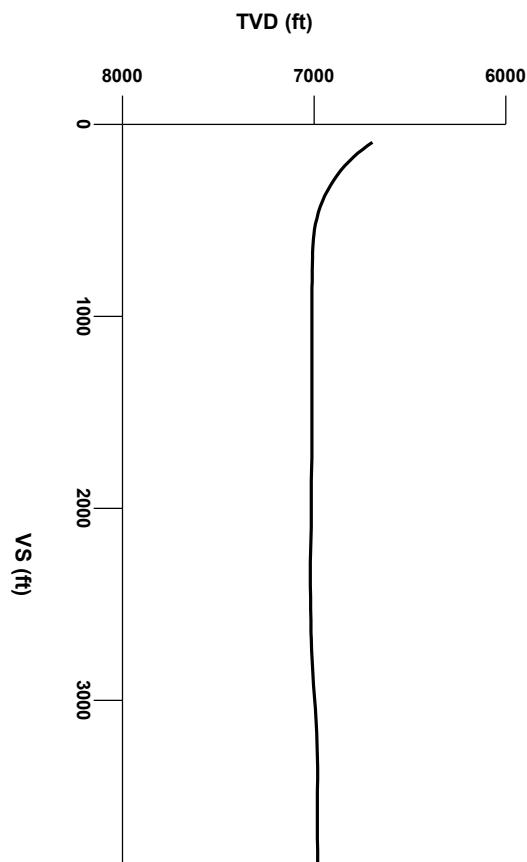
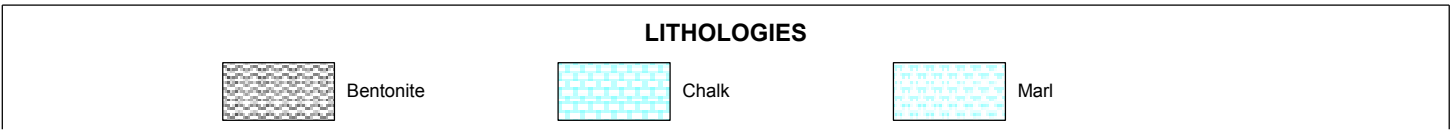
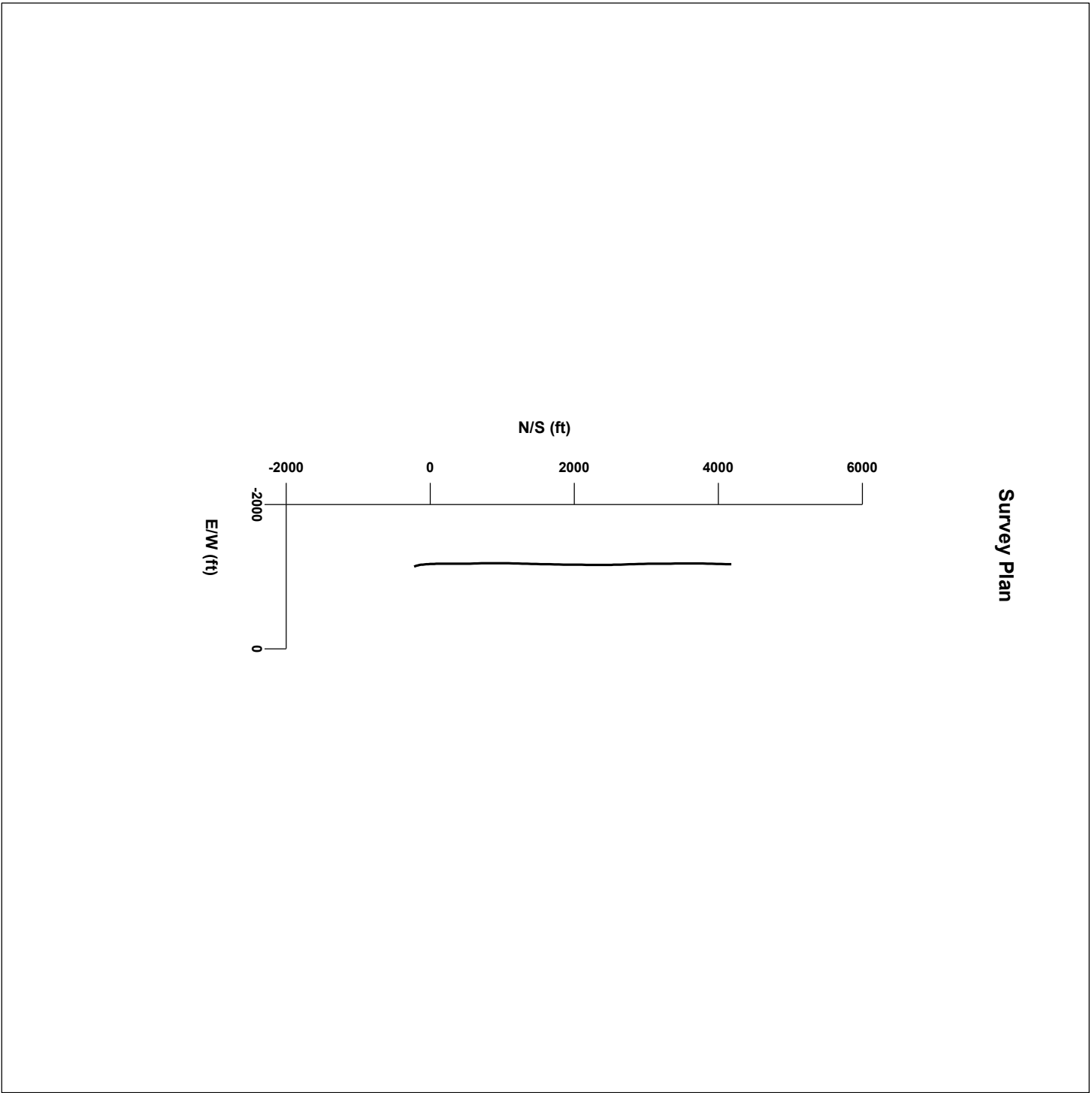
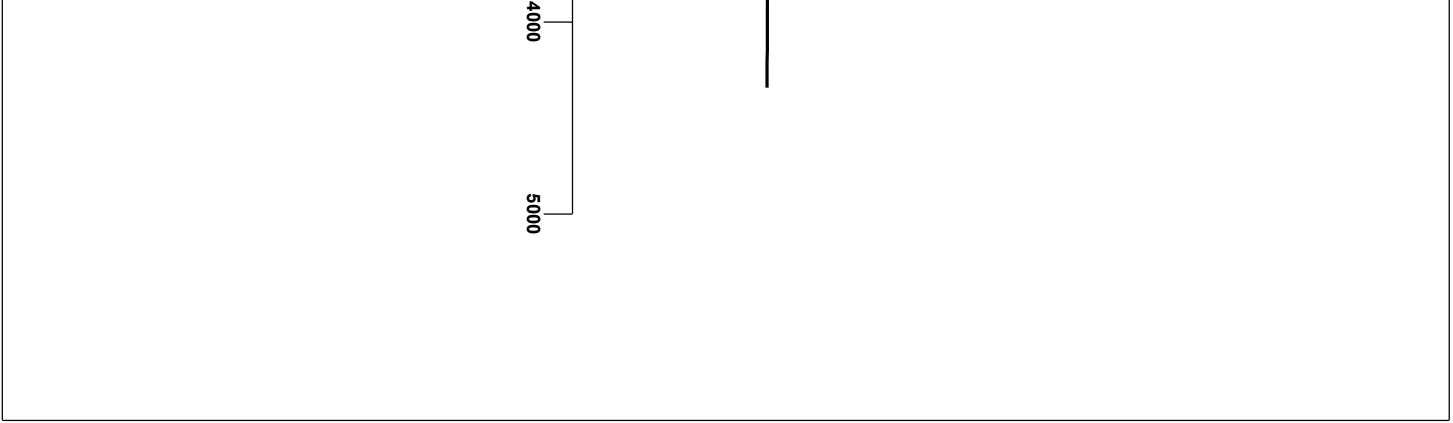


LOG created using L PLOT VH Version 3.0, February 24, 2012, Copyright (C) 1999-2009 Pason Systems Corp.

OPERATOR: ENCANA OIL & GAS (USA) INC.
WELL: GRATTAN 4B-30H
LOCATION: SESE S30 T2N-R64W
COUNTY: WELD
STATE: COLORADO
SPOT: 622' FSL, 488' FEL
ELEVATION: 4935' GL, 4948' KB
FIELD: WATTENBERG
SPUD DATE: 02/10/12 @ 0900 HRS
TD DATE: 02/23/12 @ 1730 HRS
DATES LOGGED: 02/12/12 - 02/23/12
DEPTHS LOGGED: 1022' - 11408'
LOGGERS: MICHAEL ANDERSON
DRILLING FLUID: H2O, LSND
DRILLING RIG: ENSIGN #135
API: 05-123-34362
LOG TYPE: HORIZONTAL
SCALE: 1:240 (5 inches per 100 feet)
REMARKS: Continued from Grattan 4B-30H Vertical.



Survey Elevation



Shale

Silty Shale

MODIFIERS

B

Bentonite

F

Fossils

P

Pyrite

ENGINEERING SYMBOLS

▲

Bit Change

◻

Connection

↖

Arrow

▲

Casing

⊗

Connection Gas

⬇

Midnight Depth

▲

Casing

⊗

Gas Show

↗

Arrow

BAR SYMBOLS

Rotating

Sliding

SLIDE/ROTATE

40R

35R

48R

6.0

ROP data from Pason

ROP

MIN/FT 20

REFER TO VERTICAL LOG

Grattan 4B-30H_Vertical FOR INC < 36.0°

30' Lagged Sample Collection

GAS

0

UNITS

1000

C1

PPM

100000

C2

PPM

100000

C3

PPM

100000

C4

PPM

100000

DEPTH (FEET)

6850

60

70

80

90

6900

10

20

30

40

50

60

IN 38/10.5 OUT 39/10.5

02/17/12

CUTTINGS LITHOLOGY

Gamma data from Cathedral

50' Overlap from vertical log

MD 6840' TVD 6696.80' INC 33.8° AZM 338.9°

MD 6904' TVD 6723.04' INC 38.3° AZM 344.5°

MD 6935' TVD 6748.55' INC 40.8° AZM 347.0°

MD 6960' TVD 6774.00' INC 43.2° AZM 350.0°

Logger Top Sh @ 6980' MD/ 68

Logging of the curve/horizontal by Columbine Logging Inc.

