

Submit a Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-47448
5. Indicate Type of Lease STATE [] FEE [X]
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Poker Lake Unit 21 Lincoln Fee SWD
8. Well Number #1
9. OGRID Number 373075
10. Pool name or Wildcat SWD; Devonian-Silurian

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [] Gas Well [] Other []
2. Name of Operator XTO Energy, Inc.
3. Address of Operator 64001 Holiday Hill rd BLDG #5, Midland TX 79707
4. Well Location Unit Letter O : 370 feet from the South line and 1355 feet from the East line
Section 21 Township 25S Range 30E NMPM County Eddy
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3253' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [] PLUG AND ABANDON []
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: []
SUBSEQUENT REPORT OF:
REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A []
CASING/CEMENT JOB []
OTHER: Mud Log & Geological Letter [X]

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

XTO Permian Operating Respectfully submit the Mud Log & Geo Letter for the well above.

Spud Date: 9/22/2020 Rig Release Date: 11/26/20

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Cassie Evans TITLE Regulatory Analyst DATE 03/16/2022

Type or print name Cassie Evans E-mail address: cassie.evans@exxonmobil.com PHONE: 432.218.3671

For State Use Only

APPROVED BY: TITLE DATE

Conditions of Approval (if any):

March 21, 2022

New Mexico, Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Final Description of the Depth for the Injection Interval

XTO Energy Inc., an ExxonMobil subsidiary
Poker Lake Unit 21 Lincoln Fee SWD Well No. 1
Section 21, Township 25 South, Range 30 East,
Eddy County, New Mexico

To whom it may concern:

In reference to the Administrative Order SWD-2385, XTO Energy, Inc., an ExxonMobil subsidiary, has examined the mud log and geophysical/wireline log information from the Poker Lake Unit 21 Lincoln Fee SWD No. 1 well, and based on this information the Devonian and Silurian formations are open for disposal. The open hole disposal interval for this well is from 16,470 feet to 17,495 feet. The top of the Devonian is ~16,629 feet, and the total depth of the well at 17,495 feet is above the top of the Montoya Limestone. Mud log samples indicate 100% dolomite at total depth; therefore the top of the Montoya limestone having at least 50% to 100% limestone was not drilled.

There were no significant hydrocarbon shows noted during the drilling of this interval.

Respectively Submitted,

Alex Fitzjarrald

Geoscientist
XTO Energy Inc., an ExxonMobil subsidiary
22777 Springwoods Village Parkway
Spring, Texas 77389

9/22/20

WOB 13
RPM 50
PP 669
SPM 190
FLOW LINE

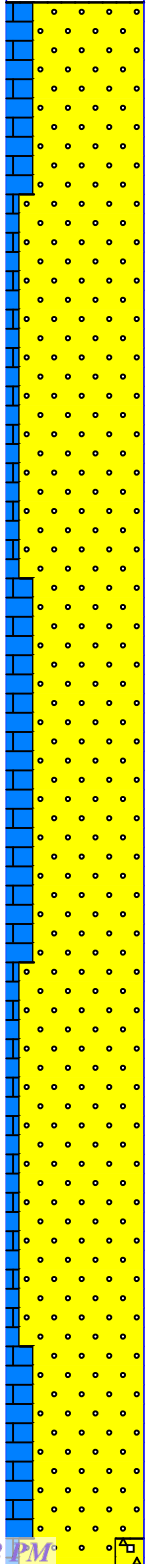
WT IN 8.4+
WT OUT 8.5+
VIS 27/28

MD 118.00'
TVD 118.00'
INC 0.16°
AZM 5.79°
VS 0.16'
DLS 0.14°

WOB 13
RPM 50
PP 669
SPM 190
FLOW LINE

WT IN 8.4+
WT OUT 8.5+
VIS 27/28

EPH 50 100 200 400
GAMMA 300



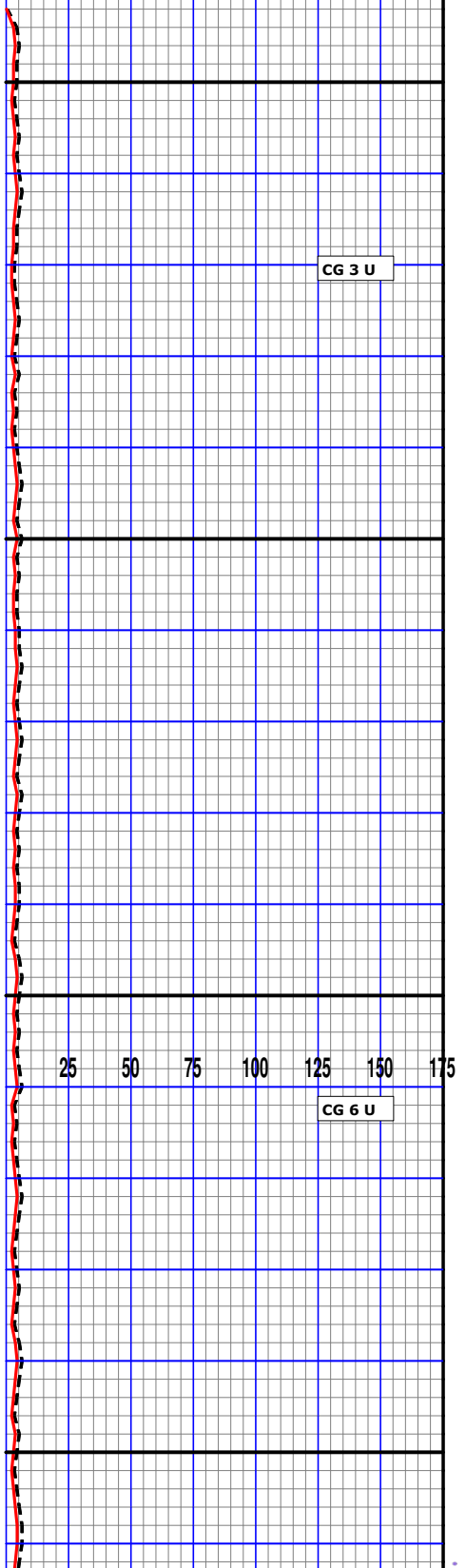
80% SS, 20% LS,
SS: TRANSL- OPAQ, UN CONSOL,
SUBRND TO RND, MED TO FN TO
V/FN GRN, PRLY SORT, NOCMNT,
NO MIN FLOUR, NO CUT,

90% SS, 10% LS,
SS: TRANSL- OPAQ, UN CONSOL,
SUBRND TO RND, MED TO FN TO
V/FN GRN, PRLY SORT, NOCMNT,
NO MIN FLOUR, NO CUT,

80% SS, 20% LS,
SS: TRANSL- OPAQ- OCC OFF WHT,
UN CONSOL, SUBRND TO RND, MED
TO FN TO V/FN GRN, PRLY SORT,
NOCMNT, NO MIN FLOUR, NO CUT,

80% SS, 20% LS,
SS: TRANSL- OPAQ- OFF WHT, UN
CONSOL, SUBRND TO RND, MED
TO FN TO V/FN GRN, PRLY SORT,
NOCMNT, NO MIN FLOUR, NO CUT,

