



Scale: 5" / 100'
Measured Depth Log

Well Name Flaschenriem 2

Location Section 3, Township 4N, Range 68W

State Colorado

County Weld

Country USA

Rig Number Ensign 140

API Number 05-123-49817

AFE # N/A

Geographic Region Rockies

Field Wattenberg

Spud Date 3/22/2019

Drilling Completed 4/27/2019

Surface Coordinates 1,848'FNL & 2,180'FWL, Sec:3 T:4N R:68W
Latitude: 40.34413, Longitude: -104.99154

Bottom Hole Coordinates 1,994'FSL & 460'FEL, Sec:35 T:5N R:68W
Latitude: 40.35499 Longitude: -104.96611

Ground Elevation 5,068'

K.B. Elevation 5,091'

Logged Interval 5,000' To 8,880'

Total Depth 15,889'

Formation Codell

Type of Drilling Fluid Oil Based Mud

Operator

Company Petro Operating Company, LLC

Address 9033 East Easter Place, Suite 112
Centennial, CO 80112-2105

**Petro  operating
Company, LLC**

Geologist

Name Michael Domenick

Company Petro Operating Company, LLC

Address 9033 East Easter Place, Suite 112
Centennial, CO 80112-2105

Zone Color Coding

 Oil	 Condensate	 Gas
 Note	 Core	 Pressure
 Error	 Water	 Seal

Petro perating Company, LLC

Other

Loggers: Byron Pitulski/Greg Diefenbach

Services Provided: 2 Man Logging, Geosteering

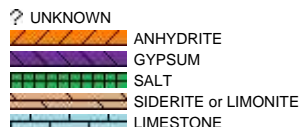
Equipment: ML-585

Start Date 04/25/2019

Release Date: 04/27/2019

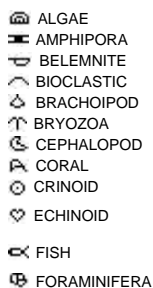
Job #: 2073RK1904

Rock Types



Accessories

Fossils



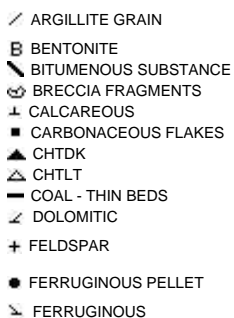
Fossil



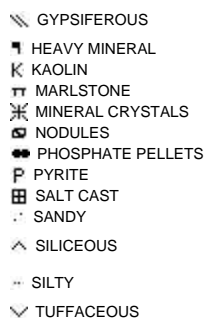
Minerals



Argillaceous



Glaucconite

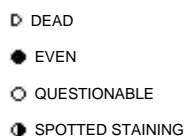


Stringer

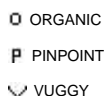


Other Symbols

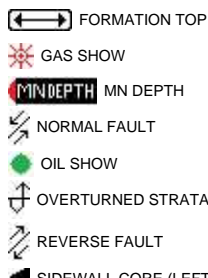
Oil Show



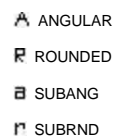
Porosity



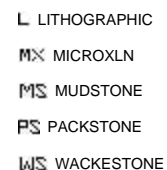
Engineering



Rounding



Textures



Sorting



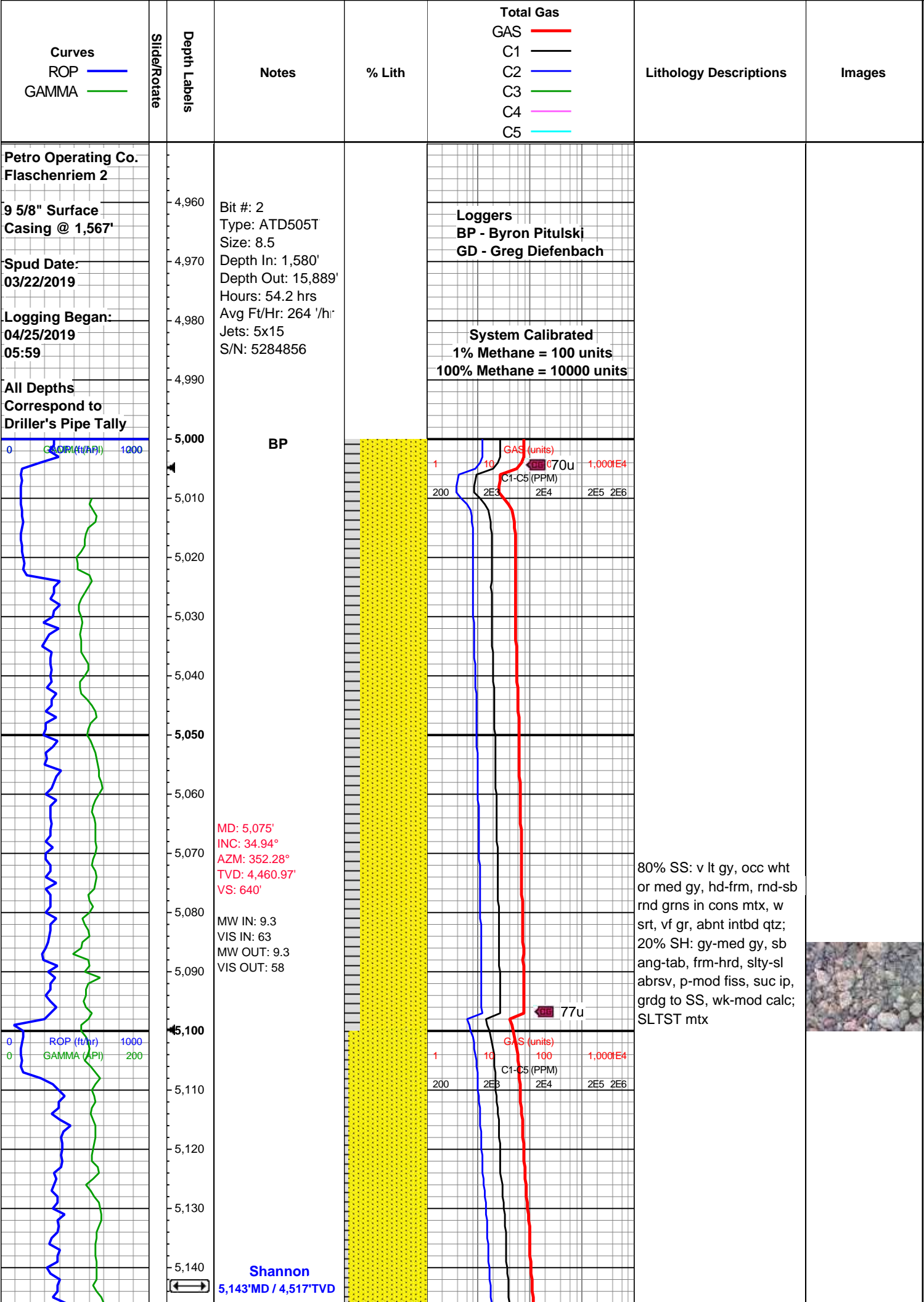
E EARTHY
F FENESTRAL
F FRACTURE
X INTERCRYSTALLINE
Φ INTEROOLITIC
M MOLDIC

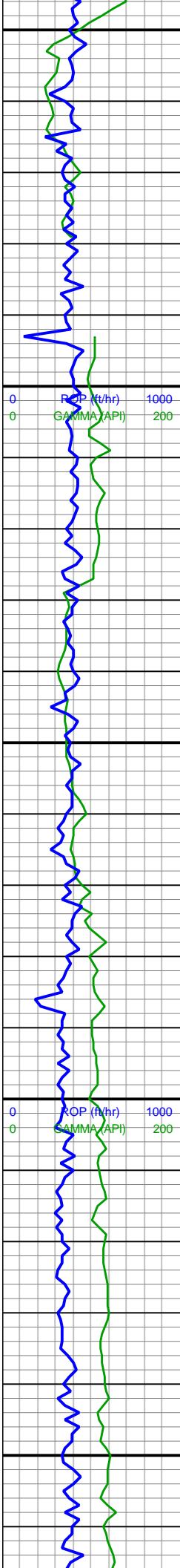
◀ CONNECTION (LEFT)
▶ CONNECTION (RIGHT)
CG CONNECTION GAS
⬇ CORE - LOST
■ CORE - RECOVERED
DST INTERVAL
/ FAULT

◀ SIDEWALL CORE (LEFT)
▶ SIDEWALL CORE (RIGHT)
SLIDE
DS SURVEY
TG TRIP GAS
◀ WIRELINE TESTED - LEFT
▶ WIRELINE TESTED - RT

BS BOUNDSTONE
C CHALKY
CX CRYPTOXLN
E EARTHY
FX FINELYXLN
GS GRAINSTONE

M MODERATE
P POOR
W WELL





5,150
5,160
5,170
5,180
5,190
5,200
5,210
5,220
5,230
5,240
5,250
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5,300
5,310
5,320
5,330
5,340
5,350
5,360