SLTYSH: pred it gy, sme gy, firm, sbply-sbblky, rthy-gt tex, arg-sily mtx, v sl calc, occ bent frag w/ dism pyr, spec bri yel-gold mnrl flor, sl sting mod bri blwn mky cut

SLTYSH: pred it gy, sme gy, firm, sbply-sbblky, rthy-gt tex, arg-sily mtx, v sl calc, BENT: pred wh, yel, sft, sbply, wxy tex, cly mtx, dism pyr thru, spec bri yel-gold mnrl flor, sl sting mod bri blwn mky cut

SLTYSH: pred pily-fis, sme sb mtx, SH: dk gy, arg mtx, non ca spec bri gr-yel-cut

TVD

ft

7500

6700

50

API 150

GAMMA RAY

122

89

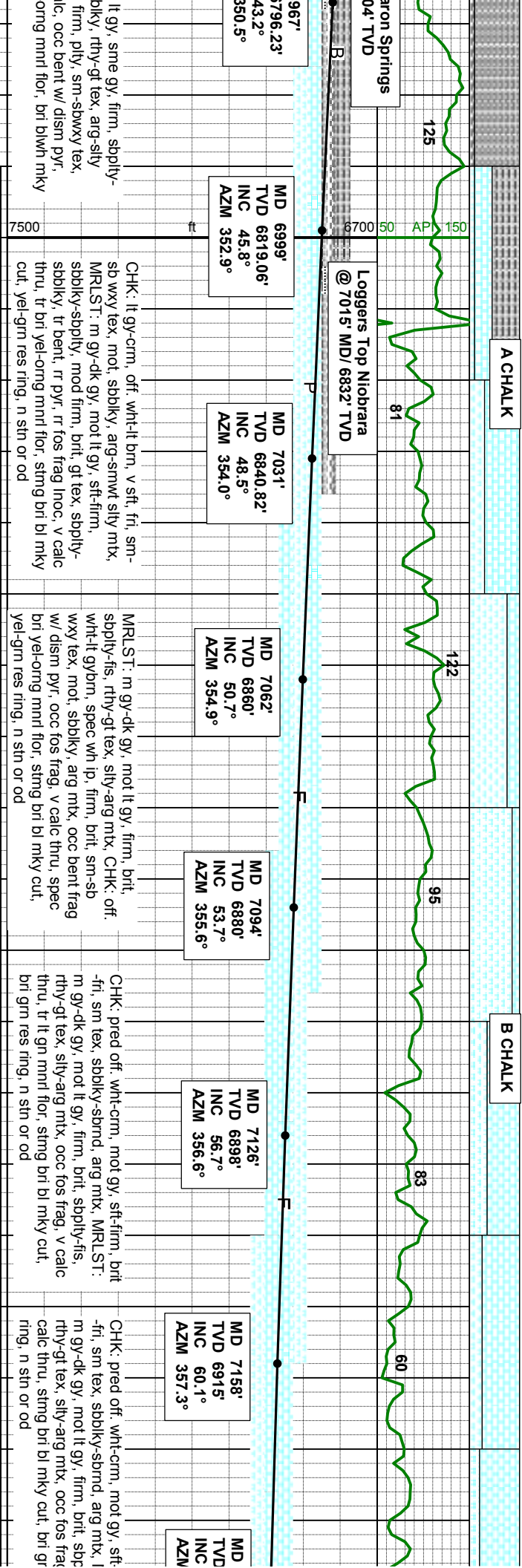
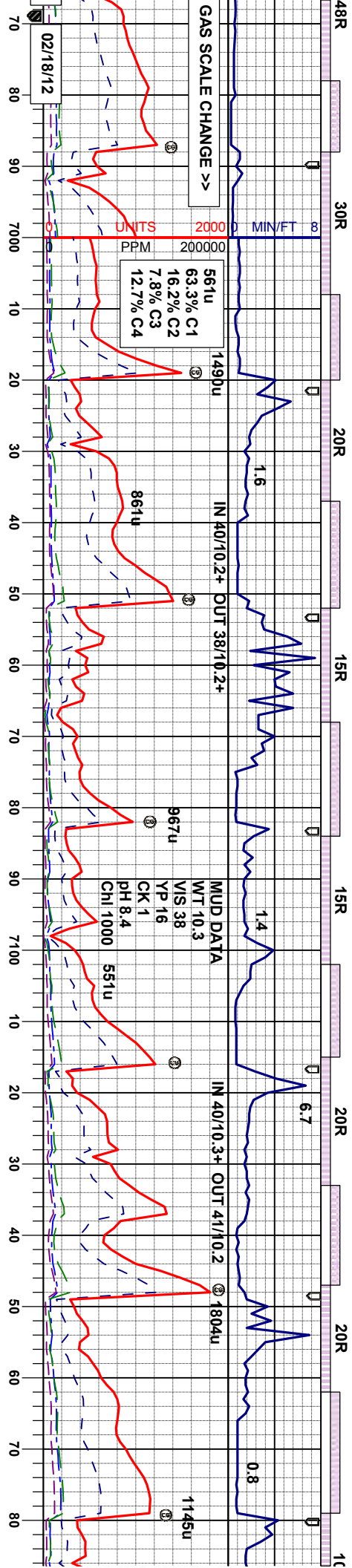
93

OIL SHOW

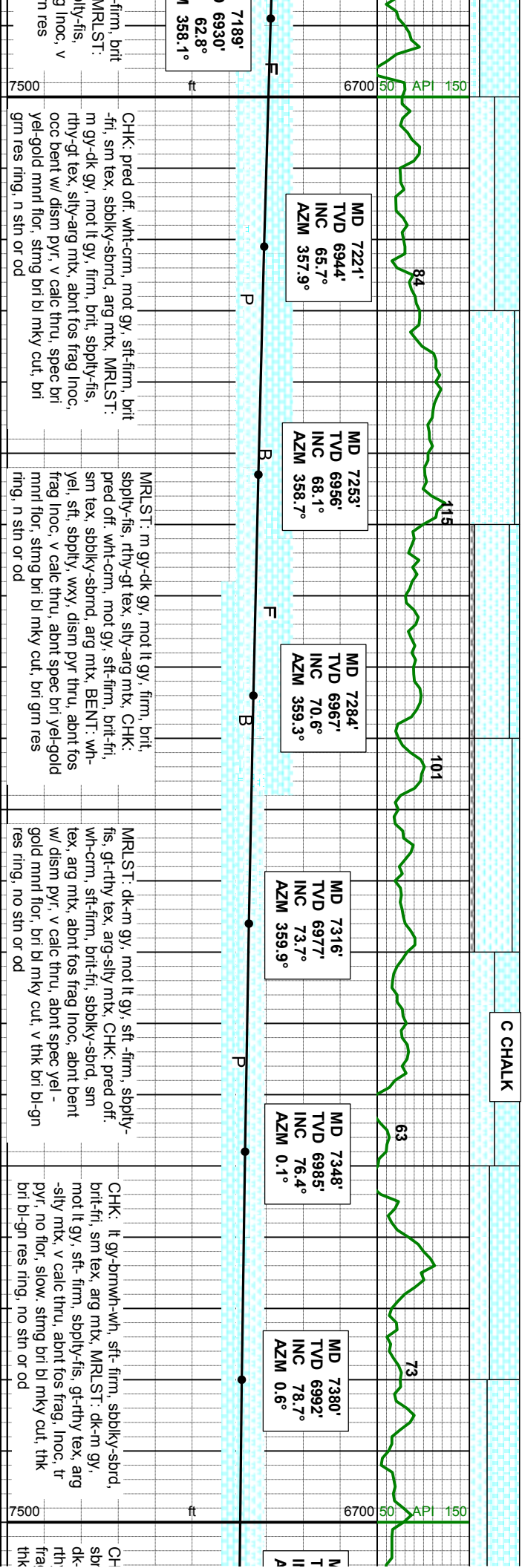
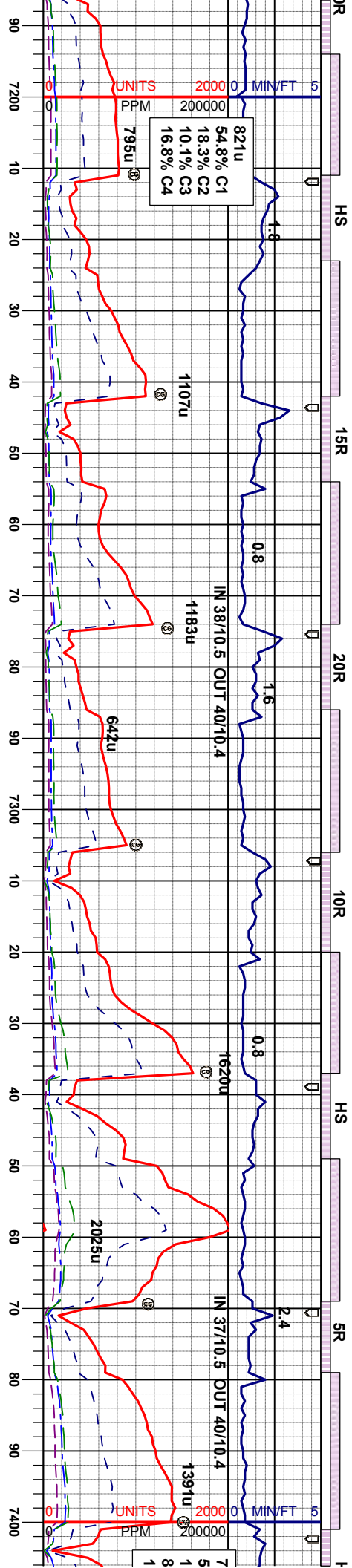
TF G

MODERATE

SAMPLE PHOTOS

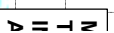
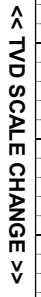
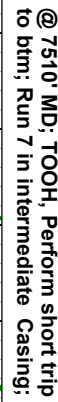