25 50 75 100 125 150 175



CG 3 U

25 50 75 100 125 150 175

CG 6 U

Received by OCD: 3/22/2022 8:23:48 AM

MD 269.00'
TVD 269.00'
INC 0.13°
AZM 267.82°
VS 0.37'
DLS 0.11°

WOB 4
RPM 50
PP 920
SPM 190
FLOW LINE

WT IN 8.4+
WT OUT 8.5+
VIS 27/28

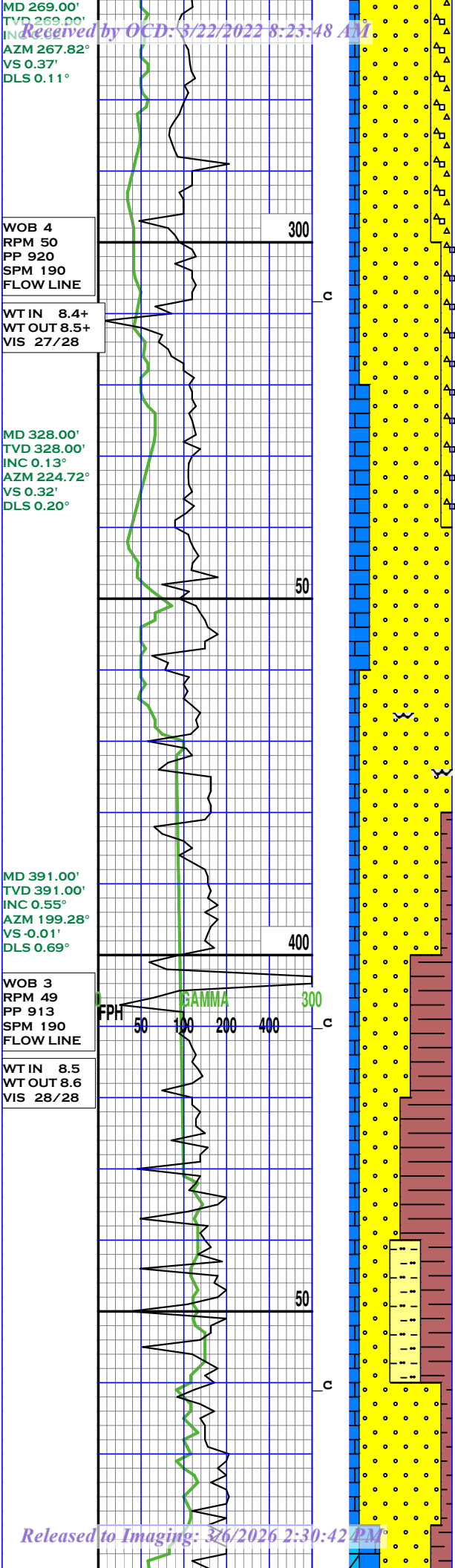
MD 328.00'
TVD 328.00'
INC 0.13°
AZM 224.72°
VS 0.32'
DLS 0.20°

MD 391.00'
TVD 391.00'
INC 0.55°
AZM 199.28°
VS -0.01'
DLS 0.69°

WOB 3
RPM 49
PP 913
SPM 190
FLOW LINE

WT IN 8.5
WT OUT 8.6
VIS 28/28

Released to Imaging: 3/26/2026 2:30:42 PM



70% SS, 20% QW, 10% LS,
QUARTZ WASH: PREDOM TRANSL
- OPAQ, UN TO LSLY CONSOL,
SUBRND TO RND, MED TO FN TO
V/FN GRN, PRLY SORT, NO CMNT,
NO MIN FLOUR, NO CUT,

CG 4 U

80% SS, 20% LS,
SS: TRANSL- OPAQ- LT/ORNG, UN
CONSOL, RND TO SUBRND, MED
TO FN GRN, MOD SORT, NO CMNT,
NO MIN FLOUR, NO CUT,

80% SS, 10% LS, 10% SH
SS: TRANSL- OPAQ- LT/ORNG, UN
CONSOL, RND TO SUBRND, V/FN TO
FN GRN, MOD SORT, NO CMNT, NO
MIN FLOUR, NO CUT,

25 50 75 100 125 150 175
CG 5 U

30% SS, 30%RSH, 30% SI, 10% LS,
SS: OPAQ- CRM- OCC TN, UNCON
SOL, SUBRND TO SUBANG TO RND,
MED TO V/FN GRN,, MOD SORT, NO
CMNT, NO MIN FLOUR, NO CUT,

WOB 6
RPM 90
PP 1085
SPM 213
FLOW LINE

WT IN 8.6
WT OUT 8.8
VIS 28/28

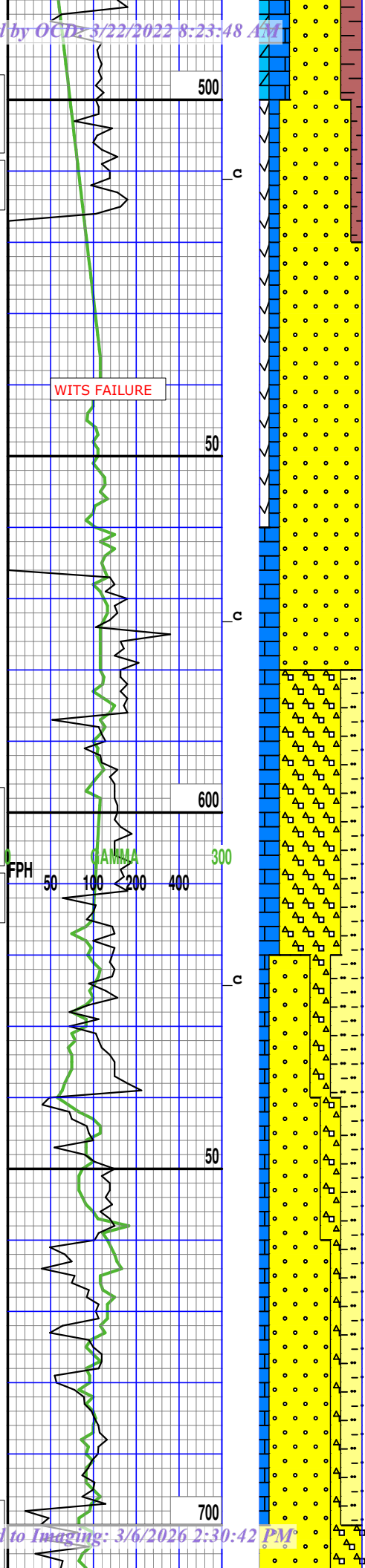
MD 543.00'
TVD 543.00'
INC 0.60°
AZM 19.96°
VS 0.05'
DLS 0.76°

WOB 2
RPM 90
PP 1138
SPM 213
FLOW LINE

WT IN 8.8
WT OUT 9.1
VIS 28/29

MD 639.00'
TVD 638.99'
INC 0.52°
AZM 57.00°
VS 0.76'
DLS 0.38°

WOB 3
RPM 90
PP 1138
SPM 213
FLOW LINE



30% SS, 30%RSH, 30% SI, 10% LS,
SS: OPAQ- CRM- OCC TN, UNCON
SOL, SUBRND TO SUBANG TO RND,
MED TO V/FN GRN,, MOD SORT, NO
CMNT, NO MIN FLOUR, NO CUT,