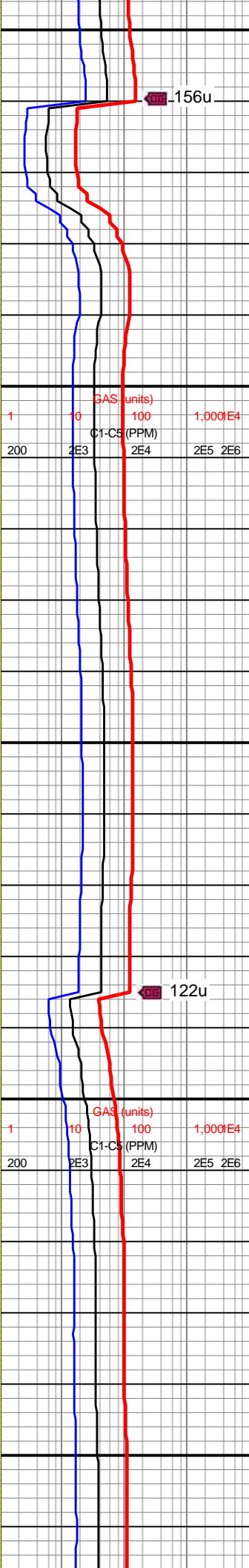
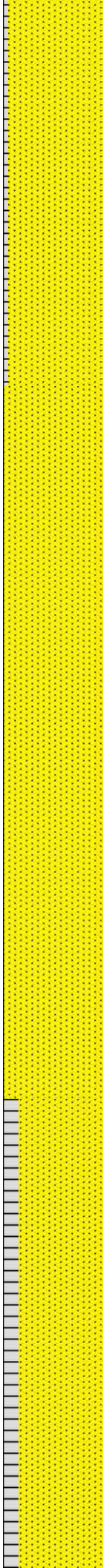
MD: 5,169'
INC: 35°
AZM: 350.25°
TVD: 4,538'
VS: 658.91'

WOB: 20klbs
RPM: 80
SPM: 171
SPP: 2,744psi

MD: 5,264'
INC: 35.07°
AZM: 346.83°
TVD: 4,615.8'
VS: 675.6'

MW IN: 9.3
VIS IN: 62
MW OUT: 9.3+
VIS OUT: 63

MD: 5,358'
INC: 35.01°
AZM: 344.15°
TVD: 4,692.76'
VS: 689.37'



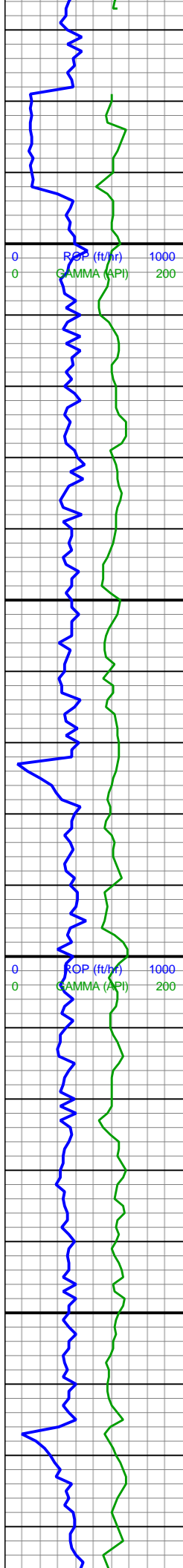
156u

122u

95% SS: v lt gy, occ
wht-med gy, hd-frm,
rnd-sb rnd grns in cons
mtx, w srt, vf gr, abnt intbd
qtz; 5% SH: gy-med gy,
sb ang-tab, frm-hrd,
slty-sl abrsv, p-mod fiss,
suc ip, grdg to SS,
wk-mod calc; com SLTST
mtx

100% SS: v lt gy, op, occ
wht-med gy, hd-frm,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz, wk calc;
com SLTST mtx





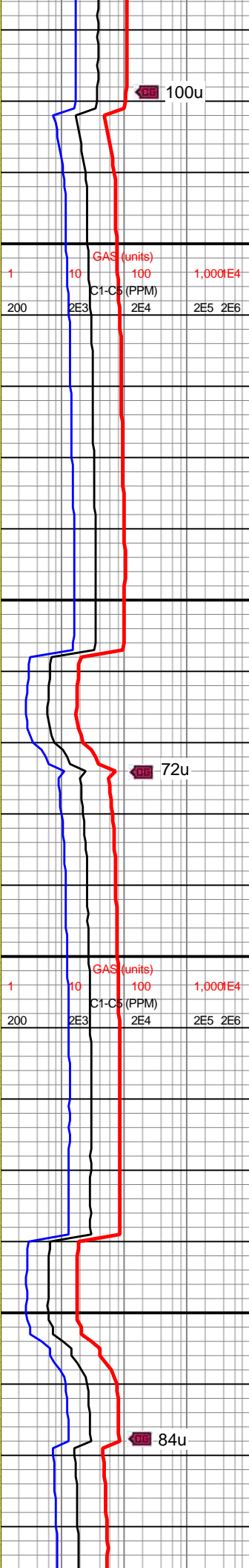
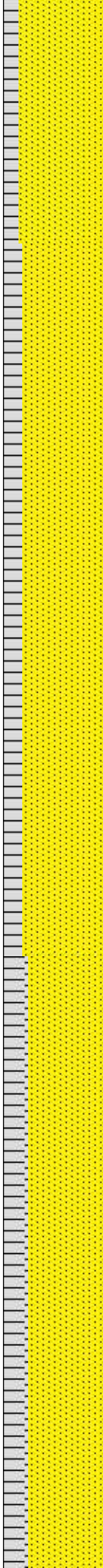
5,370
5,380
5,390
5,400
5,410
5,420
5,430
5,440
5,450
5,460
5,470
5,480
5,490
5,500
5,510
5,520
5,530
5,540
5,550
5,560
5,570
5,580

WOB: 16klbs
RPM: 80
SPM: 170
SPP: 2,745psi

MD: 5,451'
INC: 35.06°
AZM: 344.01°
TVD: 4,768.91'
VS: 701.71'

MD: 5,545'
INC: 34.95°
AZM: 345.68°
TVD: 4,845.91'
VS: 714.88'

MW IN: 9.3
VIS IN: 61
MW OUT: 9.3
VIS OUT: 60



85% SS: v lt gy, occ wht or med gy, hd-frm, rnd-sb rnd grns in cons mtx, w srt, vf gr, abnt intbd qtz; 15% SH: gy-med gy, sb ang-tab, frm-hrd, slty-sl abrsv, p-mod fiss, suc ip, grdg to SS, wk calc; com SLTST mtx

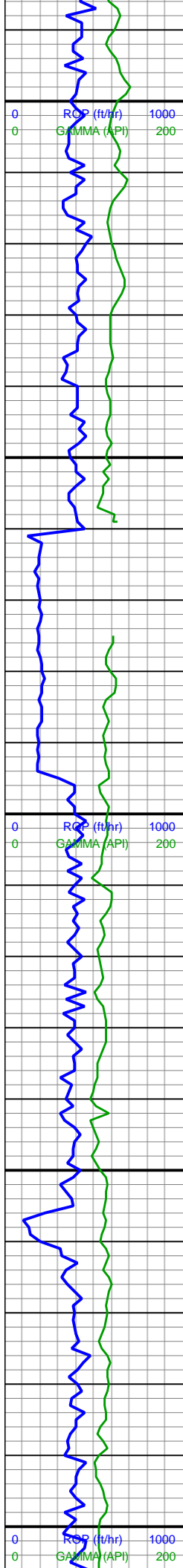


80% SS: predy v lt gy, occ wht-med gy, hd-frm, rnd-sb rnd grns in cons mtx, w srt, vf gr, abnt intbd qtz; 20% SH: gy-med gy, sb ang-tab, frm-hrd, slty-sl abrsv, p-mod fiss, suc ip, grdg to SS, wk-mod calc; SLTST mtx



75% SS: v lt gy, occ wht or med gy, hd-frm, rnd-sb rnd grns in cons mtx, tr slt mtx, w srt, vf gr, abnt intbd qtz; 25% SH:





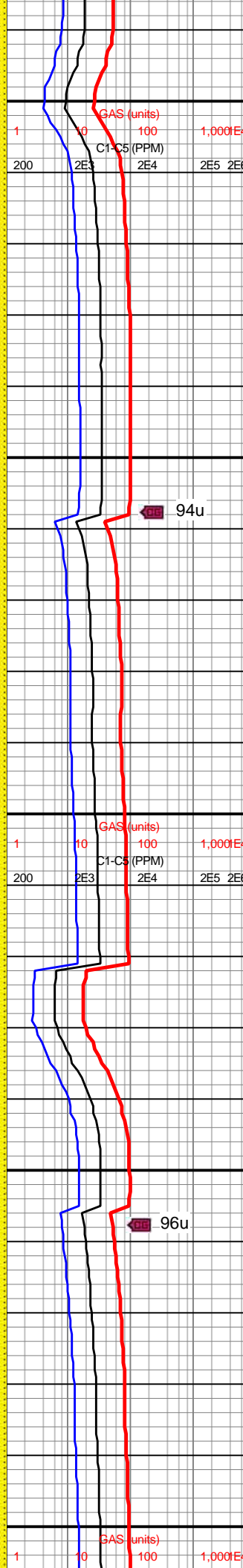
WOB: 20klbs
RPM: 80
SPM: 171
SPP: 2,774psi