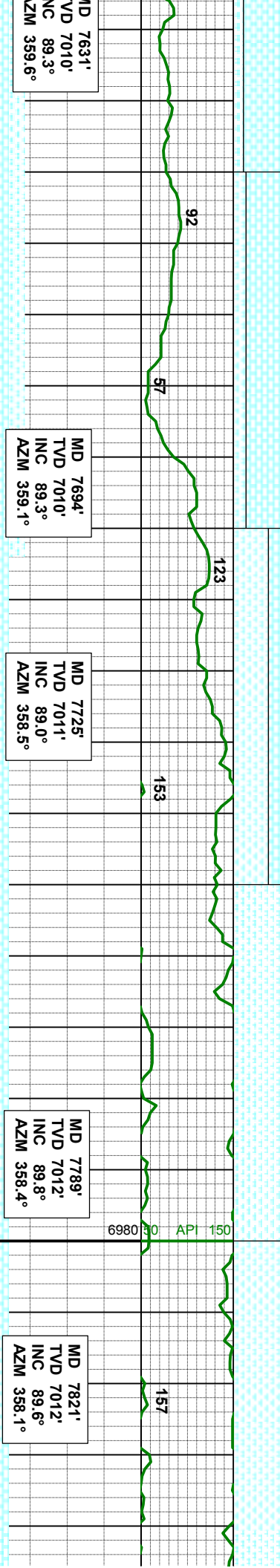
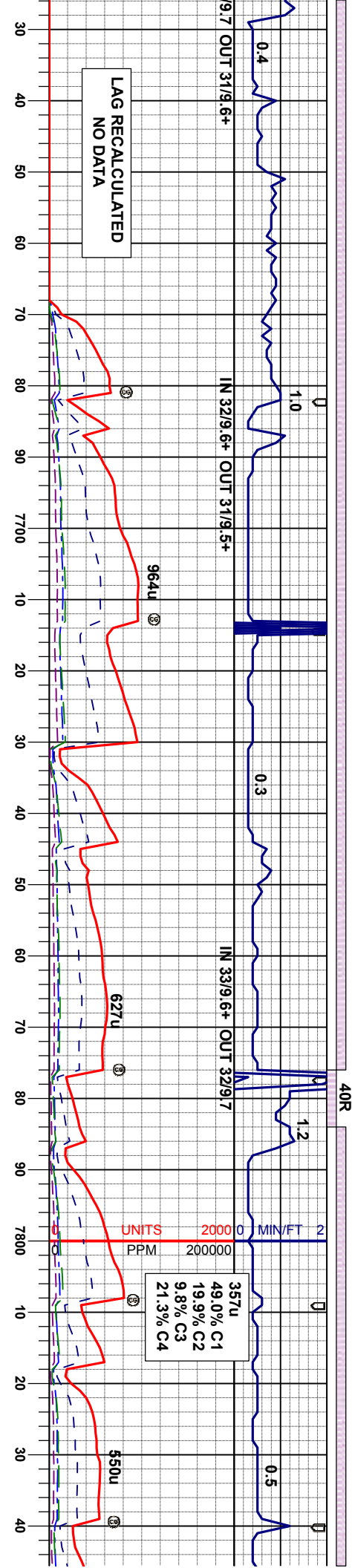
GOOD



GOOD







mod sft -firm, sbblky-sbrd, gt-smwxy tex, arg mtk, sft -firm, sbply-fis, v calc thru, tr fos, mod fast string smwt bri bl mky cut, mod thk yel-gn res ring, no stn or od

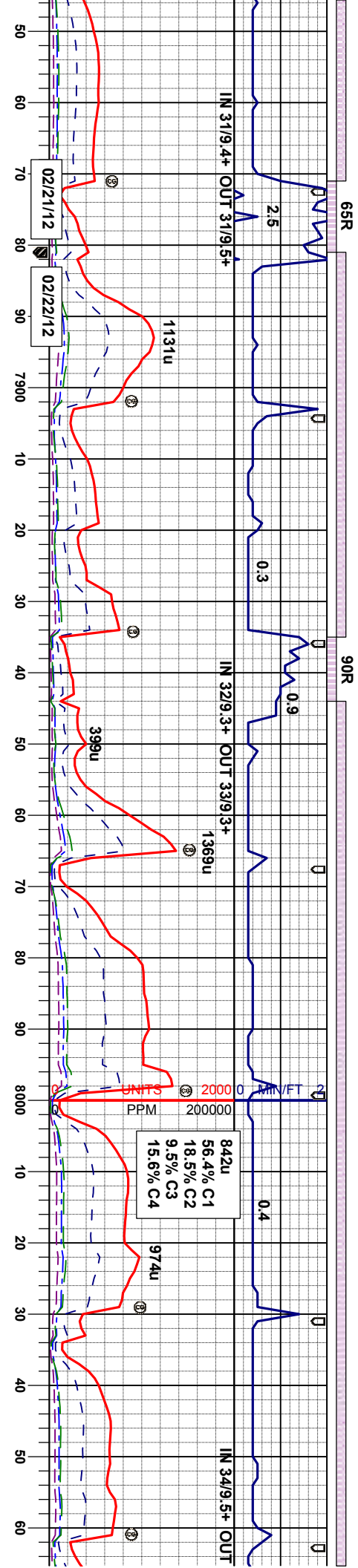
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MRLST: dk-m gy, mod sft -firm, sbply-fissile, gt-smwt rthy tex, arg-sily mtk, CHK: wh-crm, ltybrn-gybrn, sft -mod firm, sbblky, gt-sm wxy tex, arg mtk, v calc thru, fos frag lnoc, tr pyr, mod fast string smwt bri bl mky cut, mod thk yel-gn res ring, no stn or od

MRLST: dk-m gy, mod sft -firm, sbply-fissile, gt-smwt rthy tex, arg-sily mtk, CHK: wh-crm, ltybrn-gybrn, sft -mod firm, sbblky, gt-sm wxy tex, arg mtk, v calc thru, fos frag lnoc, mod fast string smwt bri bl mky cut, v thin pale yel-gn res ring, no stn or od

GOOD





MD 7885'
TVD 7012'
INC 90.5°
AZM 359.0°

MD 7948'
TVD 7012'
INC 90.0°
AZM 0.3°

MD 8011'
TVD 7012'
INC 90.2°
AZM 359.9°

MRLST: dk-m gy, mod sft- firm, sbply-
fissile, gt-smwt rthy tex, arg-sily mtx, CHK:
wh-crm, ltgybrn-gybrn, sft- mod firm,
sbbiky, gt-sm wxy tex, arg mtx, v calc thru,
fos frag inoc, rr pyr, dul spec omg mnt flr,
mod fast sting smwt bri bl milky cut, mod
thk pale yel-gn res ring, no sin or od

CHK: wh-crm, ltgybrn-gybrn, sft- mod firm,
sbbiky, gt-sm wxy tex, arg mtx, MRLST: dk-
m gy, mod sft- firm, sbply- fissile, gt-smwt
rthy tex, arg-sily mtx, v calc thru, abnt fos
frag inoc, rr pyr, dul spec omg mnt flr,
mod fast sting smwt bri bl milky cut, v thin
pale yel-gn res ring, no sin or od

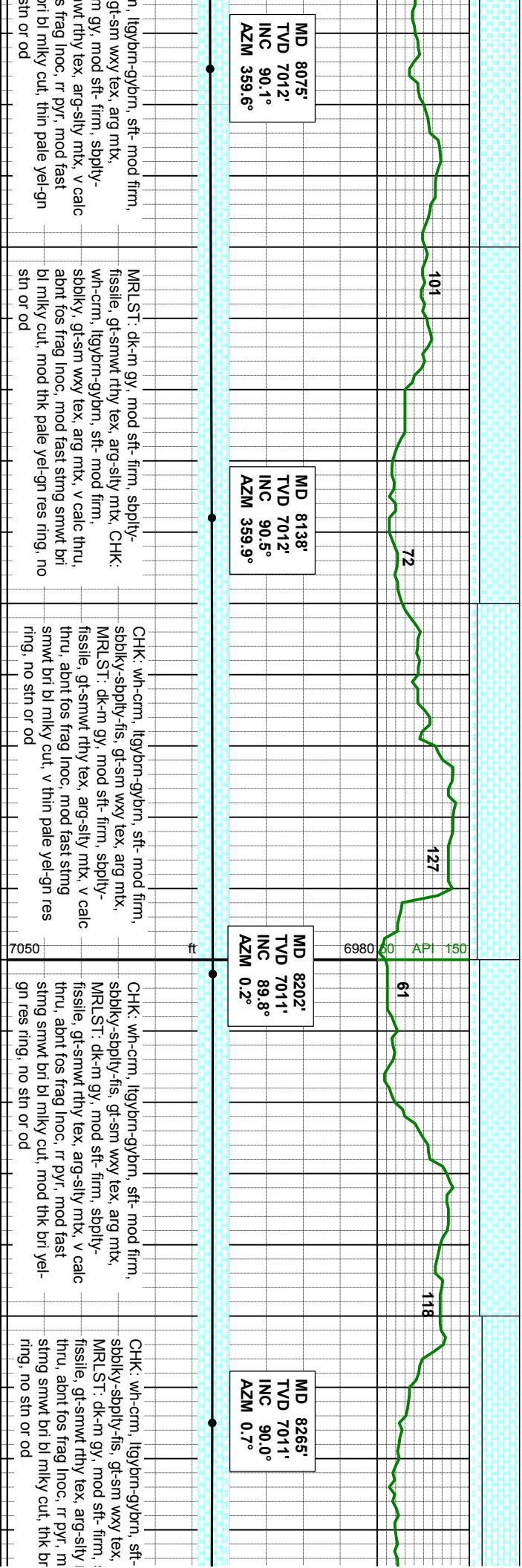
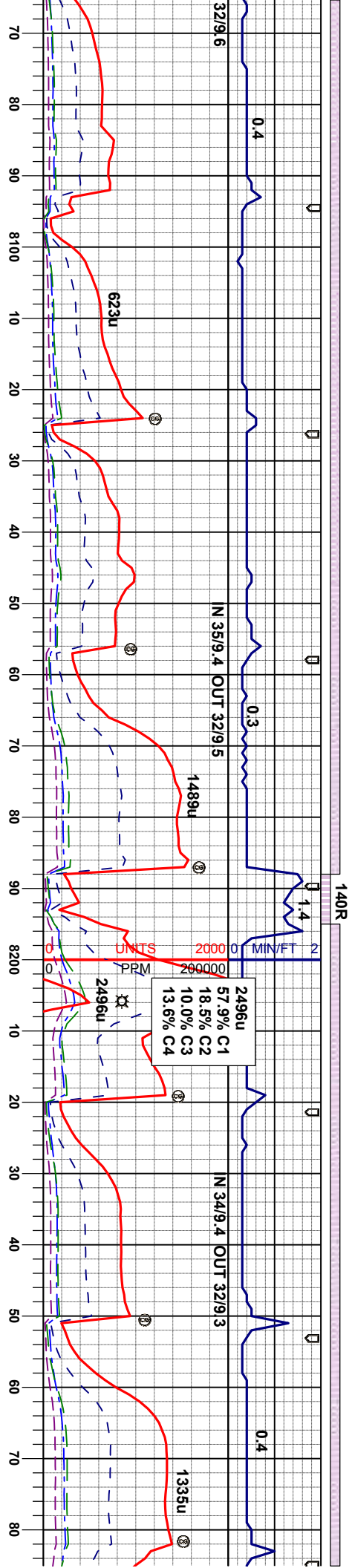
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m gy, mod sft- firm, sbply- fissile, gt-smwt
rthy tex, arg-sily mtx, v calc thru, abnt fos
frag inoc, rr pyr, mod fast sting smwt bri bl
milky cut, v thin pale yel-gn res ring, no sin
or od

