPM 900

WOB 24
RPM 75
SPM 3847
SPM 900

ROP (ft/hr)
Gamma (AFI)

ROP (ft/hr)
Gamma (AFI)



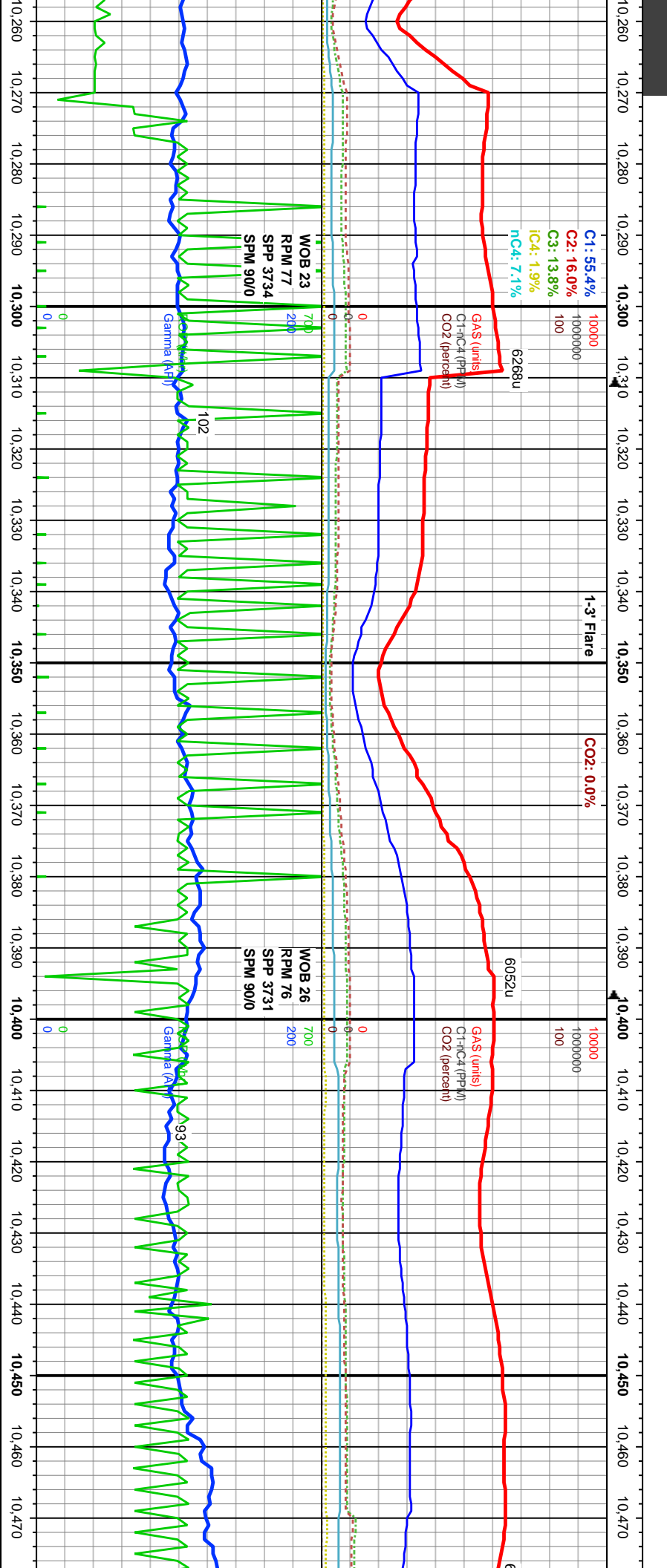
6150

6150

MD: 9,901'
TVD: 6,206.74'
Inclination: 89.22°
Azimuth: 87.92°
VS: 3,581.65'

MD: 9,987'
TVD: 6,207.88'
Inclination: 89.25°
Azimuth: 88.09°
VS: 3,667.63'