MD: 5,639'
INC: 34.5°
AZM: 349.08°
TVD: 4,923.18'
VS: 730.22'

MD: 5,733'
INC: 34.91°
AZM: 351.12°
TVD: 5,000.45'
VS: 747.99'

MW IN: 9.3
VIS IN: 60
MW OUT: 9.3
VIS OUT: 59

WOB: 16klbs
RPM: 80
SPM: 171

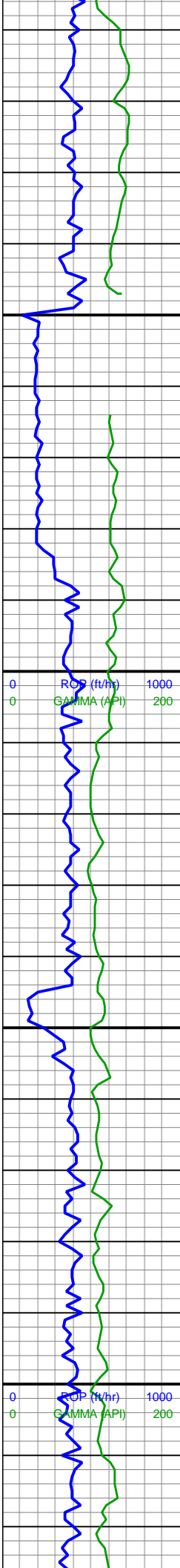


gy-med gy, sb ang-tab,
frm-hrd, slty-sl abrsv,
p-mod fiss, suc ip, grdg
to SS, wk-mod calc; com
SLTST mtx

100% SS: predy v lt gy,
occ wht-med gy, hd-frm,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz

90% SS: v lt gy, wht-med
gy, hd-frm, rnd-sb rnd
grns in cons mtx, w srt, vf
gr, abnt intbd qtz; 10%
SH: gy-med gy, sb
ang-tab, frm-hrd, slty-sl
abrsv, p-mod fiss, suc ip,
grdg to SS, wk calc; com
SLTST mtx





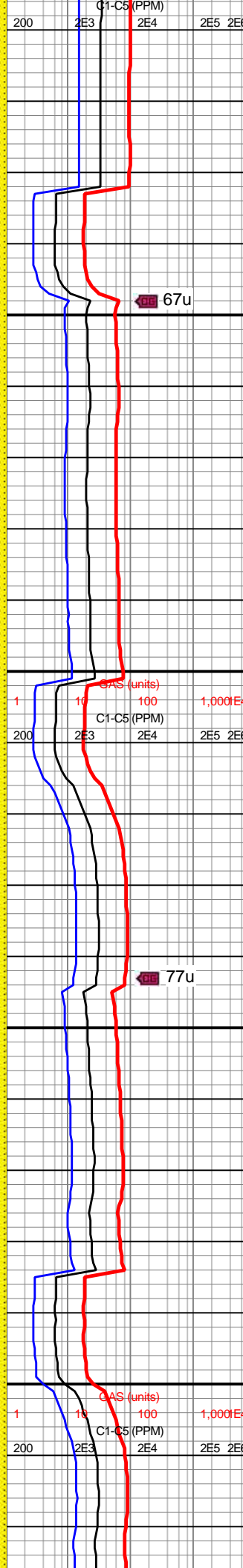
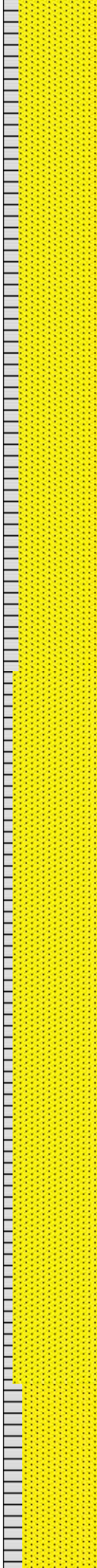
SPP: 2,884psi

MD: 5,828'
INC: 34.57°
AZM: 351.07°
TVD: 5,078.52'
VS: 766.85'

MD: 5,922'
INC: 35.25°
AZM: 351.94°
TVD: 5,155.61'
VS: 785.95'

WOB: 13klbs
RPM: 80
SPM: 171
SPP: 2,910psi

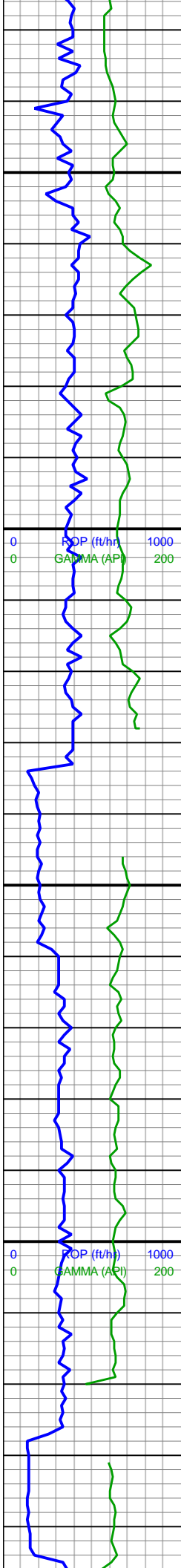
MD: 6,016'
INC: 35.02°
AZM: 351.43°
TVD: 5,232.48'
VS: 805.32'



85% SS: v lt gy, gy-wht, hd-frm, rnd-sb rnd grns in cons mtx, w srt, vf gr, abnt intbd qtz; 15% SH: gy-med gy, sb ang-tab, frm-hrd, slty-sl abrsv, p-mod fiss, suc ip, grdg to SS, mod calc

90% SS: v lt gy, wht-gy, hd-frm, rnd-sb rnd grns in cons mtx, w srt, vf gr, abnt intbd qtz; 10% SH: gy-med gy, sb ang-tab, frm-hrd, slty-sl abrsv, p-mod fiss, suc ip, grdg to SS, wk-mod calc; com SLTST mtx



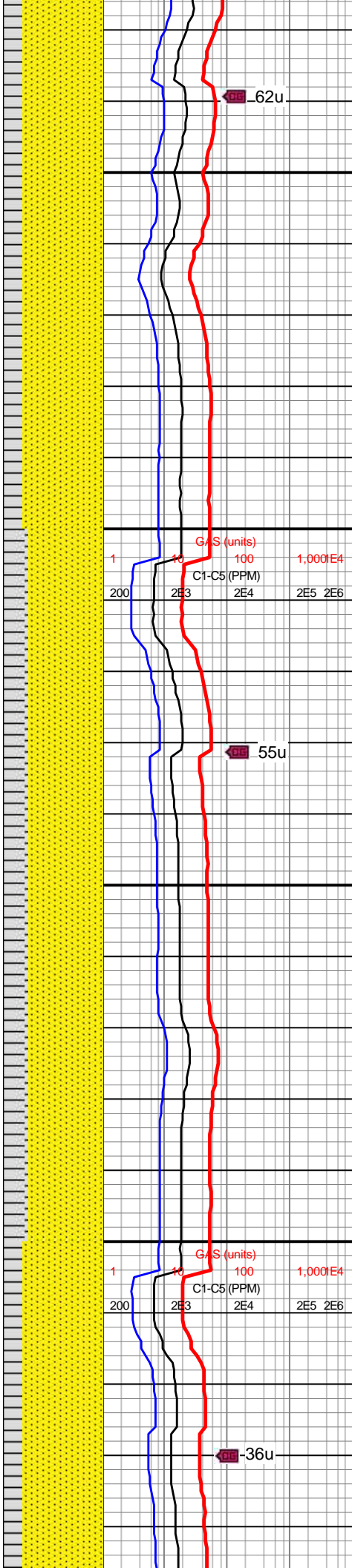


MW IN: 9.3
VIS IN: 59
MW OUT: 9.3
VIS OUT: 58

MD: 6,111'
INC: 34.36°
AZM: 354.58°
TVD: 5,310.6'
VS: 825.81'

WOB: 6klbs
RPM: 80
SPM: 170
SPP: 2,795psi

MD: 6,206'
INC: 35.05°
AZM: 358.26°
TVD: 5,388.7'
VS: 849.28'