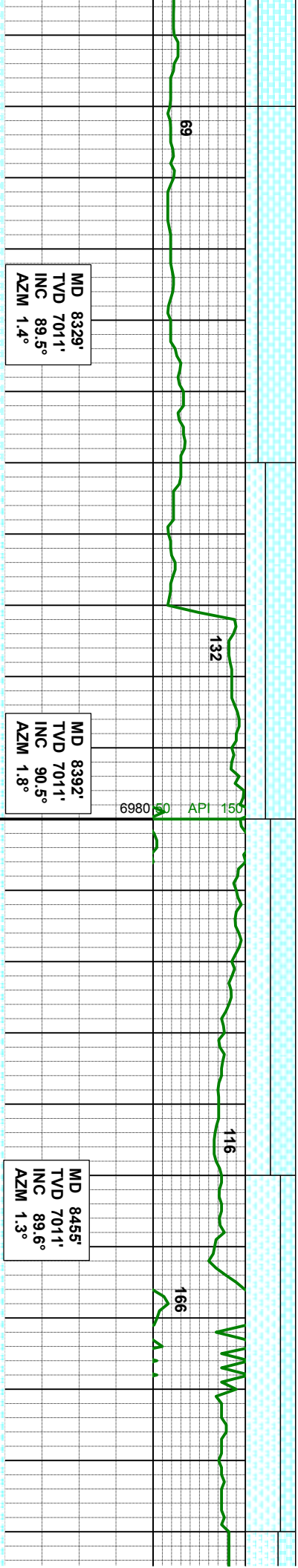
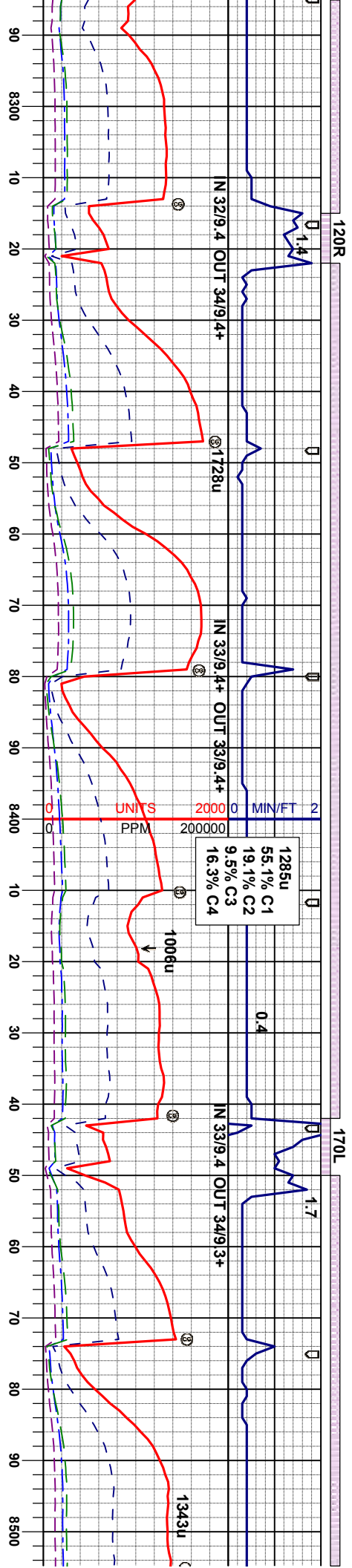
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rthy tex, arg-sily mtx, v calc thru, abnt fos
frag inoc, rr pyr, mod fast sting smwt bri bl
milky cut, v thin pale yel-gn res ring, no sin
or od

CHK: wh-crm, ltgybrn-gybrn, sft- mod firm,
sbbiky, gt-sm wxy tex, arg mtx, MRLST: dk-
m gy, mod sft- firm, sbply- fissile, gt-smwt
rthy tex, arg-sily mtx, v calc thru, abnt fos
frag inoc, rr pyr, mod fast sting smwt bri bl
milky cut, v thin pale yel-gn res ring, no sin
or od

GOOD







mod firm, arg mtx, ssply-
mod fast
smwt bri bl mky cut, thk bri yel-gn res ring, no stn or od

CHK: wh-crm, ltgybrn-gybrn, sft- mod firm, sbbkly-spply, gt-sm wxy tex, arg mtx, MRLST: dk-m gy, mod sft- firm, sbbkly-spply-
fissile, gt-smwt rthy tex, arg-sily mtx, v calc thru, abnt fos frag inoc, mod fast sting smwt bri bl mky cut, thk bri yel-gn res ring, no stn or od

CHK: wh-crm, ltgybrn-gybrn, sft- mod firm, sbbkly-spply, gt-sm wxy tex, arg mtx, MRLST: dk-m gy, mod sft- firm, sbbkly-spply-
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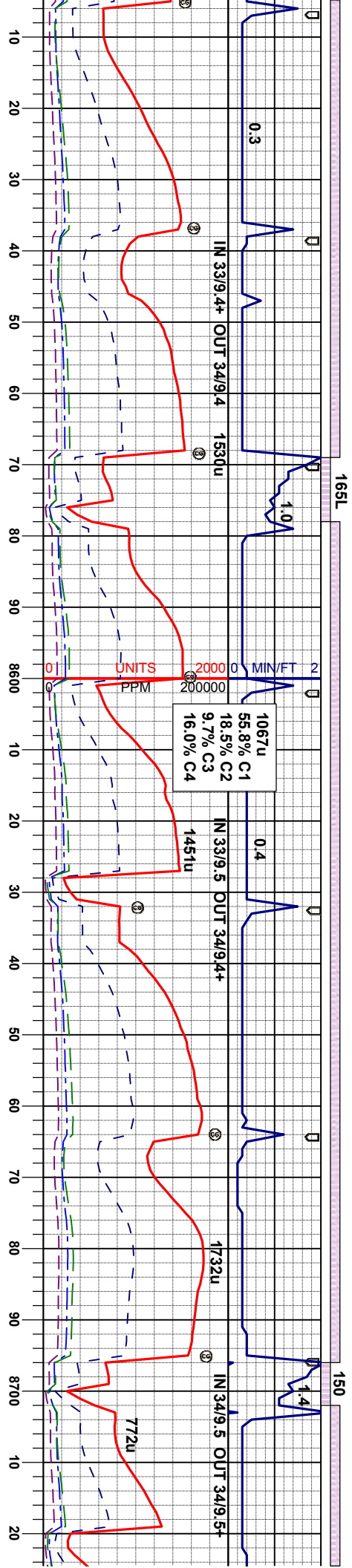
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MRLST: m gy-dk gy, v dkgybrn, spec wh ip, firm, brit, spply-sbbkly, gt-rthy tex, arg-sily mtx, CHK: ltgybrn-gybrn, rr crm, firm, brit-smwt fri, sbbkly-spply, sm-wxy tex, arg mtx, v calc thru, occ fos frag inoc, no flou, mod fast si sting mod bri bl mky cut, thk bri yel-gn res ring, no stn or od

GOOD

GOOD





MD 8519'
TVD 7011'
INC 90.5°
AZM 1.5°

MD 8582'
TVD 7011'
INC 89.2°
AZM 1.3°

MD 8646'
TVD 7012'
INC 89.8°
AZM 1.5°

MD 8709'
TVD 7013'
INC 88.4°
AZM 1.4°

MRLST: m gy-dk gy, v dkgybm, spec wh ip, brt, sbply-sbply, gt-rthy tex, arg-sily mx, CHK: It gybm-gybm, r crm, firm, brt-smwt fri, sbply-sbply, sm-wxy tex, arg tx, v calc thru, occ fos frag Inoc, tr pyr, r bent, spec bri yel-dul orng mnrt flr, mod fast sl stmg mod bri bl mlky cut, thk bri yel-gn res ring, no stn or od

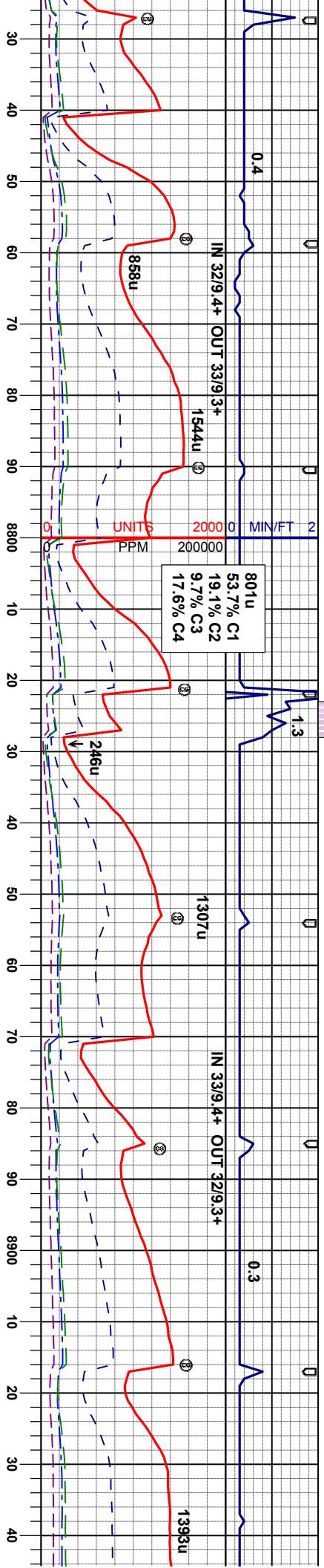
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MRLST: m gy-dk gy, v dkgybm, spec wh ip, firm, brt, sbply-sbply, gt-rthy tex, arg-sily mx, CHK: It gybm-gybm, occ crm, firm, brt-smwt fri, sbply-sbply, sm-wxy tex, arg tx, v calc thru, occ fos frag Inoc, tr pyr, r bent, spec bri yel-dul orng mnrt flr, mod fast sl stmg mod bri bl mlky cut, thk bri yel-gn res ring, no stn or od

MRLST: dk gy, dkgybm, spec wh ip, firm, brt, sbply-sbply, gt tex, arg-sily mx, CHK: gybm, firm, brt-smwt fri, sbply-sbply, sm-wxy tex, arg mx, v calc thru, freq fos frag Inoc, dul orng flr, thk stmg bri bl mlky cut, bri yel-gn res ring, no stn or od

MRLST: dk gy, dkgyb brt, sbply-sbply, gt CHK: gybm, firm, brt-smwt fri, sbply, sm-wxy tex, arg mx, v calc thru, freq fos frag Inoc, dul bl mlky cut, bri yel-gn