CG 4 U

80% SS, 10% ANHY, 10% LS,
SS: OPAQ- CRM- TN, UNCONSOL,
SUBRND TO SUBANG TO RND, FN
TO V/FN GRN, MOD SORT, NO CMNT,
NO MIN FLOUR, NO CUT,

CG 6 U

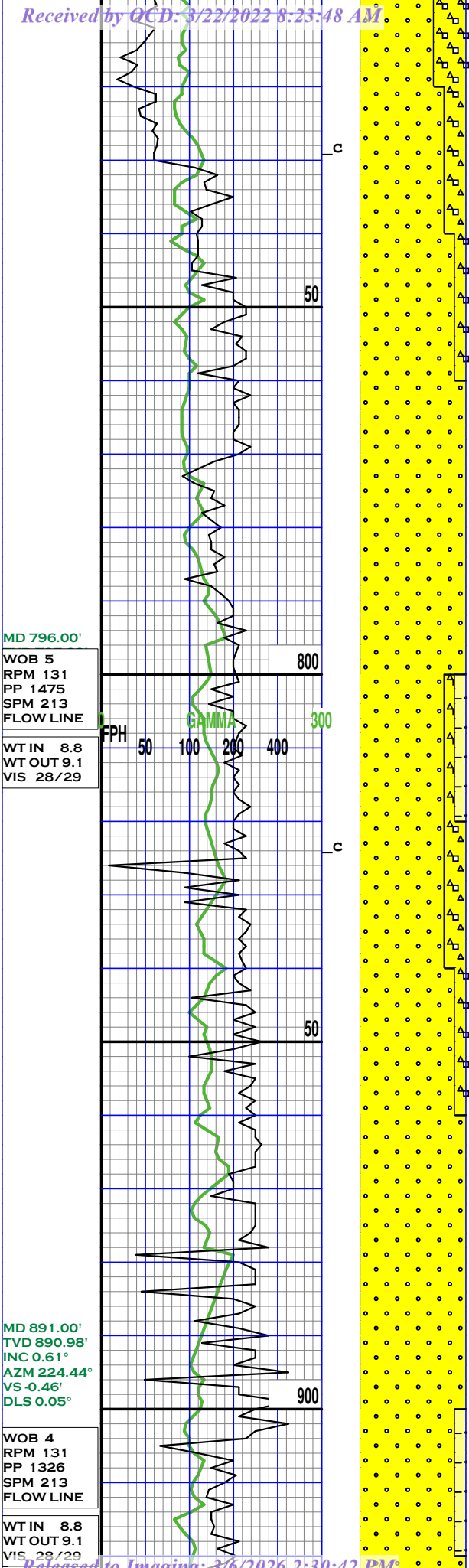
60% QW, 20%SI, 20% LS,
QUARTZ WASH: PREDOM OFFWHT -
TN - OPAQ, UN CONSOL, SUBRND
TO SUB ANG, V/CRS TO CRS GRN,
MOD SORT, NO CMNT, NO MIN
FLOUR, NO CUT,

25 50 75 100 125 150 175

CG 5 U

50% SS, 20% QW, 20% SI, 10% LS,
SS: OPAQ - TRANS- OFFWHT, UN
CONSOL, SUBRND TO SUBANG TO
RND, FN TO V/FN GRN, MOD SORT,
NO CMNT, NO MIN FLOUR, NO CUT,

70% SS, 30% QW,
SS: OPAQ - TRANS- OFFWHT, UN
CONSOL, SUBRND - SUBANG TR



10% QW, 90% SS,
 QUARTZ WASH: OFFWHT - TN -
 OPAQ, UN CONSOL, SUBRND - SUB
 ANG, V/CRS - CRS SME FN GRN,
 MOD SORT, NO CMNT, NO MIN
 FLOUR, NO CUT,

100% SS
 SS: OPAQ - TRANS- OFFWHT-TN, UN
 CONSOL, SUBRND - SUBANG -
 RND, FN - V/FN GRN TR CRSE, WL-
 MOD SORT, NO CMNT, NO MIN
 FLOUR, NO CUT

90% SS, 10% QW,
 SS: OPAQ - TRANS- OFFWHT TR LT
 TN - BRN, PRED UN CONSOL,
 SUBRND - SUBANG TR RND, FN TO
 V/FN GRN, WL-MOD SORT, NO CMNT,
 NO MIN FLOUR, NO CUT

100% SS
 SS: OPAQ - TRANS OCC OFFWHT-TN,
 UN CONSOL, SUBRND - SUBANG
 SCAT RND, FN - V/FN GRN TR CRSE,
 WL-MOD SORT, NO CMNT, NO MIN
 FLOUR, NO CUT

CG 3 U

CG 3 U

CG 6 U

MD 985.00'
TVD 984.98'
INC 0.67°
AZM 252.56°
VS -0.98'
DLS 0.34°

WOB 5
RPM 130
PP 1299
SPM 213
FLOW LINE

WT IN 9.2
WT OUT 9.6
VIS 29/30

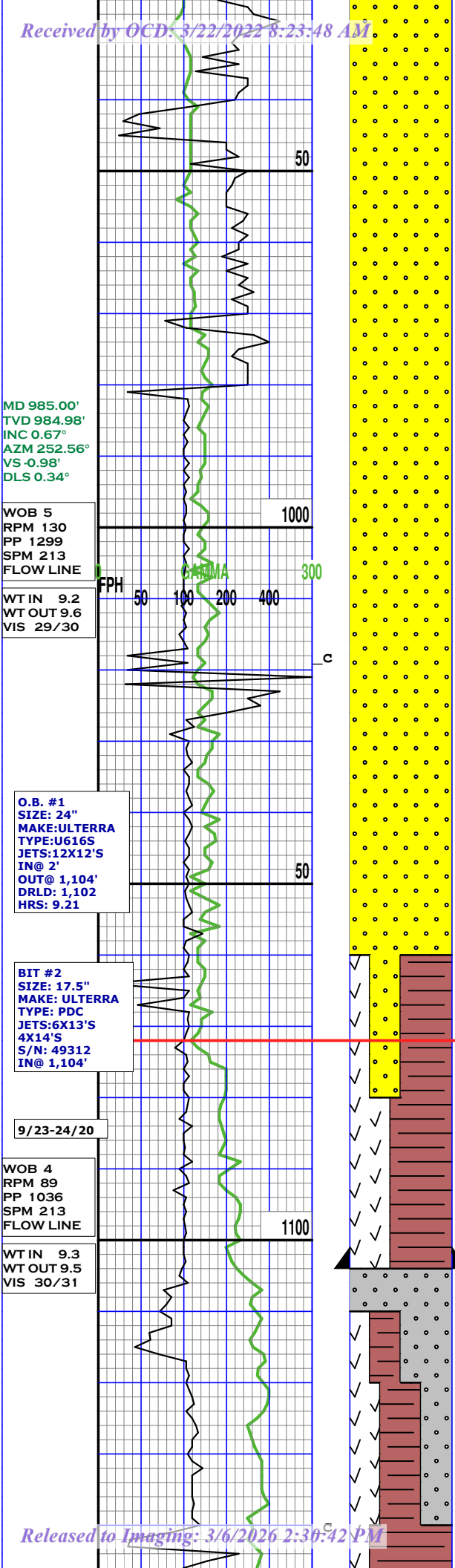
O.B. #1
SIZE: 24"
MAKE: ULTERRA
TYPE: U616S
JETS: 12X12'S
IN @ 2'
OUT @ 1,104'
DRLD: 1,102
HRS: 9.21