62u

55u

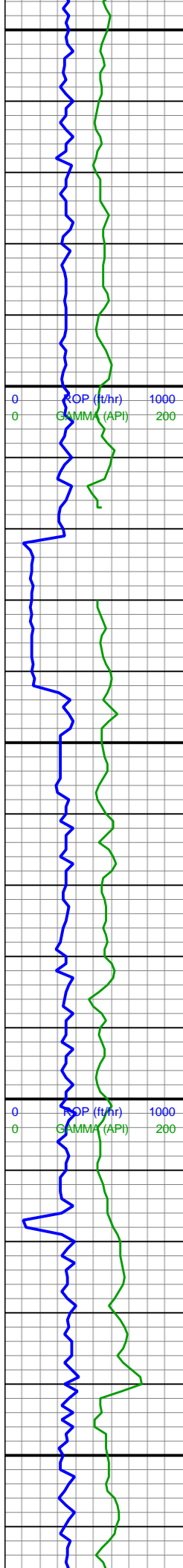
36u

80% SS: v lt gy, occ wht
or med gy, hd-frn, rnd-sb
rnd grns in cons mtx, tr
slt mtx, w srt, vf gr, abnt
intbd qtz; 20% SH:
gy-med gy, sb ang-tab,
frm-hrd, slty-sl abrsv,
p-mod fiss, suc ip, grdg
to SS, wk-mod calc



75% SS: v lt gy, occ
wht-gy, hd-frn, rnd-sb
rnd grns in cons mtx, w
srt, vf gr, abnt intbd qtz;
25% SH: gy-med gy, sb
ang-tab, frm-hrd, slty-sl
abrsv, p-mod fiss, suc ip,
grdg to SS, wk calc; com
SLTST mtx





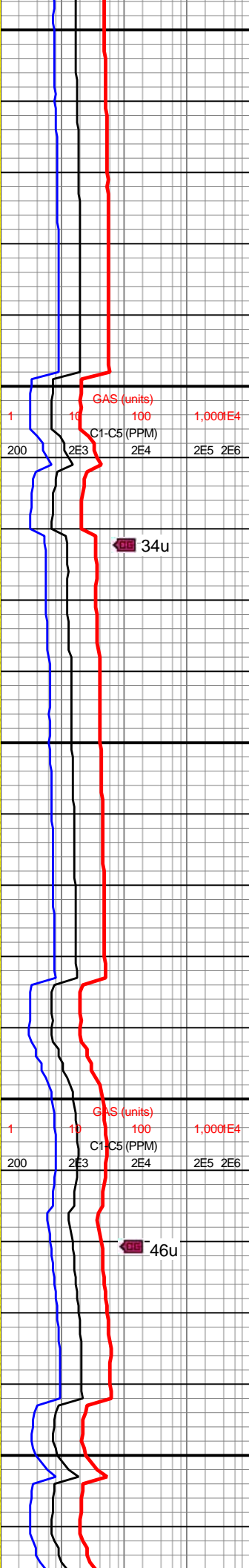
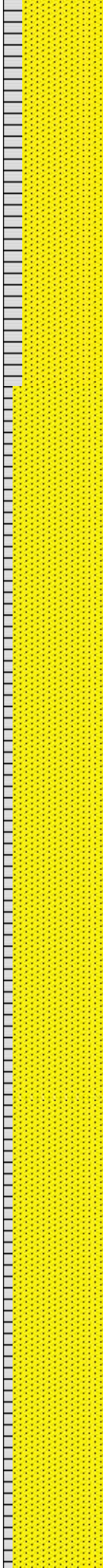
6,250
6,260
6,270
6,280
6,290
6,300
6,310
6,320
6,330
6,340
6,350
6,360
6,370
6,380
6,390
6,400
6,410
6,420
6,430
6,440
6,450
6,460

MD: 6,301'
INC: 35.07°
AZM: 359.02°
TVD: 5,466.47'
VS: 874.84'

MW IN: 9.2+
VIS IN: 57
MW OUT: 9.2+
VIS OUT: 56

MD: 6,395'
INC: 35.4°
AZM: 358.83°
TVD: 5,543.25'
VS: 900.48'

WOB: 8klbs
RPM: 80
SPM: 172
SPP: 2,691psi

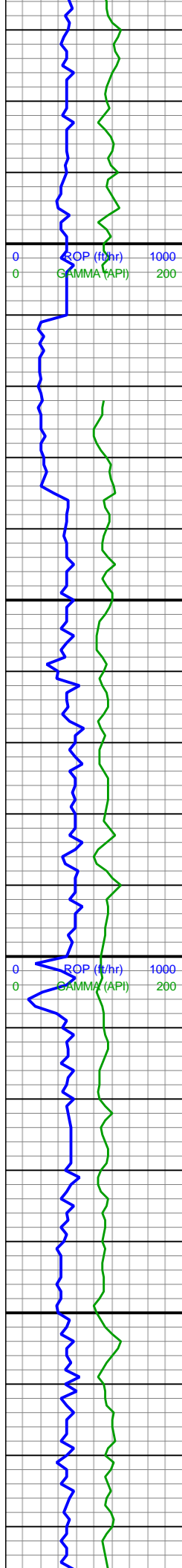


80% SS: v lt gy, occ wht or med gy, hd-frm, rnd-sb rnd grns in cons mtx, w srt, vf gr, abnt intbd qtz; 20% SH: gy-med gy, sb ang-tab, frm-hrd, slty-sl abrsv, p-mod fiss, suc ip, grdg to SS, wk-mod calc; com SLTST mtx



90% SS: predy v lt gy, med gy-wht, hd-frm, rnd-sb rnd grns in cons mtx, tr slt mtx, w srt, vf gr, abnt intbd qtz; 10% SH: gy-med gy, sb ang-tab, frm-hrd, slty-sl abrsv, p-mod fiss, suc ip, grdg to SS, mod calc; abnt intbd qtz





6,470
6,480
6,490
6,500
6,510
6,520
6,530
6,540
6,550
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

MD: 6,490'
INC: 35.31°
AZM: 358.2°
TVD: 5,620.73'
VS: 926.12'

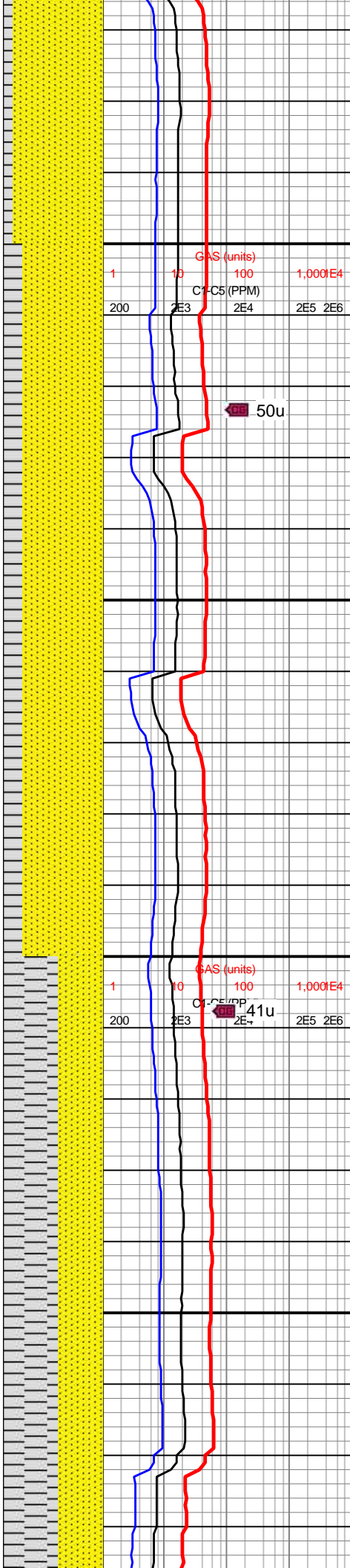
MW IN: 9.3
VIS IN: 56
MW OUT: 9.2+
VIS OUT: 56

MD: 6,584'
INC: 35.3°
AZM: 353.99°
TVD: 5,697.45'
VS: 949.4'

WOB: 8klbs
RPM: 80
SPM: 172
SPP: 2,827psi

MW IN: 9.3
VIS IN: 56
MW OUT: 9.2
VIS OUT: 54

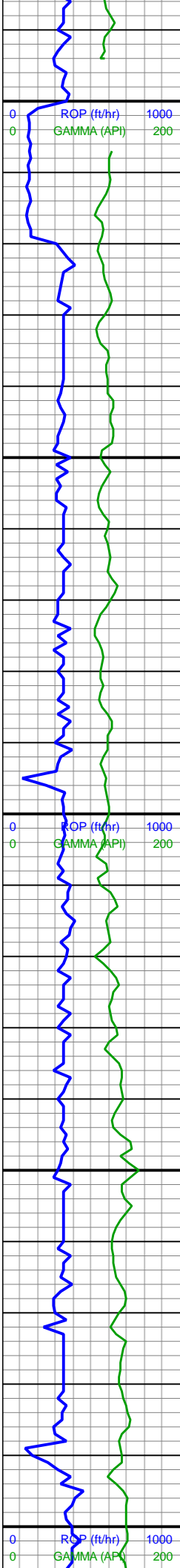
MD: 6,678'
INC: 35.28°
AZM: 353.87°
TVD: 5,774.18'



90% SS: predy v lt gy,
med gy-wht, hd-frm,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr;
10% SH: gy-med gy, sb
ang-tab, frm-hrd, slty-sl
abrsv, p-mod fiss, suc ip,
grdg to SS, mod calc;
abnt intbd qtz