GOOD



<< GAMMA SCALE CHANGE >>

MD 8773'
TVD 7014'
INC 88.5°
AZM 0.9°

MD 8836'
TVD 7015'
INC 90.1°
AZM 1.6°

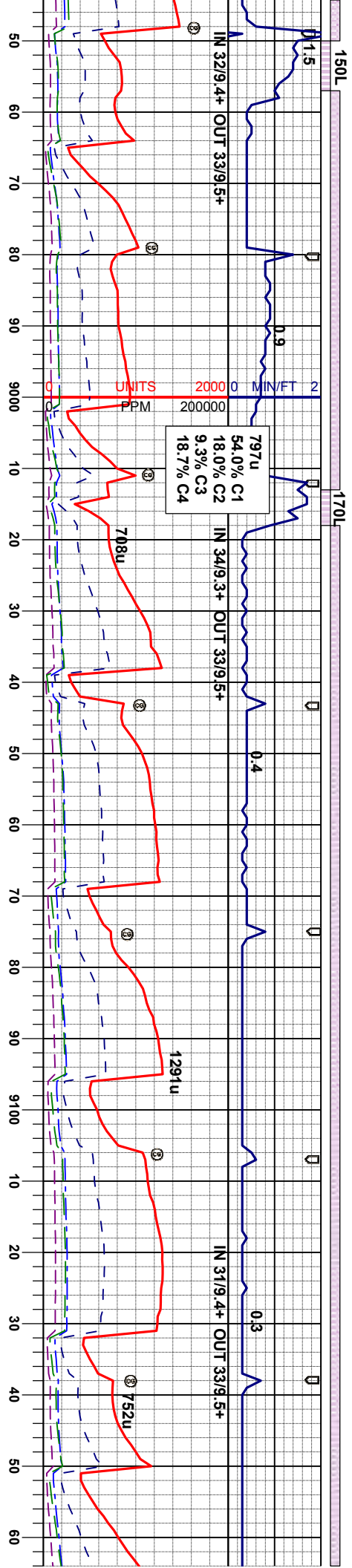
MD 8900'
TVD 7015'
INC 90.9°
AZM 1.4°

MR.LST: dk gy, dkgybrn, spec wh ip, firm, brit, sbply-sbblky, occ fts, gt tex, arg-sily mtb, CHK: gybrn, firm, brit-smwt fri, sbblky-sbply, mot ip, crpxl, sbwxy tex, arg mtb, v calc thru, freq fos frag inoc, dul orng flor, thk stmg bri bl mlky cut, bri yel-gn res ring, no stn or od

MR.LST: dk gy, dkgybrn, spec wh ip, firm, brit, sbply-sbblky, occ fts, gt tex, arg-sily mtb, CHK: gybrn, firm, brit-smwt fri, sbblky-sbply, mot ip, crpxl, sbwxy tex, arg mtb, v calc thru, freq fos frag inoc, no flwr, stmg bri bl mlky cut, bri yel-gn res ring, no stn or od

MR.LST: dk gy-blk, spec wh ip w/ fos frag ip, firm, brit, sbply-sbblky, microxin, gt tex arg-sily mtb, CHK: gybrn, firm, brit sbblky-sbply, mot ip, crpxl, sbwxy tex, arg mtb, calc thru, freq fos frag inoc, rr pyr, rr yel-gr mnt flwr, sl stmg bri bl mlky cut, bri bl-gn res ring, no stn or od

GOOD



MD 8963'
TVD 7014'
INC 89.9°
AZM 1.1°

MD 9026'
TVD 7015'
INC 88.6°
AZM 0.5°

MD 9090'
TVD 7016'
INC 88.7°
AZM 0.7°

MD 9153'
TVD 7018'
INC 88.8°
AZM 0.7°

MRLST: dk gy-blk, spec wh w/ fos frag ip, firm, brit, sbply-sbply, microxin, gt tex, arg sily mtx, CHK: lt gybrn-gybrn, firm, brit sbply-sbply, mot, crpxl, sbwxy tex, arg mtx, calc thru, sme fos frag inoc, rr pyr, rr bri, vel-gn mnt flr, tr dul org flr, sl sting mod bri bl mlky cut, bl-gn res ring, no str or od

MRLST: m gy-dk gy, firm, brit, sbply-sbply, microxin, gt tex, arg-sily mtx, CHK: lt gybrn-gybrn, firm, brit sbply-sbply, mot, crpxl, sbwxy tex, arg mtx, calc thru, tr fos frag inoc, no flr, sl sting mod bri bl mlky cut, bl-gn res ring, no str or od

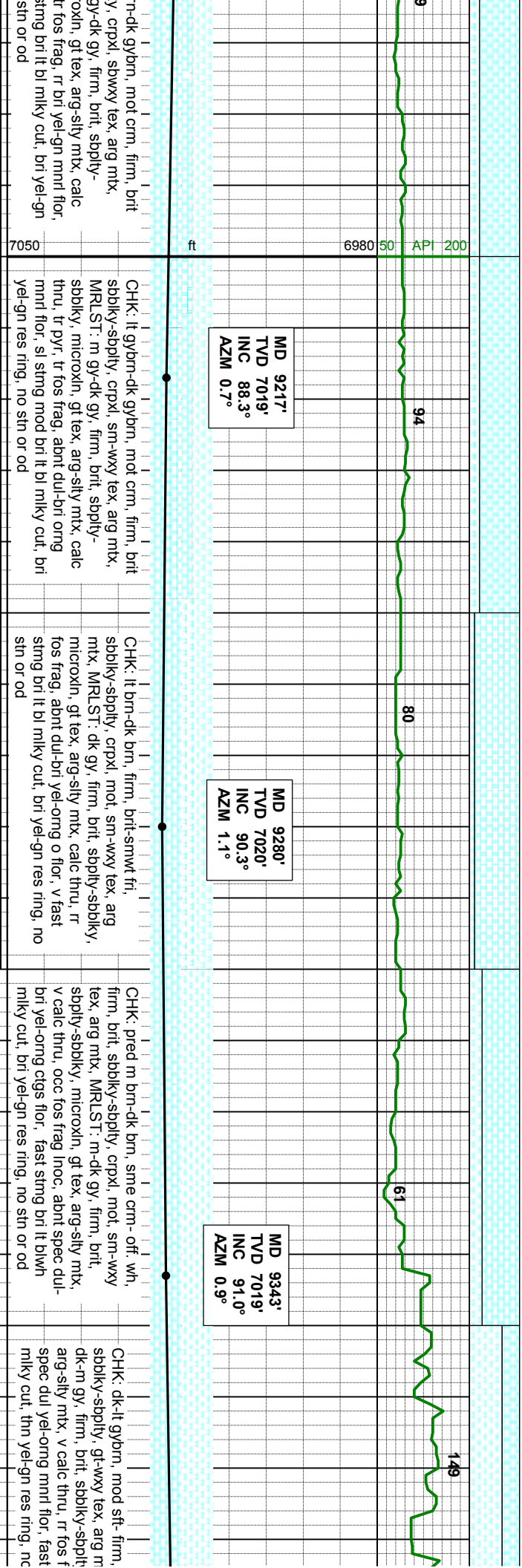
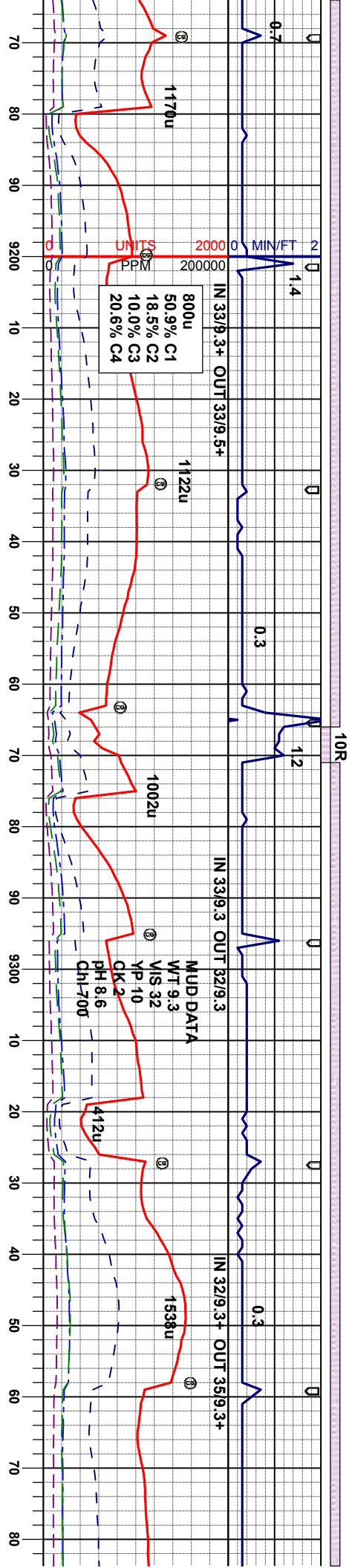
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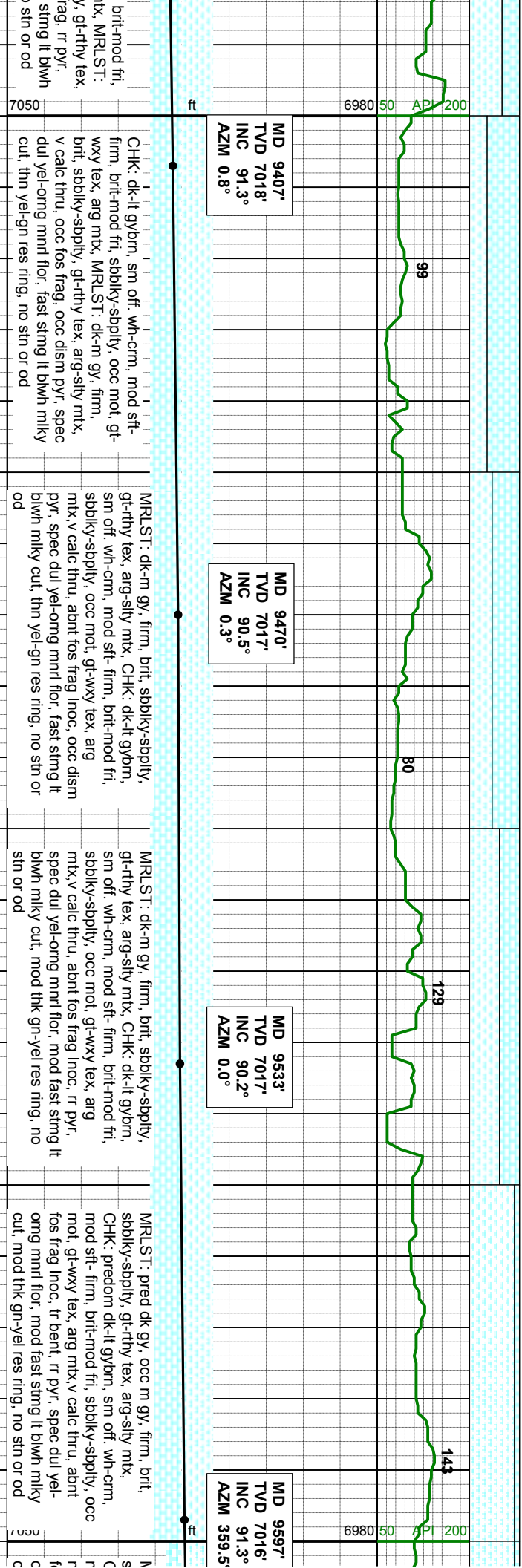
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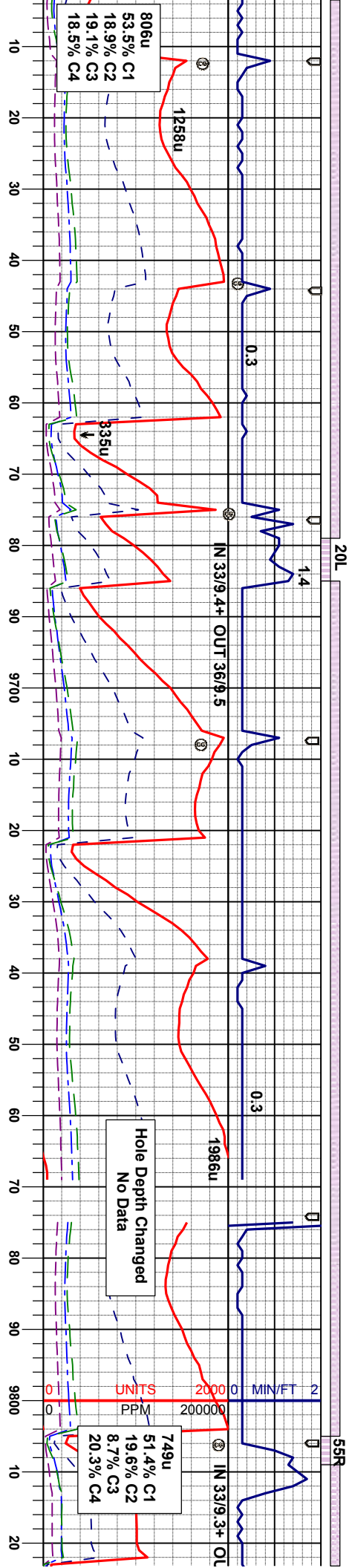
GOOD