BIT #2
SIZE: 17.5"
MAKE: ULTERRA
TYPE: PDC
JETS: 6X13'S
4X14'S
S/N: 49312
IN @ 1,104'

9/23-24/20

WOB 4
RPM 89
PP 1036
SPM 213
FLOW LINE

WT IN 9.3
WT OUT 9.5
VIS 30/31



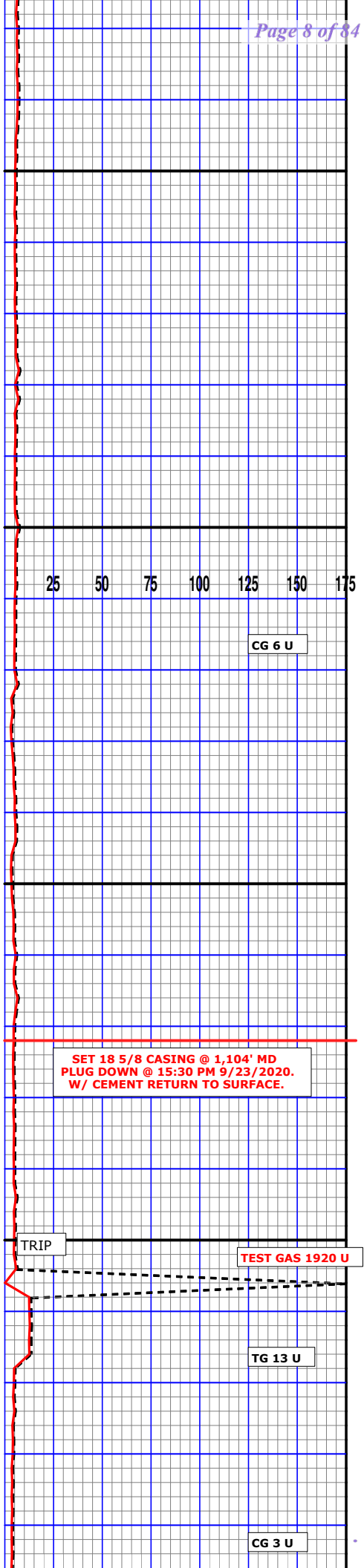
100% SS
SS: OPAQ - TRANS OCC OFFWHT-
BRN- RDISH BRN, MSTLY UN
CONSOL, SUBRND - SUBANG SCAT
RND, FN - V/FN GRN TR CRSE, WL-
MOD SORT, NO CMNT, NO MIN
FLOUR, NO CUT

100% SS
SS: PRED TRANS OCC OFFWHT SME
BRN- RDISH BRN, LSLY-UN CONSOL,
SUBRND - SUBANG SCAT RND, FN -
V/FN GRN TR CRSE, WL-MOD SORT,
NO CMNT, NO MIN FLOUR, NO CUT

100% SS
SS: OPAQ - OCC OFFWHT-BRN-
RDISH BRN, MSTLY MOD T LSLY
CONSOL, SUBRND - SUBANG SCAT
RND, FN - V/FN GRN TR CRSE, WL-
MOD SORT, TR PYRT, NO CMNT, NO
MIN FLOUR, NO CUT

RUSTLER 1072' MD
1071.97' TVD (2214.03' SS)

60% RSH, 40% ANHY
RSH: PRED LT/RD- ORNG- LT/BRN,
MOD CONSOL, SBANG, SM TXT, FRI
TO FRM, V ARG, NO O FLUOR, NO MIN,
NO CUT/RES RNG



MD 1162.00'
TVD 1161.96'
INC 0.70°
AZM 234.19°
VS -1.92'
DLS 0.12°

WOB 26
RPM 60
PP 2343
SPM 239
FLOW LINE

WT IN 10.2
WT OUT 10.2
VIS 28/28

MD 1257.00'
TVD 1256.96'
INC 0.56°
AZM 239.66°
VS -2.50'
DLS 0.16°

WOB 24
RPM 58
PP 2727
SPM 239
FLOW LINE

WT IN 10.2
WT OUT 10.2
VIS 28/28

MD 1351.00'
TVD 1350.96'
INC 0.16°
AZM 311.65°
VS -2.64'
DLS 0.57°

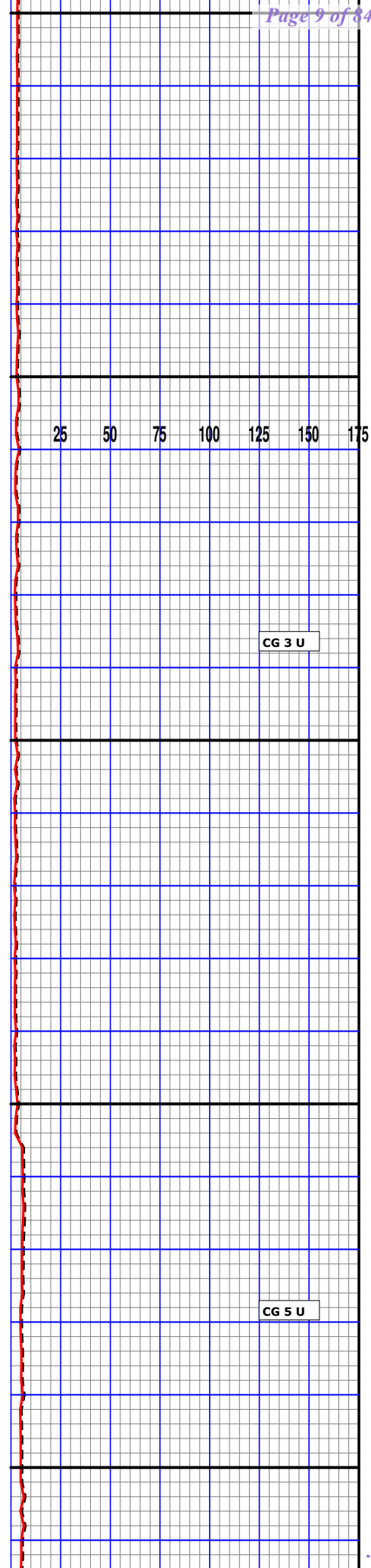
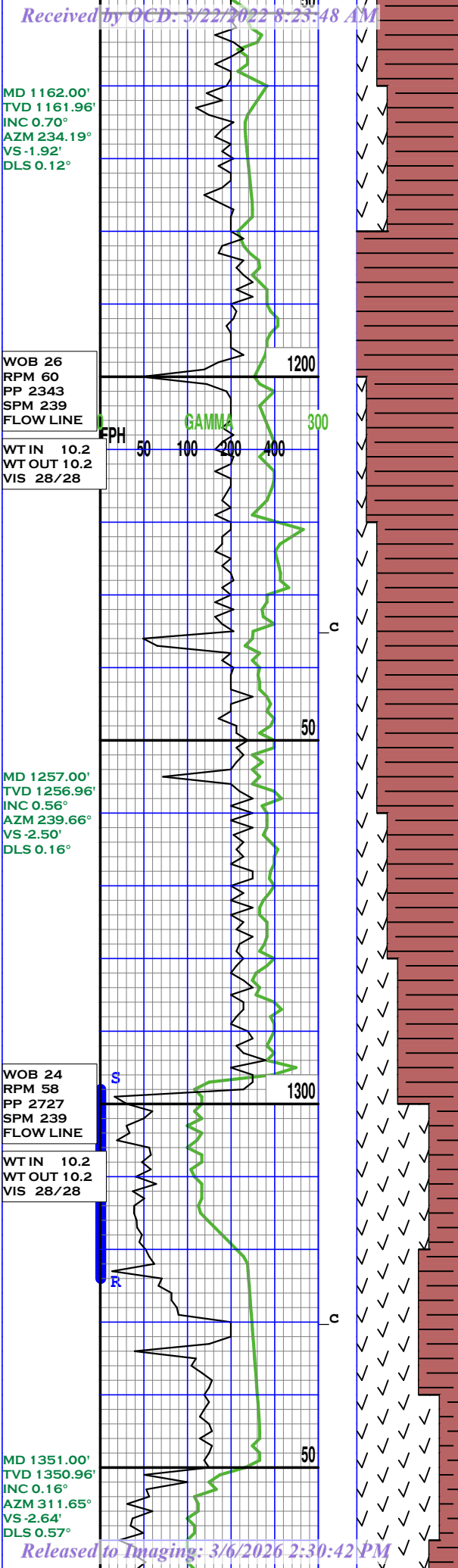
80% RSH, 20% ANHY
RSH: PRED LT/RD- ORNG, SUBRND
TO SBANG, SM TXT, FRI TO SFT,
ARG IP, NO O FLUOR, NO MIN, NO
CUT/RES RNG