80% SS: predy v lt gy,
med gy-wht, hd-frm,
rnd-sb rnd grns in cons
mtx, w srt, vf gr; 20% SH:
gy-med gy, sb ang-tab,
frm-hrd, slty-sl abrsv,
p-mod fiss, suc ip, grdg
to SS, mod calc, abnt
intbd qtz; SLTST mtx

55% SH: med gy-dk gy,
sb ang-tab, frm-hrd,
slty-sl abrsv, p-mod fiss,
suc ip, grdg to SS; 45%
SS: v lt gy, occ wht or
med gy, hd frm, rnd sb



VS: 970.81'

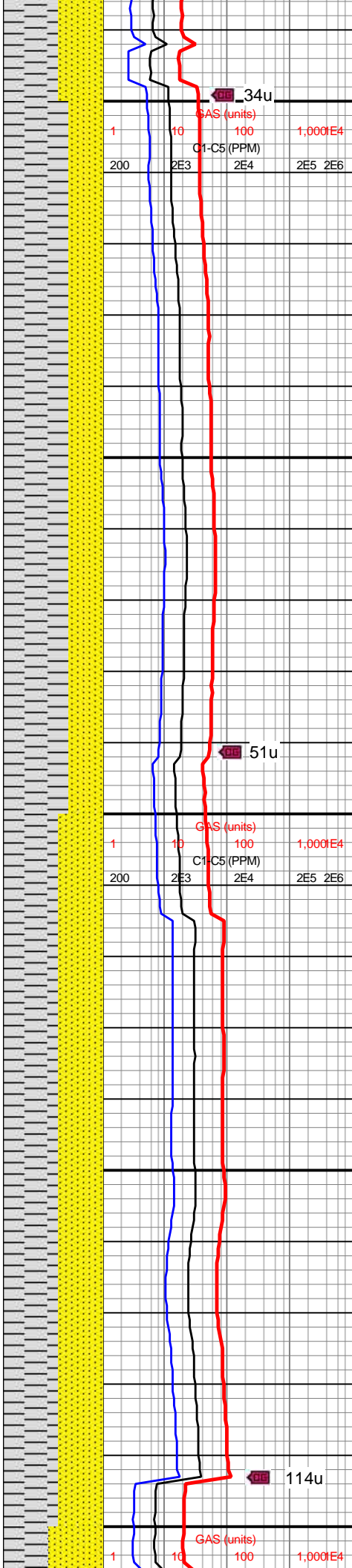
MD: 6,772'
INC: 35.32°
AZM: 349.73°
TVD: 5,850.9'
VS: 990.35'

MW IN: 9.2+
VIS IN: 56
MW OUT: 9.2+
VIS OUT: 56

WOB: 7klbs
RPM: 80
SPM: 171
SPP: 2,828psi

GD

MD: 6,867'
INC: 35.17°
AZM: 348.77°
TVD: 5,928.49'
VS: 1,007.78'

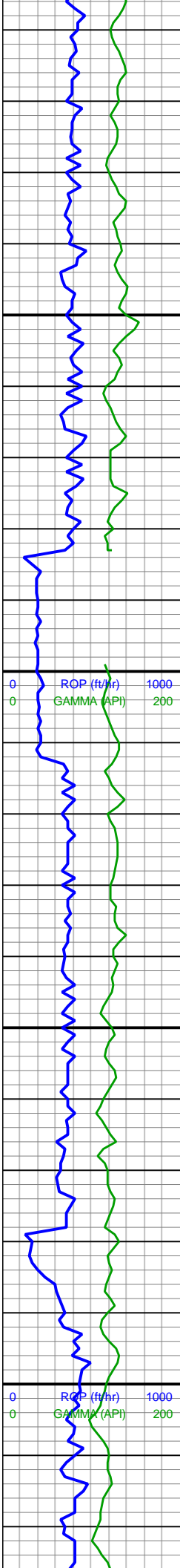


med gy, hd-frm, rnd-sb
rnd grns in cons mtx, tr
slt mtx, w srt, vf gr, intbd
clr qtz, wk calc; abnt
SLTST mtx

70% SH: med gy-dk gy,
sb ang-tab, frm-hrd,
sly-sl abrv, p-mod fiss,
suc ip, grdg to SS; 30%
SS: v lt gy, occ wht or
med gy, hd-frm, rnd-sb
rnd grns in cons mtx, w
srt, vf gr, intbd clr qtz, wk
calc; abnt SLTST mtx

55% SH: gy-med gy, sb
ang-tab, frm-hrd, sly-sl
abrv, p-mod fiss, suc ip,
grdg to SS, wk-mod calc;
45% SS: v lt gy, occ wht
or med gy, hd-frm, rnd-sb
rnd grns in cons mtx, tr
slt mtx, w srt, vf gr, abnt
intbd qtz





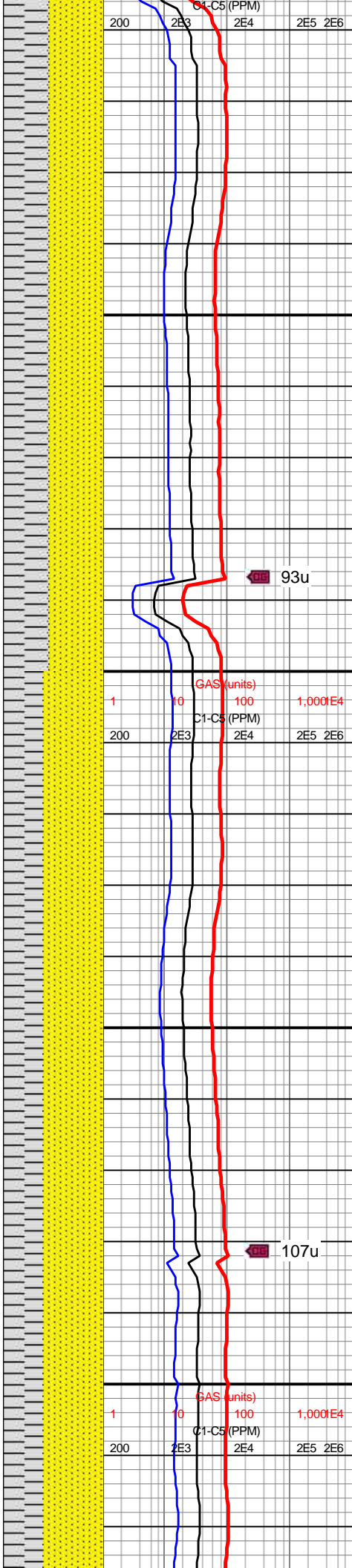
MW IN: 9.2+
VIS IN: 55
MW OUT: 9.2
VIS OUT: 53

MD: 6,962'
INC: 35.1°
AZM: 350.77°
TVD: 6,006.18'
VS: 1,025.63'

WOB: 10.2klbs
RPM: 80
SPM: 172
SPP: 2,886psi

MD: 7,057'
INC: 35°
AZM: 349.5°
TVD: 6,083.96'
VS: 1,043.77'

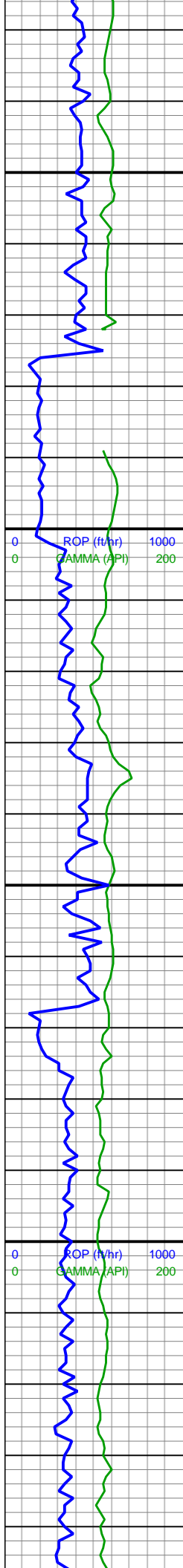
MW IN: 9.2+
VIS IN: 54
MW OUT: 9.2+
VIS OUT: 54



55% SS: v lt gy, occ
wht-med gy, hd-frn,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz, wk-mod
calc; 45% SH: med gy-dk
gy, sb ang-tab, frm-hrd,
slty-sl abrsv, p-mod fiss,
suc ip, grdg to SS

60% SS: v lt gy, occ
wht-med gy, hd-frn,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz, wk-mod
calc; 40% SH: med gy-dk
gy, sb ang-tab, frm-hrd,
slty-sl abrsv, p-mod fiss,
suc ip, grdg to slt





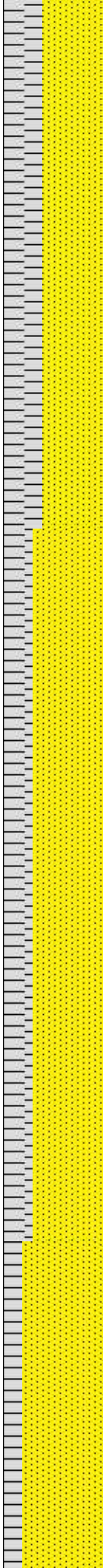
7,130
7,140
7,150
7,160
7,170
7,180
7,190
7,200
7,210
7,220
7,230
7,240
7,250
7,260
7,270
7,280
7,290
7,300
7,310
7,320
7,330
7,340