MODERATE



MD 9629'
TVD 7015'
INC 91.1°
AZM 359.2°

MD 9692'
TVD 7013'
INC 92.8°
AZM 358.8°

MD 9725'
TVD 7012'
INC 93.0°
AZM 358.8°

MD 9755'
TVD 7010'
INC 92.9°
AZM 358.2°

MD 9819'
TVD 7007'
INC 93.4°
AZM 358.8°

MR.LST: pred dk gy, occ m gy, firm, brit, sbbiky-sbply, gt-rthy tex, arg-sily mtz, CHK: predom dk-it gybm, sm off, wh-crm, mod sft- firm, brit-mod fri, sbbiky-sbply, occ mot, gt-wxy tex, arg mtz, v calc thru, abnt fos frag lnoc, tr bent, rr pyr, spec dul yel-oring mnrl flr, mod fast sting lt blwh milky cut, mod thk gn-yel res ring, no stn or od

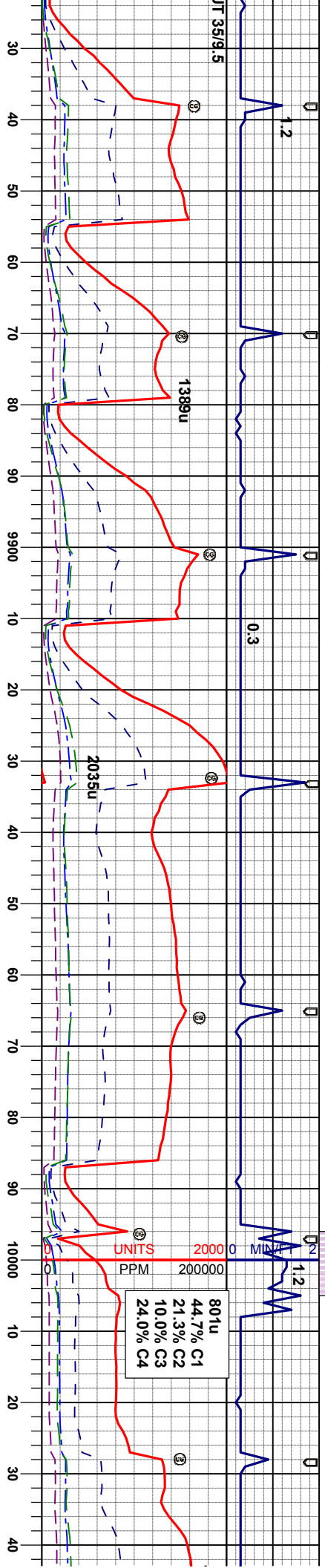
MR.LST: pred dk gy, occ m gy, firm, brit, sbbiky-sbply, gt-rthy tex, arg-sily mtz, CHK: predom dk-it gybm, sm off, wh-crm, mod sft- firm, brit-mod fri, sbbiky-sbply, gt-wxy tex, arg mtz, v calc thru, abnt fos frag lnoc, tr bent, rr pyr, spec dul yel-oring mnrl flr, fast sting lt blwh milky cut, mod thk gn-yel res ring, no stn or od

MR.LST: dk-m gy, firm, brit, sbbiky-sbply, gt-rthy tex, arg-sily mtz, CHK: off, wh-crm, mod sft- firm, brit-mod fri, sbbiky-sbply, gt-wxy tex, arg mtz, v calc thru, abnt fos frag lnoc, tr bent, rr pyr, spec dul yel-oring mnrl flr, fast sting lt blwh milky cut, thk gn-yel res ring, no stn or od

CHK: off, wh-crm, mod sft- firm, brit-mod fri, sbbiky-sbply, gt-wxy tex, arg mtz, MR.LST: dk-m gy, firm, brit, sbbiky-sbply, gt-rthy tex, arg-sily mtz, v calc thru, abnt fos frag lnoc, tr bent, rr pyr, spec dul yel-oring mnrl flr, fast sting lt blwh milky cut, thk gn-yel res ring, no stn or od

CHK: off, wh-crm, m sbbiky-sbply, gt-wxy dk-m gy, firm, brit, s arg-sily mtz, v calc tr bent, rr pyr, spec d immediate sting lt bl res ring, no stn or od

MODERATE



MD 9882'
TVD 7003'
INC 93.5°
AZM 358.0°

MD 9946'
TVD 6999'
INC 94.5°
AZM 357.4°

MD 10009'
TVD 6994'
INC 94.3°
AZM 358.5°

MRLST: dk-m gy, firm, brit, sbblky-sbply, gt-rthy tex, arg-sily mtz, CHK: dk-it gybm, off, wh-crm, mod sft- firm, brit-mod fri, sbblky-sbply-fis, gt-wy tex, arg mtz, v calc thru, abnt fos frag inoc, tr pyr, spec dul yel-orm mnt flr, immediate sting it blwh mlky cut, thk gn-yel res ring, no stn or od

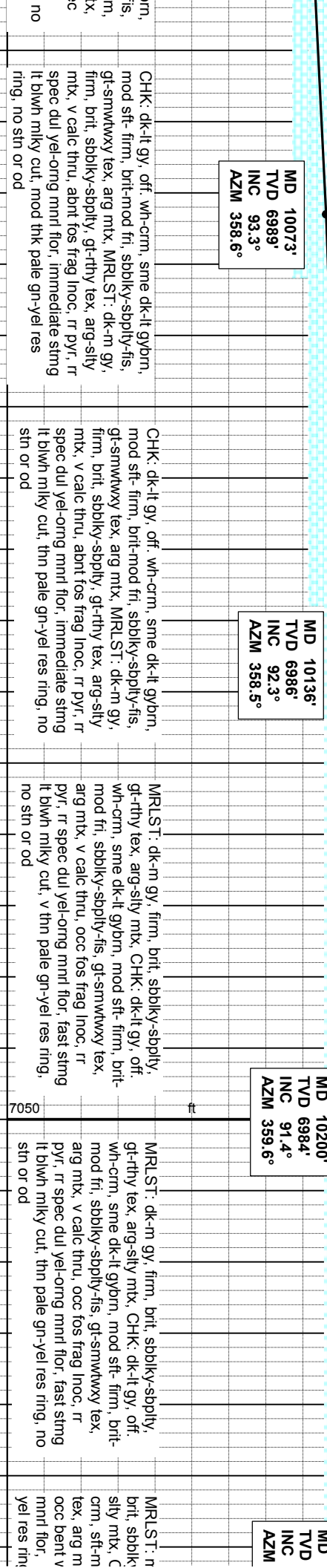
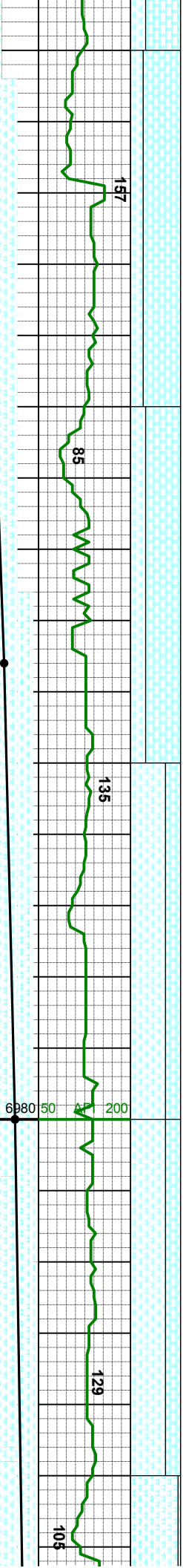
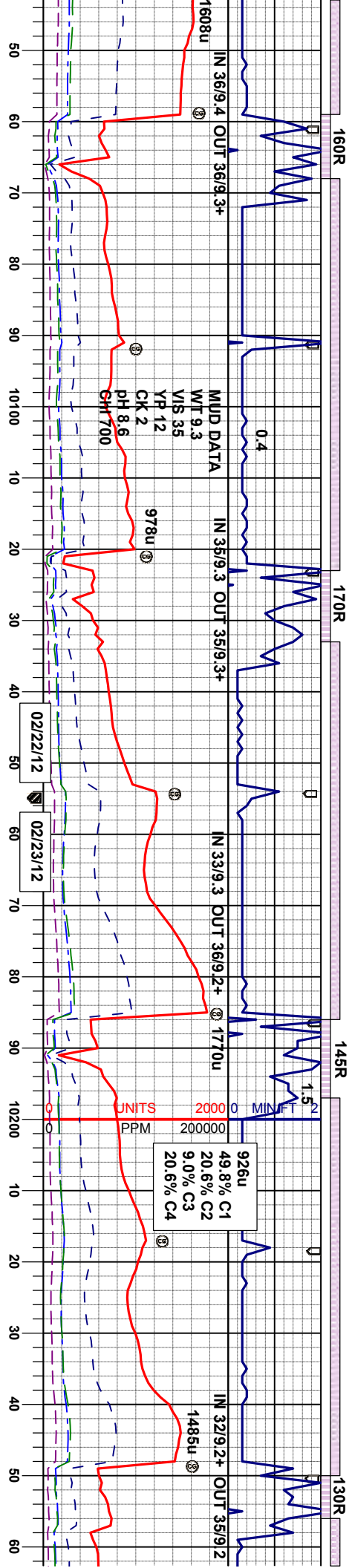
MRLST: dk-m gy, firm, brit, sbblky-sbply, gt-rthy tex, arg-sily mtz, CHK: dk-it gybm, off, wh-crm, mod sft- firm, brit-mod fri, sbblky-sbply-fis, gt-wy tex, arg mtz, v calc thru, abnt fos frag inoc, tr pyr, spec dul yel-orm mnt flr, immediate sting it blwh mlky cut, mod thk gn-yel res ring, no stn or od