100% RSH,
RSH: PRED LT/RD- ORNG, SUBRND
TO RND, SM TO SLI SLTY, FRI TO
SFT, SCAT EMB ANHY, NO O FLUOR,
NO MIN, NO CUT/RES RNG.

80% RSH, 20% ANHY,
RSH: ORNG- LT/RD, SUBRND TO
RND, SM TO SLTY TXT, FRI TO SFT,
SCAT EMB ANHY, NO O FLUOR,
NO MIN, NO CUT/RES RNG.

60% RSH, 40% ANHY,
RSH: ORNG- LT/RD, ND TO SCAT
RND, SM TO SLTY TXT, FRI TO SFT,
SCAT EMB ANHY, NO O FLUOR, NO
MIN, NO CUT/RES RNG.

70% ANHY, 30% RSH
ANHY: WHT - OFF WHT - TRNSL
TR M-LT GRY, MASS, SFT -MFRM,
BLKY- SUB BLKY, VF XLN, NO VIS O-
MIN FLUOR , NO CUT, NO RESID RNG



25 50 75 100 125 150 175

CG 3 U

CG 5 U

WOB 37
RPM 59
PP 2572
SPM 239
FLOW LINE

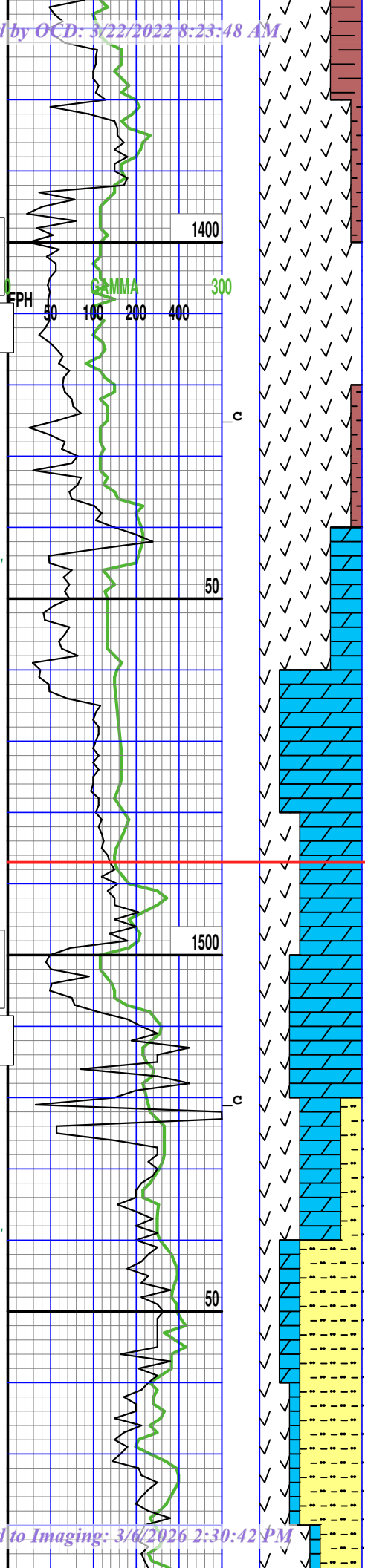
WT IN 10.2
WT OUT 10.3
VIS 28/28

MD 1445.00'
TVD 1444.96'
INC 0.24°
AZM 7.97°
VS -2.36'
DLS 0.21°

WOB 35
RPM 59
PP 1985
SPM 191
FLOW LINE

WT IN 10.4
WT OUT 10.4
VIS 28/28

MD 1539.00'
TVD 1538.95'
INC 0.57°
AZM 14.97°
VS -1.71'
DLS 0.35°



10% RSH, 90% ANHY,
RSH: ORNG- LT/RD, SB RND, SM -
SLTY TXT, FRI - SFT, SCAT EMB
ANHY, NO O FLUOR, NO MIN, NO
CUT/RES RNG.

70% ANHY, 30% DOL
ANHY: WHT - OFF WHT - M-LT GRY
TR TN-VLT BRN, MASS, SFT -MFRM,
BLKY- SUB BLKY, VF XLN,NO VIS O-
MIN FLUOR , NO CUT, NO RESID RNG

BASE RUSTLER 1487' MD
1487.96' TVD (1798.04' SS)

60% DOL, 40% ANHY
DOL: LT BRN - TN- CRM, MOTT,
SUBBLKY - SUBRND, FRM - FRI,
FN - VFN XLN, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG.

60% SILT, 20% ANHY, 20% DOL,
SILT, V/LTGRY- LTGRY-TN, FRI -
FRM, MOD SORT, MED - FN - OCC V/
FN GRN, SUBRND NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG.