MD: 7,151'
INC: 34.92°
AZM: 346.37°
TVD: 6,161'
VS: 1,059.72'

WOB: 14.2klbs
RPM: 80
SPM: 172
SPP: 2,896psi

MD: 7,246'
INC: 34.74°
AZM: 343.47°
TVD: 6,238.99'
VS: 1,073.04'

MD: 7,340'
INC: 34.98°
AZM: 343.4°
TVD: 6,316.12'
VS: 1,084.87'



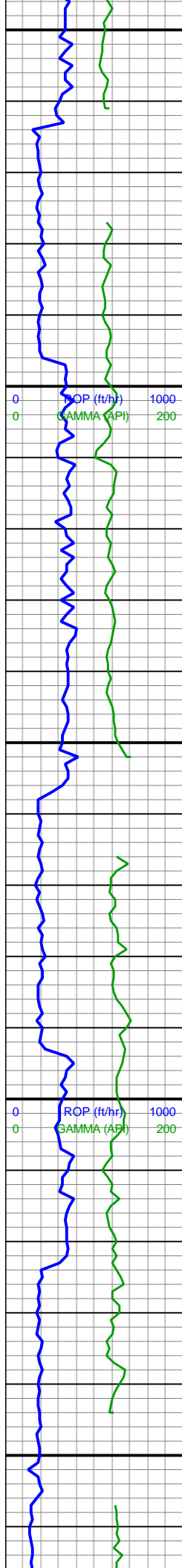
101u

116u

60% SS: v lt gy, occ
wht-med gy, hd-frm,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz, wk-mod
calc; 40% SH: med gy-dk
gy, sb ang-tab, frm-hrd,
slty-sl abrsv, p-mod fiss,
suc ip, grdg to slt

70% SS: v lt gy, occ
wht-med gy, hd-frm,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz, wk-mod
calc; 30% SH: med gy-dk
gy, sb ang-tab, frm-hrd,
slty-sl abrsv, p-mod fiss,
suc ip, grdg to slt





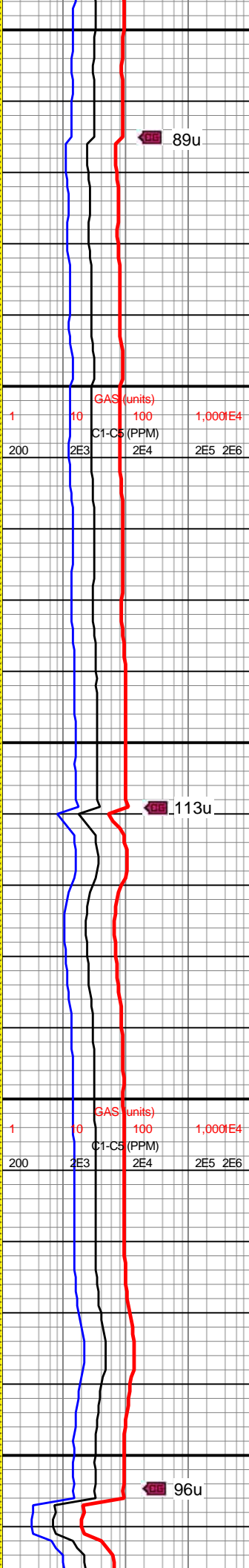
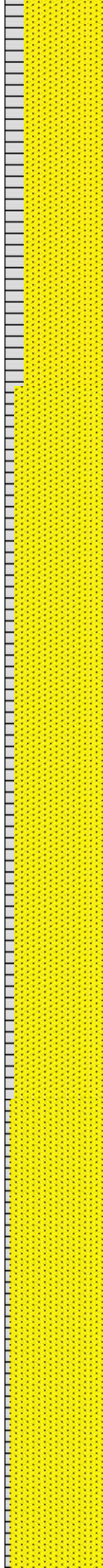
7,350
7,360
7,370
7,380
7,390
7,400
7,410
7,420
7,430
7,440
7,450
7,460
7,470
7,480
7,490
7,500
7,510
7,520
7,530
7,540
7,550
7,560

WOB: 14.5klbs
RPM: 80
SPM: 172
SPP: 2,874psi

MD: 7,434'
INC: 34.75°
AZM: 342.21°
TVD: 6,393.25'
VS: 1,096.13'

MD: 7,529'
INC: 34.27°
AZM: 348.52°
TVD: 6,471.55'
VS: 1,109.72'

MW IN: 9.3+
VIS IN: 55



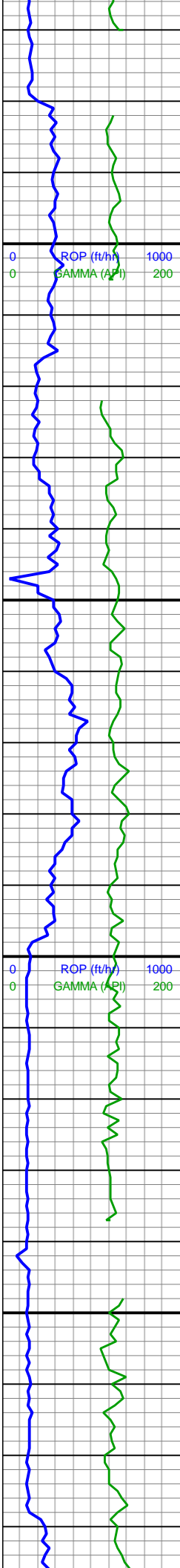
89u

80% SS: v lt gy, occ
wht-med gy, hd-frm,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz, wk-mod
calc; 20% SH: med gy-dk
gy, sb ang-tab, frm-hrd,
silty-sl abrsv, suc ip, grdg
to slt, p-mod fiss

113u

90% SS: lt-med gy, occ
wht-med gy, hd-frm,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz, wk-mod
calc; 10% SH: med gy-dk
gy, sb ang-tab, frm-hrd,
silty-sl abrsv, suc ip, grdg
to slt, p-mod fiss

96u



MW OUT: 9.3
VIS OUT: 54

WOB: 11.6klbs
RPM: 80
SPM: 170
SPP: 2,819psi

MD: 7,623'
INC: 35.75°
AZM: 354.46°
TVD: 6,548.57'
VS: 1,128.88'

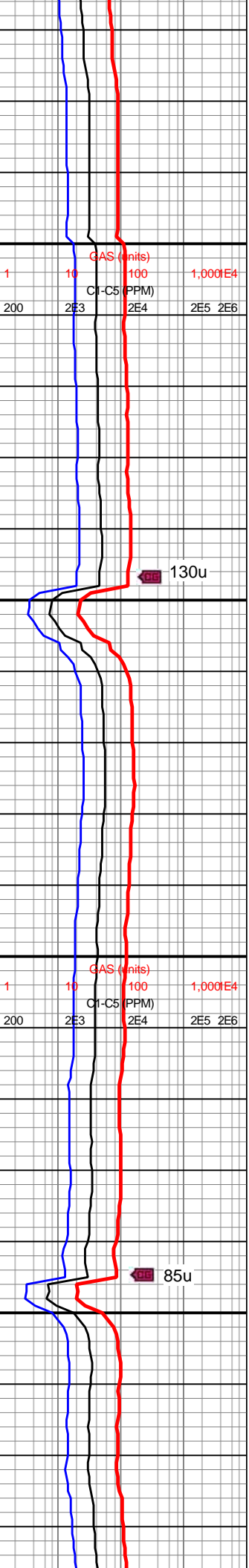
7,650

KOP
7,700'MD / 6,611'TVD

MD: 7,718'
INC: 35.46°
AZM: 8.19°
TVD: 6,625.93'
VS: 1,156.87'

7,750

MW IN: 9.5
VIS IN: 52
MW OUT: 9.5+
VIS OUT: 52



95% SS: lt gy-med gy,
occ wht-med gy, hd frm,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz, wk-mod
calc; 5% SH: med gy-dk
gy, sb ang-tab, frm-hrd,
silty-sl abrsv, suc ip,
p-mod fiss, grdg to slt

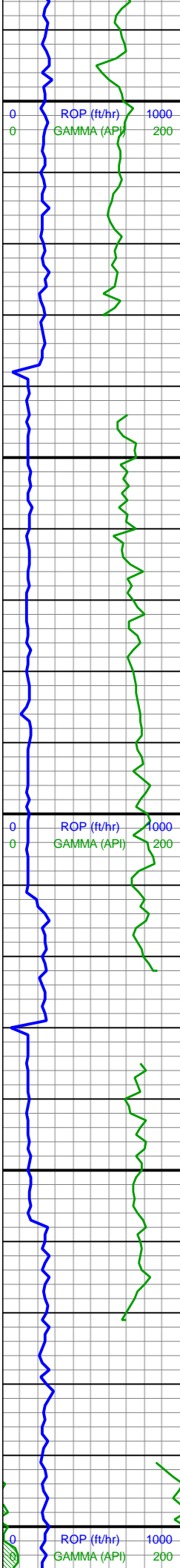


100% SS: lt gy-med gy,
occ wht-med gy, hd frm,
rnd-sb rnd grns in cons
mtx, tr slt mtx, w srt, vf gr,
abnt intbd qtz, wk-mod
calc