CHK: dk-it gybm, off, wh-crm, mod sft- firm, brit-mod fri, sbblky-sbply-fis, gt-wy tex, arg mtz, MRLST: dk-m gy, firm, brit, sbblky-sbply, gt-rthy tex, arg-sily mtz, v calc thru, abnt fos frag inoc, tr pyr, spec dul yel-orm mnt flr, immediate sting it blwh mlky cut, mod thk gn-yel res ring, no stn or od

CHK: dk-it gy, off, wh-crm, sme dk-it gyl, mod sft- firm, brit-mod fri, sbblky-sbply-f, gt-wy tex, arg mtz, MRLST: dk-m gy, fir brit, sbblky-sbply, gt-rthy tex, arg-sily mt v calc thru, abnt fos frag inoc, tr pyr, spe dul yel-orm mnt flr, immediate sting it blwh mlky cut, v thin pale gn-yel res ring, stn or od

MODERATE





CHK: dk-it gy, off. wh-frm, sme dk-it gybm, mod sft-frm, brt-mod fri, sbblky-sbply-fis, gf-smwtxy tex, arg mtx, MRLST: dk-m gy, firm, brt, sbblky-sbply, gf-rthy tex, arg-sily mtx, v calc thru, abnt fos frag inoc, r pyr, r spec dul yel-orm mnt flr, immediate stmg it blwh mlky cut, mod thk pale gn-yel res ring, no sin or od

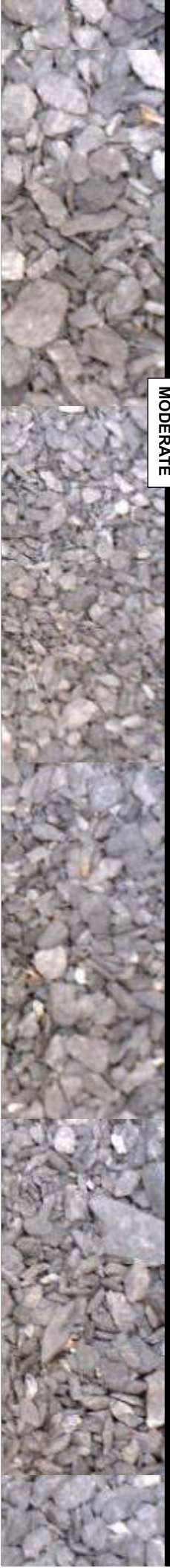
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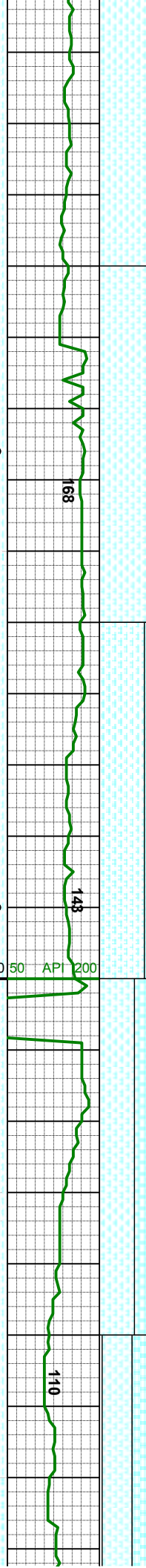
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MRLST: dk-m gy, firm, brt, sbblky-sbply, gf-rthy tex, arg-sily mtx, CHK: dk-it gy, off. wh-frm, sme dk-it gybm, mod sft-frm, brt-mod fri, sbblky-sbply-fis, gf-smwtxy tex, arg mtx, v calc thru, ooc fos frag inoc, r pyr, r spec dul yel-orm mnt flr, fast stmg it blwh mlky cut, thn pale gn-yel res ring, no sin or od

MRLST: n brt, sbblky-sily mtx, C crm, sft-m tex, arg m occ bent v mnt flr, yel res rin

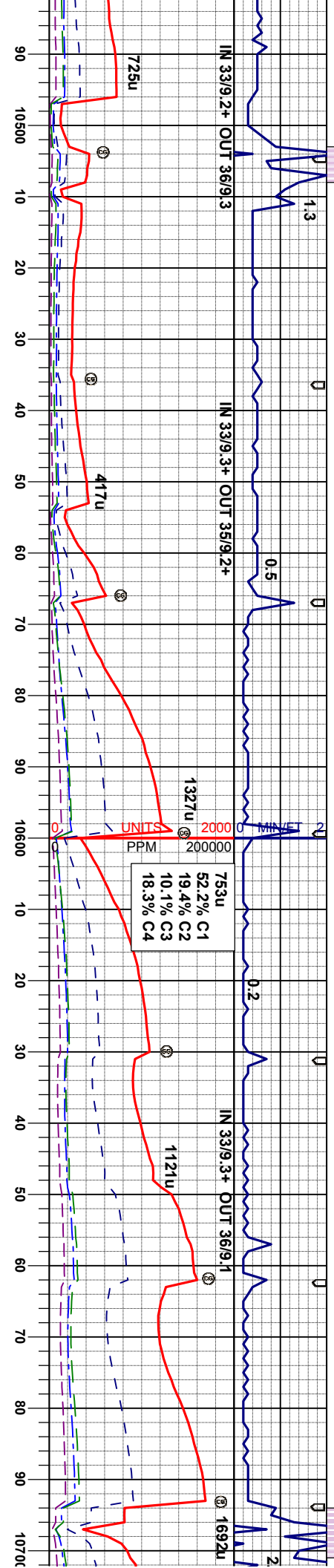
MODERATE





20R

55R



MD 10517'
TVD 6983'
INC 89.8°
AZM 359.1°

MD 10580'
TVD 6983'
INC 90.3°
AZM 359.3°

MD 10644'
TVD 6983'
INC 89.9°
AZM 359.0°

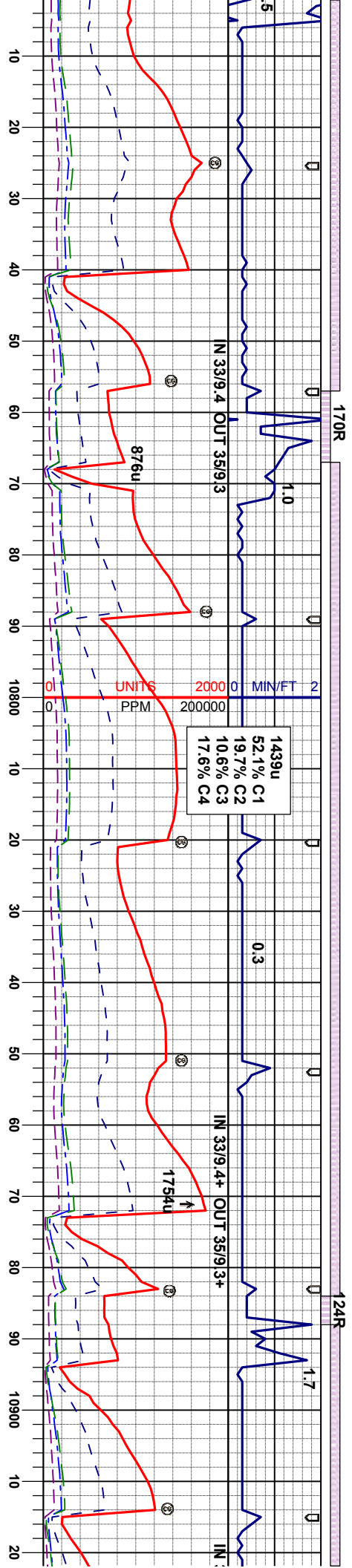
MRLST: m gybm-dk gybm, occ blk, firm, brit, sbblky-sbply, sbf's ip, gt-rthy tex, arg-sily mtz, CHK: lt gybm- m gybm, r'r off, wh-crm, sft-mod firm, fri, sbblky-sbply, sbwxy tex, arg mtz, v calc thru, abnt bent w/ dism pyr, r'r fos frag, freq spec yel-gn mnrl flr, sl sting v bri lt bl cut, thn pale gn-yel res ring, no stn or od

MRLST: m gybm-dk gybm, occ blk, firm, brit, sbblky-sbply, sbf's ip, gt-rthy tex, arg-sily mtz, CHK: lt gybm- m gybm, r'r off, wh-crm, sft-mod firm, fri, sbblky-sbply, sbwxy tex, arg mtz, v calc thru, abnt bent w/ dism pyr, r'r fos frag, freq spec yel-gn mnrl flr, sl sting v bri lt bl cut, thn pale gn-yel res ring, no stn or od

MRLST: m gybm-dk gybm, occ blk, firm, brit, sbblky-sbply, sbf's ip, gt-rthy tex, arg-sily mtz, CHK: m gybm, sft-mod firm, fri, sbply, sbwxy tex, arg mtz, v calc thru, abnt bent w/ dism pyr, r'r fos frag, freq spec yel mnrl flr, sl sting v bri lt bl cut, thn pale gn-yel res ring, no stn or od

MRLST: m gybm-dk gybm, occ blk, firm, brit, sbblky-sbply, sbf's ip, gt-rthy tex, arg-sily mtz, CHK: m gybm, r'r off, wh-crm, sft-mod firm, fri, sbply-sbblky, sbwxy tex, arg mtz, v calc thru, occ bent w/ dism pyr, r'r fos frag, spec yel mnrl flr, sting bri bl cut, thn pale gn-yel res ring, no stn or od