70% ANHY, 20% SILT, 10% DOL
ANHY: M- LTBRN- BRNISH TN-OF
WHT, MASS, MED FRM - HRD, VFN
XLN, SUB BLKY OCC BLKY, INTRXLN
PORO, NO VIS O-MIN FLUOR, NO
CUT, NO RESID RNG

25 50 75 100 125 150 175

CG 5 U

CG 6 U

WOB 31
RPM 59
PP 2150
SPM 239
FLOW LINE

WT IN 10.4
WT OUT 10.4
VIS 28/28

MD 1634.00'
TVD 1633.95'
INC 0.31°
AZM 23.57°
VS -1.02'
DLS 0.28°

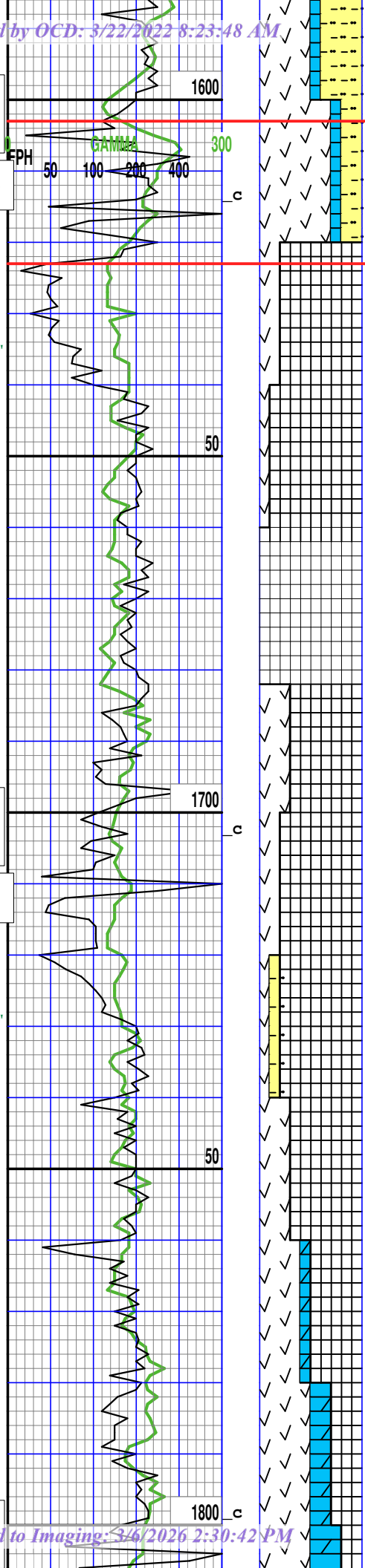
WOB 28
RPM 60
PP 2785
SPM 239
FLOW LINE

WT IN 10.4
WT OUT 10.6
VIS 28/28

MD 1728.00'
TVD 1727.95'
INC 0.50°
AZM 29.82°
VS -0.43'
DLS 0.21°

WOB 29
RPM 29
PP 2150
SPM 239
FLOW LINE

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SALADO (1683.05' SS TVD)

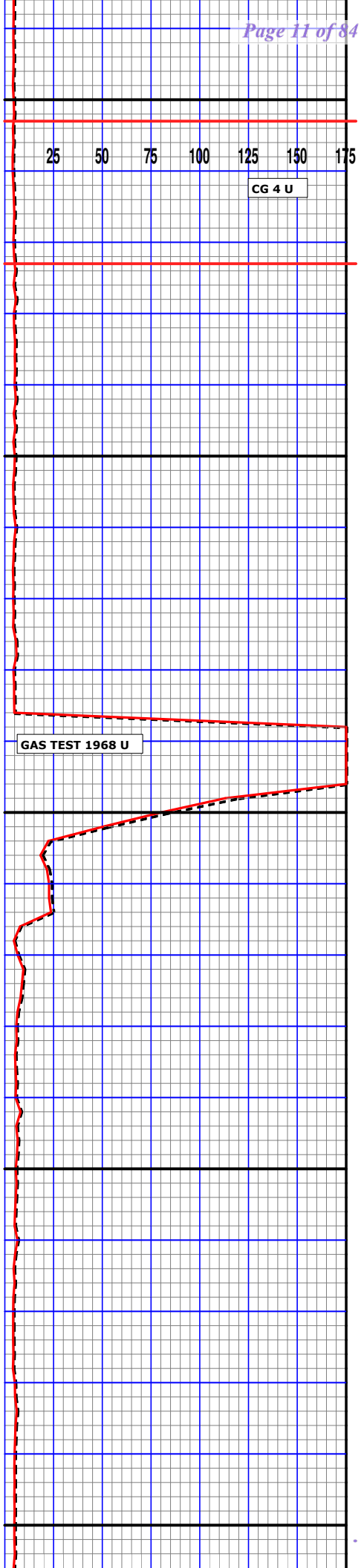
TOP OF SALT 1623' MD
1622.95' TVD (1663.05' SS)

90% SA, 10% ANHY,
SALT: WHT- TRANSL- OPAQ, BRIT
- FRM TR HRD, AMPH - SUBBLKY,
GLASY TXT, NO VIS O-MIN FLUOR,
NO CUT, NO RESID RNG

70% SA, 30% ANHY
SALT: WHT- TRANSL- FRSTY- OPAQ,
BRIT - SL FRM, AMPH - SUBBLKY,
GLASY TXT, NO VIS O-MIN FLUOR,
NO CUT, NO RESID RNG

30% ANHY, 70% SALT.
ANHY: LT GRY-OF WHT TR LT TN, SL
FRM - BRITT, VFN XLN, SUB BLKY -
BLKY, NO VIS O-MIN FLUOR, NO
CUT, NO RESID RNG