100% SS: lt gy-med gy,
occ wht-med gy, hd frm





WOB: 10klbs
RPM: 100
SPM: 202
SPP: 3,456psi

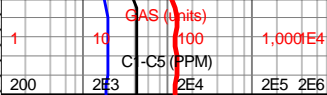
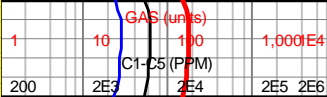
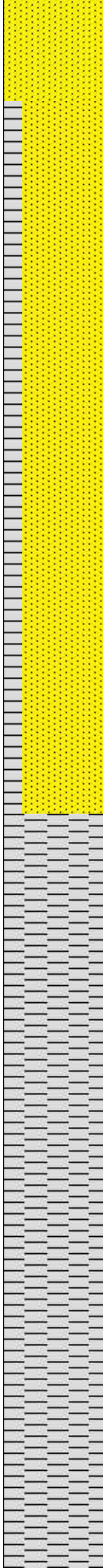
MD: 7,812'
INC: 36.29°
AZM: 15.63°
TVD: 6,702.14'
VS: 1,193.12'

MD: 7,907'
INC: 37.67°
AZM: 14.69°
TVD: 6,778.02'
VS: 1,233.13'

MW IN: 9.5+
VIS IN: 58
MW OUT:
9.5+
VIS OUT: 54

Sharon Springs
7,994'MD / 6,847'TVD

WOB: 8.8klbs
RPM: 100



154u

Check Shot

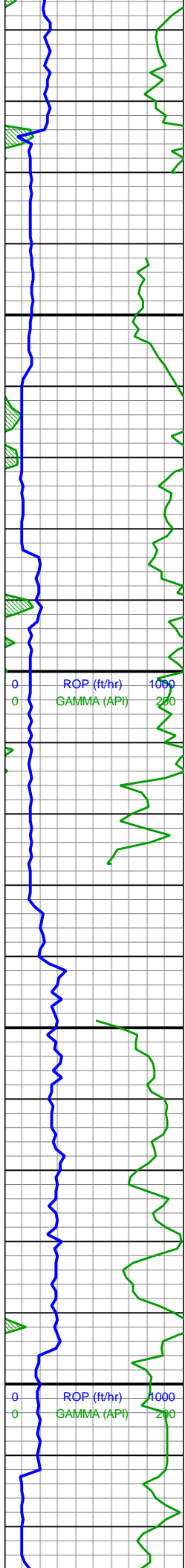
147u

occ wht-med gy, rd-fm, rnd-sb rnd grns in cons mtx, tr slt mtx, w srt ip, wk-mod calc, vf gr, occ intbd qtz

80% SS: lt gy-med gy, occ wht-med gy, hd-frm, rnd-sb rnd grns in cons mtx, tr slt mtx, w srt, vf gr, abnt intbd qtz, wk-mod calc; 50% SH: med gy-dk gy, sb ang-tab, frm-hrd, slty-sl abrsv, suc ip, p-mod fiss, grdg to sltst

100% SH: med gy-dk gy, sb ang-tab, frm-hrd, slty-sl abrsv, mod suc, mod fiss, grdg to sltst, non-calc





SPM: 202
SPP: 3,461psi

MD: 8,002'
INC: 36.88°
AZM: 25.55°
TVD: 6,853.7'
VS: 1,276.64'

MD: 8,096'
INC: 40.48°
AZM: 40.07°
TVD: 6,927.22'
VS: 1,328.38'

Niobrara A
8,125'MD / 6,948'TVD

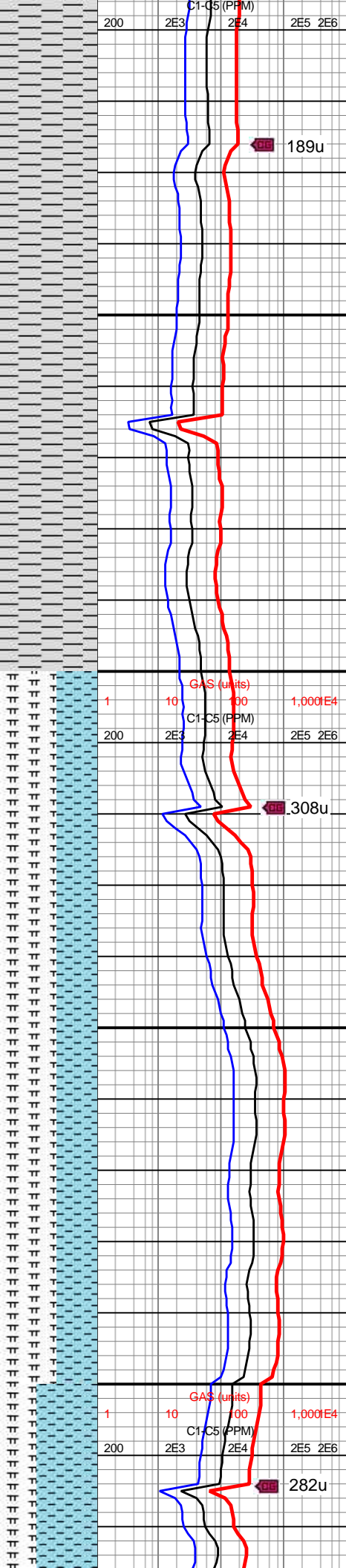
MW IN: 9.5
VIS IN: 59
MW OUT: 9.5+
VIS OUT: 56

Niobrara A Base
8,154'MD / 6,969'TVD

MD: 8,190'
INC: 47.01°
AZM: 48.38°
TVD: 6,995.15'
VS: 1,390.64'

Niobrara B
8,192'MD / 6,996'TVD

WOB: 17.5klbs
RPM: 101
SPM: 202
SPP: 3,647psi



189u

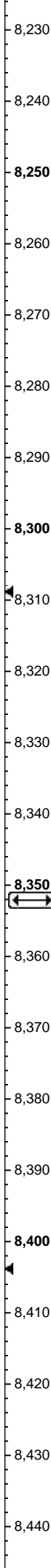
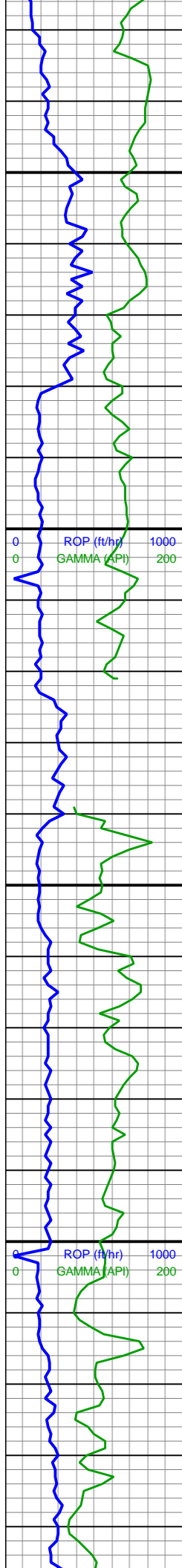
308u

282u

100% SH: med gy-dk gy,
sb ang-tab, frm-hrd,
silty-sl abrsv, mod suc,
mod fiss, grdg to sltst,
non-calc

60% MRLST: v dk gy, gy
ip, mot, frm-sl hd,
tab-blky, slty tex, tr cal
incl, vf CHK lam, hi calc;
40% CHK: lt brn-offwht,
gyshbn ip, fri-sme frm, sb
blky-sb ang-sb rnd, rthy
tex, vugy, com intbdd
MRLST





MD: 8,285'
INC: 51.49°
AZM: 58.23°
TVD: 7,057.24'
VS: 1,461.85'



Niobrara C
8,351'MD / 7,096'TVD

MD: 8,379'
INC: 57.11°
AZM: 64.31°
TVD: 7,112.1'
VS: 1,538.09'

WOB: 14.7klbs
RPM: 100
SPM: 202
SPP: 3,693psi

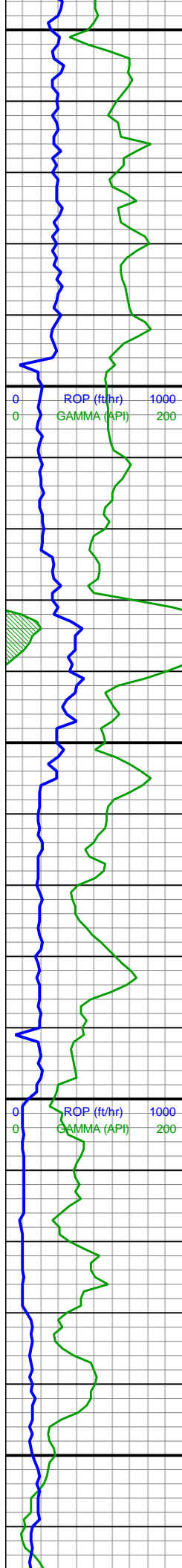


60% CHK: lt brn-offwht, gyshbn ip, fri-sme frm, sb blk-y-sb ang-sb rnd, rthy tex, vugy, com intbdd MRLST; 40% MRLST: v dk gy, gy ip, mot, frm-sl hd, tab-blky, slty tex, tr cal incl, vf CHK lam, hi calc