GOOD



D 10707'
TVD 6982.7'
INC 91.6°
AZM 0.4°

MD 10771'
TVD 6981'
INC 89.9°
AZM 359.9°

MD 10884'
TVD 6982'
INC 89.8°
AZM 359.6°

MD 10898'
TVD 6982'
INC 89.1°
AZM 0.3°

MR.LST: m gybrn-dk gybrn, occ blk, firm, brit, sbblky-sbply, sbfls ip, gt-rthy tex, arg-sily mtz, CHK: m gybrn, mot crm ip, smwt sily, sft-nod firm, brit-frt, sbply-sbblky, sm-sbwy tex, arg mtz, v calc thru, occ bent w/ dism pyr, freq fos frag, spec yel mnrl flor, string bri bl cut, thin pale gn-yel res ring, no stn or od

MR.LST: m gybrn-dk gy, occ blk, firm, brit, sbblky-sbply, sbfls ip, gt-rthy tex, arg-sily mtz, CHK: it brn-dk brn, mot crm ip, smwt sily, pred sft-sme firm, brit-frt, sbply-sbblky, sm-sbwy tex, arg mtz, v calc thru, occ bent w/ dism pyr, freq fos frag, spec yel mnrl flor, string bri bl cut, thin pale gn-yel res ring, no stn or od

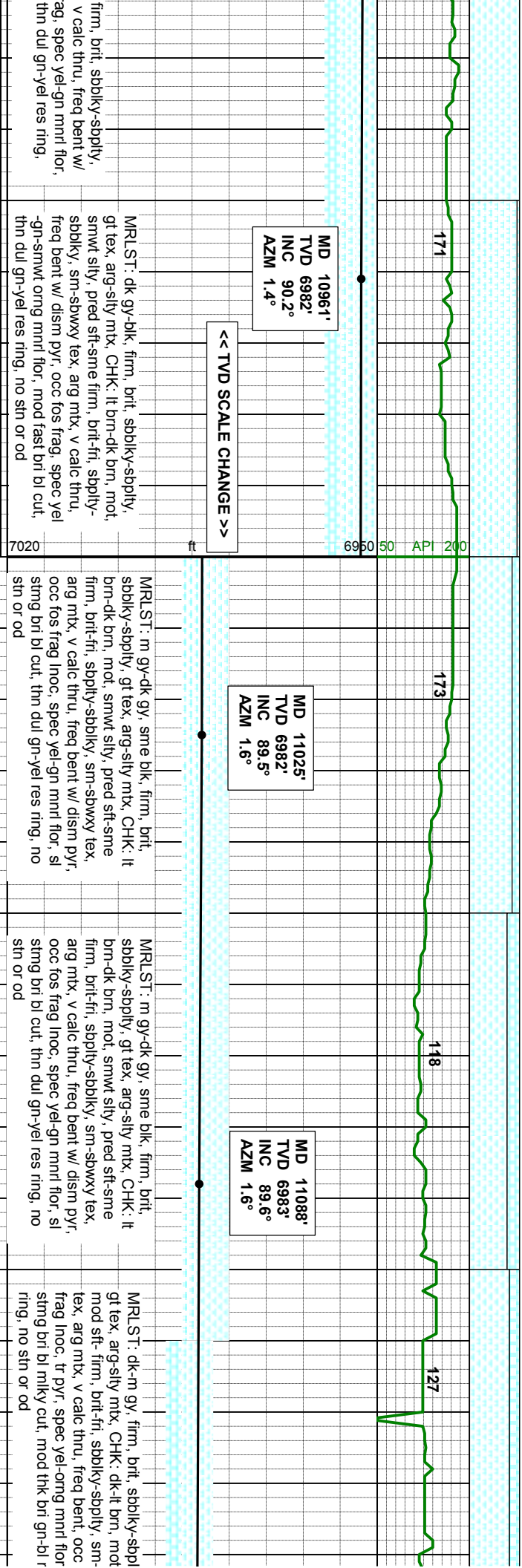
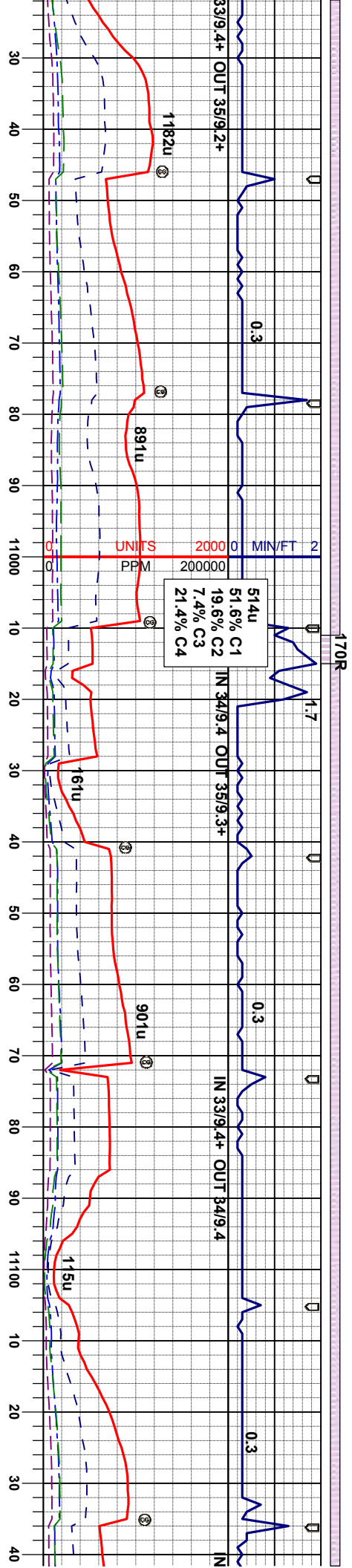
MR.LST: m gy-blk, firm, brit, sbblky-sbply, gt-rthy tex, arg-sily mtz, CHK: it brn-dk brn, mot, smwt sily, pred sft-sme firm, brit-frt, sbply-sbblky, sm-sbwy tex, arg mtz, v calc thru, abnt bent w/ dism pyr, occ fos frag, abnt spec yel mnrl flor, bri bl cut, thin pale gn-yel res ring, no stn or od

MR.LST: m gy-blk, firm, brit, sbblky-sbply, gt-rthy tex, arg-sily mtz, CHK: it brn-dk brn, mot, smwt sily, pred sft-sme firm, brit-frt, sbply-sbblky, sm-sbwy tex, arg mtz, v calc thru, abnt bent w/ dism pyr, occ fos frag, abnt spec yel mnrl flor, bri bl cut, thin pale gn-yel res ring, no stn or od

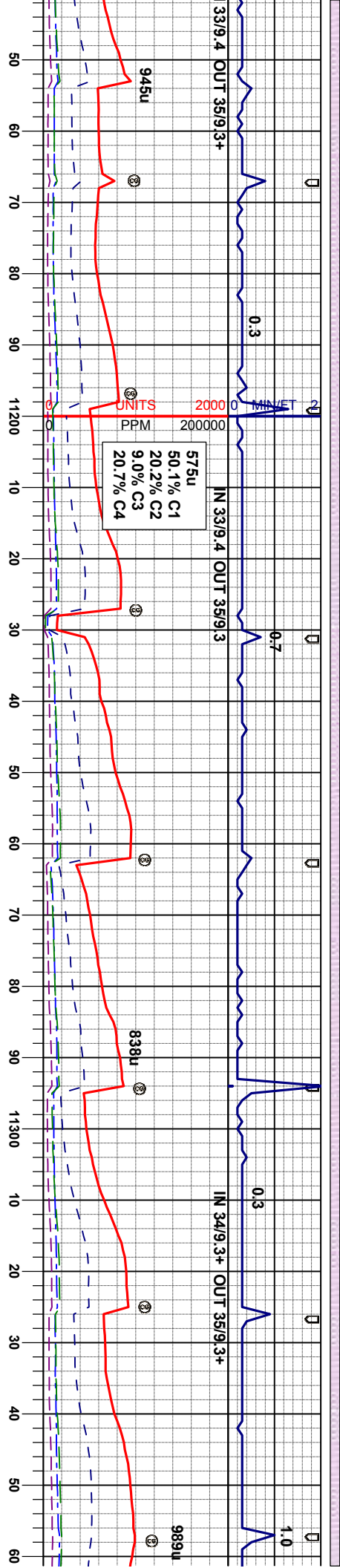
MR.LST: dk gy-blk, gt tex, arg-sily mtz, dism pyr, occ fos fr mod fast bri bl cut, no stn or od



GOOD



MODERATE



57.5u
50.1% C1
20.2% C2
9.0% C3
20.7% C4

MD 11152'
TVD 6984'
INC 89.7°
AZM 1.4°

MD 11215'
TVD 6984'
INC 89.8°
AZM 1.0°

MD 11279'
TVD 6984'
INC 90.1°
AZM 1.1°

MD 11330'
TVD 6984'
INC 89.1°
AZM 0.1°

MRLST: dk-m gy, firm, brit, sbblky-sbply, gt tex, arg-sily mtz, CHK: dk-it brn, mot, mod sft-firm, brit-fr, sbblky-sbply, sm-wxy tex, arg mtz, v calc thru, freq bent, occ fos frag inoc, tr pyr, spec yel-ormg mnrl flr, fast stmg bri bl mky cut, mod thk bri gn-bl res ring, no stn or od

MRLST: dk-m gy, firm, brit, sbblky-sbply, gt tex, arg-sily mtz, CHK: dk-it brn, mot, mod sft-firm, brit-fr, sbblky-sbply, sm-wxy tex, arg mtz, v calc thru, freq bent, occ fos frag inoc, tr pyr, spec yel-ormg mnrl flr, fast stmg bri bl mky cut, mod thk bri gn-bl res ring, no stn or od

MRLST: dk-m gy, firm, brit, sbblky-sbply, gt tex, arg-sily mtz, CHK: dk-it brn, mot, mod sft-firm, brit-fr, sbblky-sbply, sm-wxy tex, arg mtz, v calc thru, freq bent, occ fos frag inoc, tr pyr, spec yel-ormg mnrl flr, fast stmg bri bl mky cut, mod thk bri gn-bl res ring, no stn or od

CHK: dk-it brn, mot, mod sft-firm, brit-fr, sbblky-sbply, sm-wxy tex, arg mtz, MRLST: dk-m gy, firm, brit, sbblky-sbply, gt tex, arg-sily mtz, v calc thru, freq bent, occ fos frag inoc, tr pyr, spec yel-ormg mnrl flr, fast stmg bri bl mky cut, mod thk bri gn-bl res ring, no stn or od

CHK: dk-sbblky-sbply, MRLST: gt tex, arg mtz, occ fos frag inoc, tr pyr, spec yel-ormg mnrl flr, fast stmg bri bl mky cut, mod thk bri gn-bl res ring, no stn or od

MODERATE