50% ANHY, 30% SALT, 20% DOL
ANHY: LT GRY-OF WHT -LT TN, SL
FRM - SL HRD, VFN XLN, SUB BLKY -



MD 1822.00'
TVD 1821.94'
INC 0.56°
AZM 1821.94°
VS 0.38'
DLS 0.23°

9/25/20

WOB 20
RPM 60
PP 2732
SPM 238
FLOW LINE

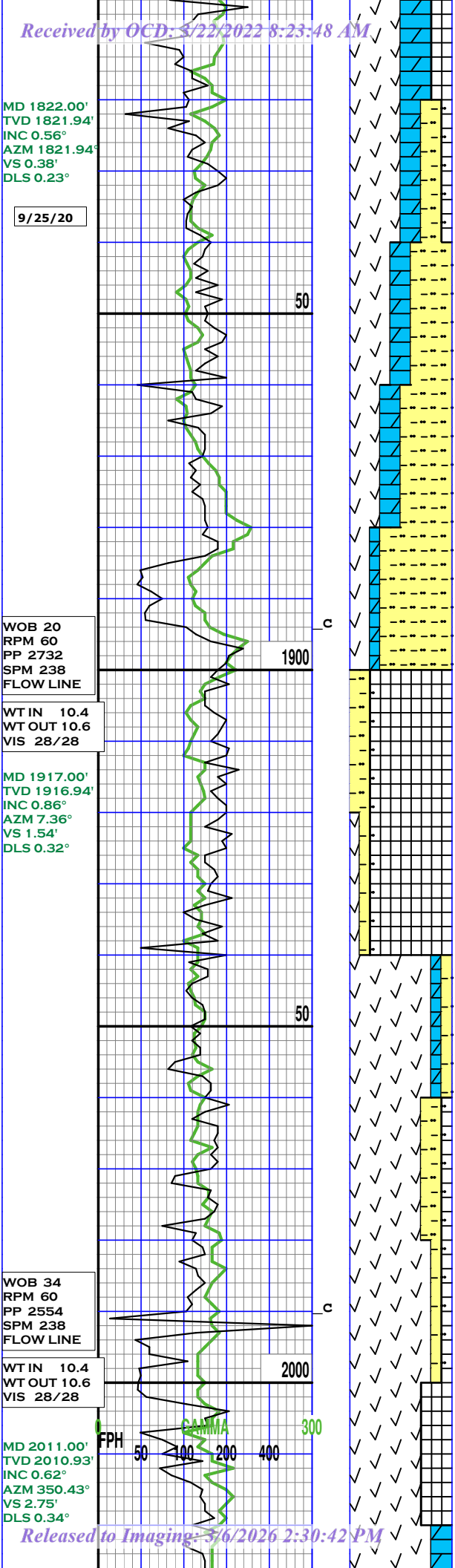
WT IN 10.4
WT OUT 10.6
VIS 28/28

MD 1917.00'
TVD 1916.94'
INC 0.86°
AZM 7.36°
VS 1.54'
DLS 0.32°

WOB 34
RPM 60
PP 2554
SPM 238
FLOW LINE

WT IN 10.4
WT OUT 10.6
VIS 28/28

MD 2011.00'
TVD 2010.93'
INC 0.62°
AZM 350.43°
VS 2.75'
DLS 0.34°



40% SILT, 40% ANHY, 20% DOL
SILT, LT ORNG -LT-M BRN, FRI -M
FRM, POR SORT, FN OCC VFNGRN,
SUB AND - SUBRND NO VIS PORO
O-MIN FLUOR, NO CUT, NO RESID
RNG.

20% ANHY, 70% SI, 10% DOL
ANHY: LT GRY-OF WHT -LT TN, FRM -
SL HRD, VFN XLN, PRED SUB BLKY -
BLKY, NO VIS O-MIN FLUOR, NO
CUT, NO RESID RNG

80% ANHY, 10% SILT, 10% DOL
ANHY: OFFWHT- LT/GRY--LT/TN, SL
FRM TO HRD, VFN TO MED XLN, SUB
BLKY TO SUBRND, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG

80% ANHY, 10% SILT, 10% SA,
ANHY: OFFWHT- LT/TN, SL FRM TO
HRD, VFN TO MED XLN, SUBBLKY TO
SUBRND, NO VIS O-MIN FLUOR, NO
CUT, NO RESID RNG

ZERO & CALIBRATE GAS
DETECTION EQUIPMENT

CG 13 U

FIX BACK LASH AND
CROWN-O-MATIC

CG 3 U

25 50 75 100 125 150 175

WOB 38
RPM 59
PP 2535
SPM 239
FLOW LINE

WT IN 10.5+
WT OUT 10.6+
VIS 30/28

MD 2106.00'
TVD 2105.93'
INC 0.24°
AZM 328.80°
VS 3.42°
DLS 0.43°

WOB 45
RPM 57
PP 2808
SPM 239
FLOW LINE

WT IN 10.6
WT OUT 10.7
VIS 30/29

MD 2200.00'
TVD 2199.93'
INC 0.17°
AZM 36.00°
VS 3.70°
DLS 0.25°

FPH 50 100 200 400
GAMMA 300

50

2100

50

2200

CASTILE 2053' MD
2052.93' TVD (1233.07' SS)

60% ANHY, 40% DOL,
DOL: XLN CARBNT, PREDOM TN TO
OFFWHT, BLKY TO SUBBLKY TO
SCAT SUBRND, HRD TO FRM, V/FN
TO FN XLN, NO VIS O-MIN FLUOR,
NO CUT, NO RESID RNG.

60% ANHY, 30% DOL, 10% SILT,
ANHY: OFFWHT- LT/TN, FRM TO HRD,
VFN TO MED XLN, SUBBLKY TO SUB
RND, NO VIS O-MIN FLUOR, NO
CUT, NO RESID RNG

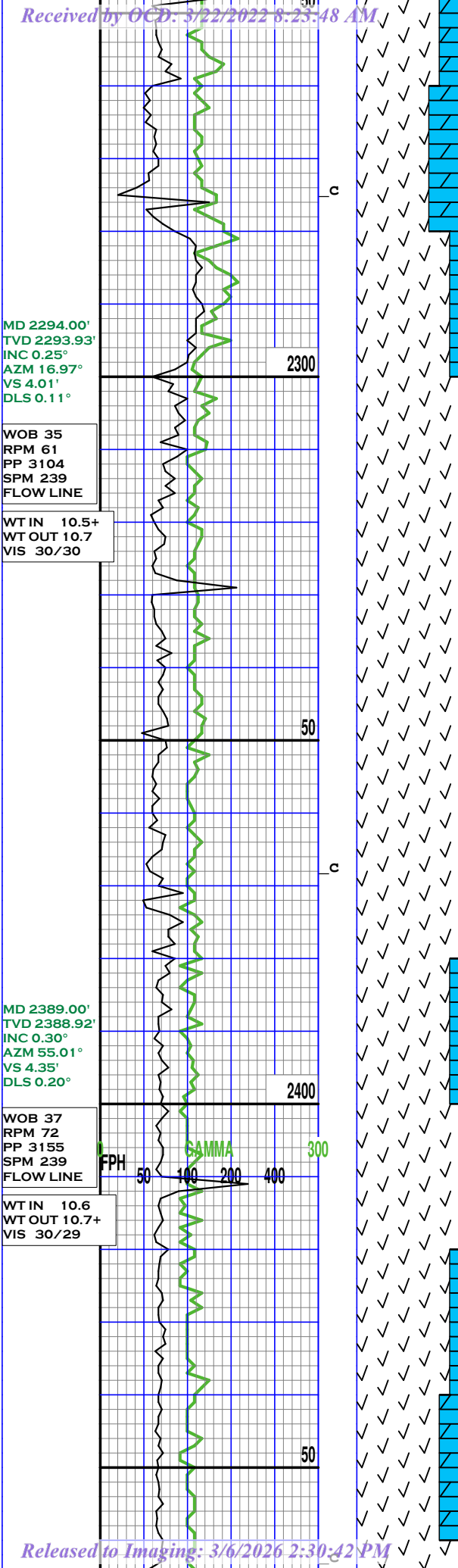
50% ANHY, 30% DOL, 20% SILT,
ANHY: OFFWHT- LT/TN, FRM TO
HRD, VFN TO MED XLN, SUBBLKY
TO SUBRND, NO VIS O-MIN FLUOR,
NO CUT, NO RESID RNG

100% ANHY,
ANHY: OFFWHT- OCC LT/TN, FRM
TO HRD, VFN TO MED XLN, SUBBLKY
TO SUBRND TO OCC BLKY, NO VIS
O-MIN FLUOR, NO CUT, NO RESID
RNG

CG 3 U

CG 4 U

25 50 75 100 125 150 175



80% ANHY, 20% DOL,
ANHY: WHT- OFFWHT- OCC LT/TN,
FRM TO HRD, VFN TO MED XLN,
SUBBLKY TO SUBRND TO OCC BLKY,
NO VIS O-MIN FLUOR, NO CUT, NO
RESID RNG,

CG 8 U

90% ANHY, 10% DOL,
ANHY: WHT- OFFWHT- LT/TN, FRM
TO HRD, VFN XLN, SUBBLKY TO
SUBRND TO OCC BLKY, NO VIS O-
MIN FLUOR, NO CUT, NO RESID
RNG,

100% ANHY,
ANHY: WHT- OFFWHT, FRM TO HRD,
VFN XLN, SUBBLKY TO SUBRND TO
OCC BLKY, NO VIS O-MIN FLUOR,
NO CUT, NO RESID RNG,