50% MRLST: v dk gy, gy ip, mot, frm-sl hd, tab-blky, slty tex, tr cal incl, vf CHK lam, hi calc; 50% CHK: lt brn-offwht, gyshbn ip, fri-sme frm, sb blk-y-sb ang-sb rnd, rthy tex, vugy, com intbdd MRLST





8,450
8,460
8,470
8,480
8,490
8,500
8,510
8,520
8,530
8,540
8,550
8,560
8,570
8,580
8,590
8,600
8,610
8,620
8,630
8,640
8,650
8,660

MD: 8,474'
INC: 62.79°
AZM: 68.14°
TVD: 7,159.67'
VS: 1,619.88'

MIN DEPT 04/26/2019

MW IN: 9.5
VIS IN: 61
MW OUT: 9.5+
VIS OUT: 61

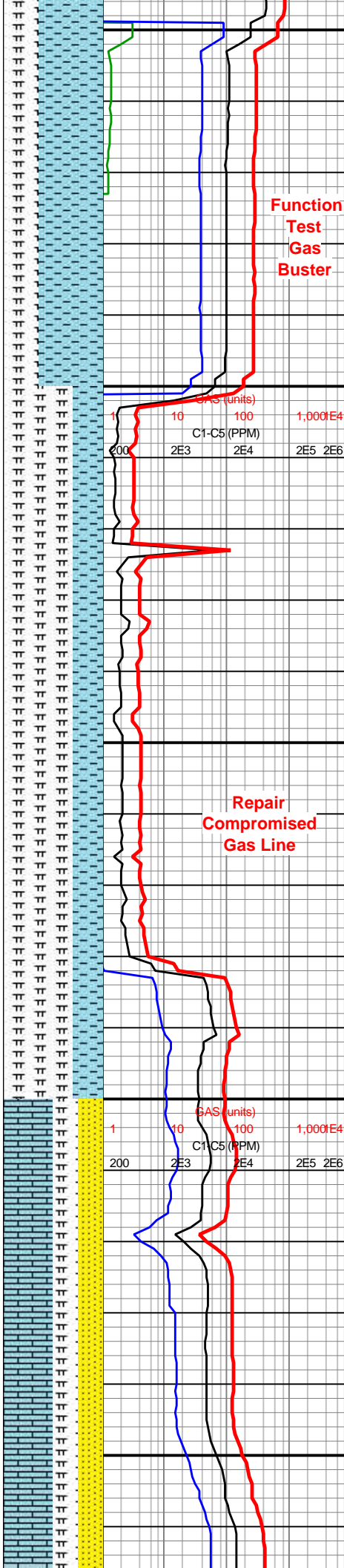
MD: 8,568'
INC: 68.7°
AZM: 72.67°
TVD: 7,198.28'
VS: 1,704.28'

WOB: 17.6klbs
RPM: 100
SPM: 200
SPP: 3,731psi

MW IN: 9.5
VIS IN: 59
MW OUT: 9.5
VIS OUT: 59

 **Ft Hayes**
8,646'MD / 7,222'TVD

MD: 8,662'
INC: 75.48°
AZM: 88.22°
TVD: 7,222.00'



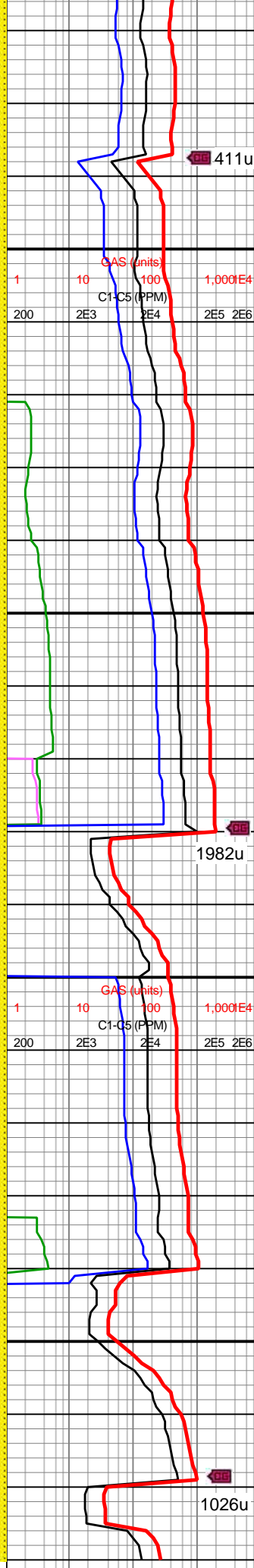
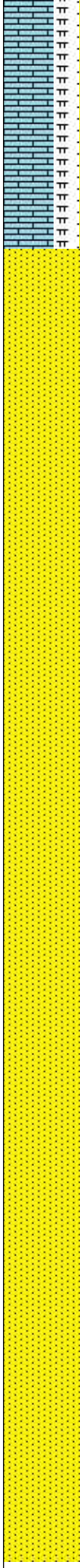
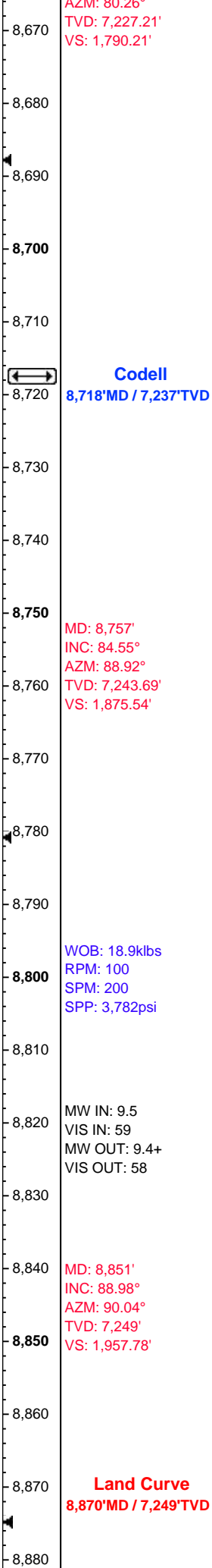
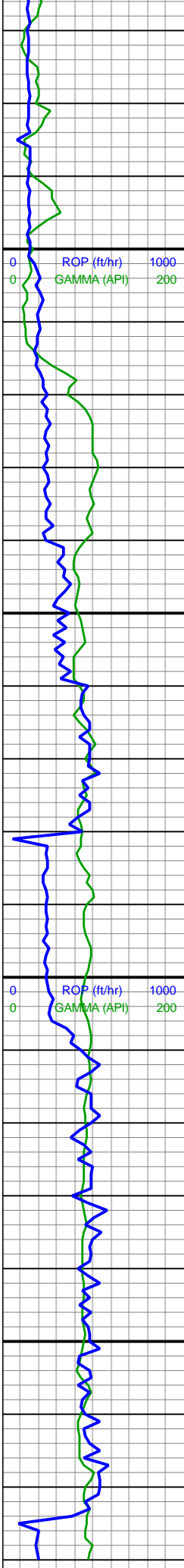
**Function
Test
Gas
Buster**

**Repair
Compromised
Gas Line**

65% CHK: lt brn-offwht, gyshbn ip, fri-sme frm, sb blk-y-sb ang-sb rnd, rthy tex, vugy, com intbdd MRLST; 35% MRLST: v dk gy, gy ip, mot, frm-sl hd, tab-blky, slty tex, tr cal incl, vf CHK lam, hi calc

70% MRLST: v dk gy, gy ip, mot, frm-sl hd, tab-blky, slty tex, tr cal incl, vf CHK lam, hi calc; 30% CHK: lt brn-offwht, gyshbn ip, fri-sme frm, sb blk-y-sb ang-sb rnd, rthy tex, vugy, com intbdd MRLST

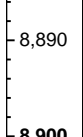
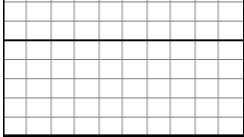
50% LS: offwht to lt gry, dk gry ip, mas, occ slty-sdy, dolc ip; 25% MRLST



MRLST: v dk gy, gy lp, mot, frm-sl hd, tab-blky, slty tex, tr cal incl, vf CHK lam, hi calc; 25% SS: gyshbn-lt brn, mot med brn, vf-f gr, sb ang-sb rd, sb frm-frm, mod srted, grn sup, silc cmt, tr pp mic pyr nod, sme med gy-dk gy gr sup ss clus, mod calc

100% SS: gyshbn-lt brn, mot med brn, vf-f gr, sb ang-sb rd, sb frm-frm, mod srted, grn sup, silc cmt, tr pp mic pyr nod, sme med gy-dk gy gr sup ss clus, mod calc





End of Vertical
Log
Continued on
Horizontal Log