1 gy, mod frm, occ brlt, sb ply-sb calc. blk gy, drk blk, frm-sft, sb ply-sb abndt mottld carb mat.	70% CHK: gy/wh, lt gy, mod frm, occ brlt, sb ply-sb biky, dull rthy lstr, v calc. 30% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb biky, rthy lstr, grtty, abndt mottld carb mat.	70% CHK: gy/wh, lt gy, mod frm, occ brlt, sb ply-sb biky, dull rthy lstr, v calc. 30% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb biky, rthy lstr, grtty, abndt mottld carb mat.	50% CHK: gy/wh, lt gy, mod frm, occ brlt, sb ply-sb biky, dull rthy lstr, v calc. 50% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb biky, rthy lstr, grtty, abndt mottld carb mat.	50% CHK: gy/wh, lt gy, mod frm, occ brlt, sb ply-sb biky, dull rthy lstr, v calc. 50% MARL: med-dk gy, drk blk, frm-sft, sb ply-sb biky, rthy lstr, grtty, abndt mottld carb mat.
pyr nodes. ing cut, good yllw-oring resid	rr cal xls. vry abn Bent SH w/pyr nodes. Inst blue whi blooming cut, good yllw-oring resid	rr cal xls. vry abn Bent SH w/pyr nodes. mod-good blue whi blooming cut, good yllw-oring resid	rr cal xls. vry abn Bent SH w/pyr nodes. mod-good blue whi blooming cut, good yllw-oring resid	rr cal xls. vry abn Bent SH w/pyr nodes. Inst blue whi blooming cut, mod good yllw resid



10,260	10,270	10,280	10,290	10,300	10,310	10,320	10,330	10,340	10,350	10,360	10,370	10,380	10,390	10,400	10,410	10,420	10,430	10,440	10,450	10,460	10,470			
MD: 10,329'					MD: 10,414'					MD: 10,414'					MD: 10,414'					MD: 10,414'				
TV/D: 6,204.15'					TV/D: 6,203.22'					TV/D: 6,203.22'					TV/D: 6,203.22'					TV/D: 6,203.22'				
Inclination: 90.27°					Inclination: 90.98°					Inclination: 90.98°					Inclination: 90.98°					Inclination: 90.98°				
Azimuth: 86.97°					Azimuth: 87.27°					Azimuth: 87.27°					Azimuth: 87.27°					Azimuth: 87.27°				
VS: 4,009.49'					VS: 4,094.48'					VS: 4,094.48'					VS: 4,094.48'					VS: 4,094.48'				
90% CHK: gy/wh, lt gy, mod frm, occ brit, sb pily-sb					80% CHK: gy/wh, lt gy, mod frm, occ brit, sb pily-sb					80% CHK: gy/wh, lt gy, mod frm, occ brit, sb pily-sb					80% CHK: gy/wh, lt gy, mod					100% CHK: gy/wh, lt gy, mod				
biky, dull rthy lstr, v calc.					biky, dull rthy lstr, v calc.					biky, dull rthy lstr, v calc.					biky, dull rthy lstr, v calc.					pily-sb biky, dull rthy lstr, v calc.				
10% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb					10% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb					10% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb					10% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb					10% MARL: med-dk gy, drk blk, frm-sft, sb pily-sb				
biky, rthy lstr, grtty, abndt mottld carb mat.					biky, rthy lstr, grtty, abndt mottld carb mat.					biky, rthy lstr, grtty, abndt mottld carb mat.					biky, rthy lstr, grtty, abndt mottld carb mat.					rthy lstr, grtty, abndt mottld carb				
rr cal xls.					rr cal xls.					rr cal xls.					rr cal xls.					rr cal xls.				
vry abn Bent SH w/pyr nodes.					vry abn Bent SH w/pyr nodes.					vry abn Bent SH w/pyr nodes.					vry abn Bent SH w/pyr nodes.					abn Bent SH w/pyr nodes.				
Inst blue whl blooming cut, good yllw-oring resid					Inst blue whl blooming cut, good yllw-oring resid					Inst blue whl blooming cut, good yllw-oring resid					Inst blue whl blooming cut, good yllw-oring resid					V st brt blue whl blooming cut				
ring.					ring.					ring.					ring.					resid ring.				