CG 8 U

90% ANHY, 10% DOL,
ANHY: WHT- OFFWHT, FRM TO HRD,
VFN TO MED XLN, SUBBLKY TO SUB
RND TO OCC BLKY, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG,

25 50 75 100 125 150 175

80% ANHY, 20% DOL,
ANHY: PREDOM WHT- OFFWHT, FRM
TO HRD, VFN TO MED XLN, SUBBLKY
TO SUB RND TO OCC BLKY, NO VIS
O-MIN FLUOR, NO CUT, NO RESID
RNG,

CG 7 U

MD 2483.00'
TVD 2482.92'
INC 0.27°
AZM 42.28°
VS 4.66'
DLS 0.07°

WOB 47
RPM 68
PP 2557
SPM 239
FLOW LINE

WT IN 10.6
WT OUT 10.7+
VIS 30/29

2500

80% ANHY, 20% DOL,
ANHY: PREDOM WHT- OFFWHT-
SCAT V/LT TN, FRM TO HRD, VFN TO
MED XLN, SUBBLKY TO SUB RND TO
OCC BLKY, NO VIS O-MIN FLUOR,
NO CUT, NO RESID RNG,

50

100% ANHY,
ANHY: WHT- OFFWHT- TN- LT/BRN,
FRM TO HRD, CRPTO XLN, SUBBLKY
TO SUBRND TO OCC BLKY, NO VIS
O-MIN FLUOR, NO CUT, NO RESID
RNG,

CG 7 U

MD 2577.00'
TVD 2576.92'
INC 0.31°
AZM 55.87°
VS 4.96'
DLS 0.08°

WOB 41
RPM 72
PP 3134
SPM 237
FLOW LINE

WT IN 10.6
WT OUT 10.7+
VIS 30/29

2600

90% ANHY, 10% DOL,
ANHY: WHT- OFFWHT, HRD, VFN TO
MED XLN, SUBBLKY TO SUBRND TO
OCC BLKY, NO VIS O-MIN FLUOR,
NO CUT, NO RESID RNG,

25 50 75 100 125 150 175

EDH 52 100 200 400 300
GAMMA

50

60% ANHY, 10% DOL, 10% LS
DOL: XLN CARBNT, LT-M TN -
OFFWHT, BLKY - SUBBLKY - SCAT
SUBRND, HRD - FRM, V/FN - FN XLN,
NO VIS O-MIN FLUOR, NO CUT, NO
RESID RNG.

CG 6 U

MD 2672.00'
TVD 2671.92'
INC 0.27°
AZM 64.82°
VS 5.20'
DLS 0.06°

WOB 44
RPM 71
PP 2758
SPM 238
FLOW LINE

2700

WT IN 10.6
WT OUT 10.7+
VIS 30/29

MD 2766.00'
TVD 2765.92'
INC 0.19°
AZM 10.86°
VS 5.45°
DLS 0.23°

WOB 40
RPM 69
PP 3005
SPM 238
FLOW LINE

2800

WT IN 10.6
WT OUT 10.7+
VIS 30/29

MD 2861.00'
TVD 2860.92'
INC 0.10°
AZM 280.82°
VS 5.62°
DLS 0.23°

WOB 46
RPM 70
PP 3005
SPM 237
FLOW LINE

2900

40% DOL, 60% ANHY
DOL: XLN CARBNT, OF WHT- TN-
MOTT, SUBBLKY - SUBRND, FRM -
FRI, MED - FN XLN, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG.

30% LS, 10% DOL, 60% ANHY,
LS: XLN CARBNT, WHT- TN-LT BRN
MOTT, SUBBLKY - SUBRND, FRM -
FRI, MED - FN XLN, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG.

30% ANHY, 30% DOL, 40% LS
ANHY: WHT- OFFWHT, M-SL FRM,
VFN - MED XLN, SUBBLKY - SUBRND -
OCC BLKY, NO VIS O-MIN FLUOR,
NO CUT, NO RESID RNG,

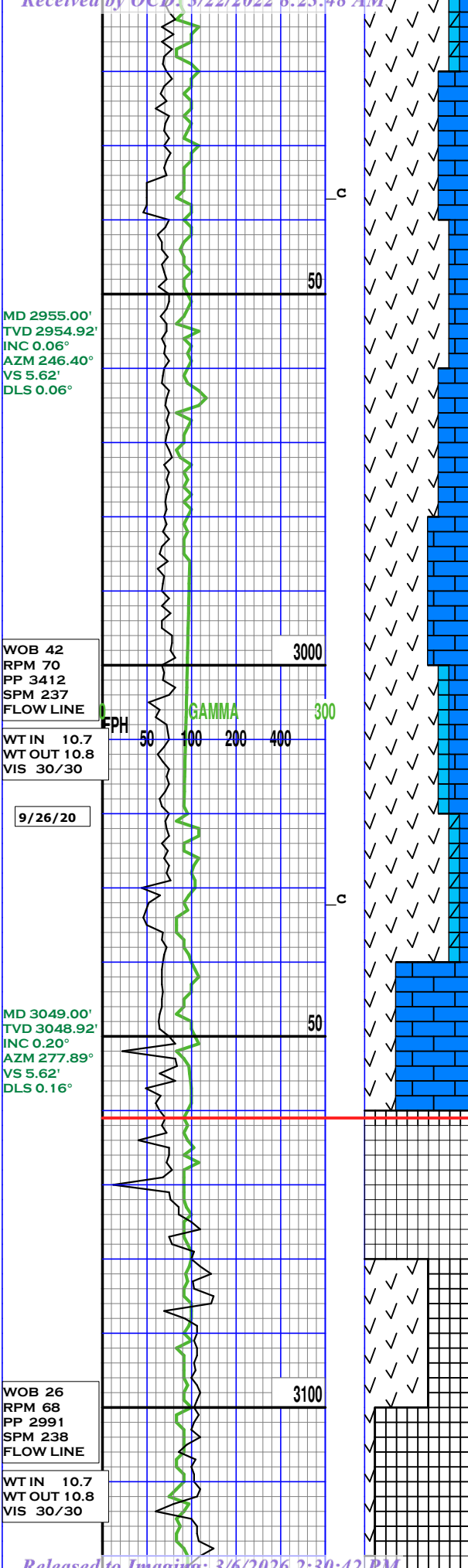
10% DOL, 60% ANHY, 30% LS
DOL: XLN CARBNT, OF WHT- TN-
MOTT, PRED SUBBLKY - SUBRND,
FRM - FRI, MED - FN XLN, NO VIS
O-MIN FLUOR, NO CUT, NO RESID
RNG.

20% LS, 80% ANHY,
LS: XLN CARBNT, WHT- TN OCC LT-M
BRN MOTT, SUBBLKY - SUBRND, FRM

CG 5 U

CG 5 U

25 50 75 100 125 150 175



80% ANHY, 20% LS
ANHY: WHT- OFFWHT LT BRN-LT TN,
M-SL FRM, VFN - MED XLN, SUBBLKY
- SUBRND - BLKY, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG,

40% LS, 60% ANHY,
LS: XLN CARBNT, OF WHT-WHT- TN -
LT-M BRN MOTT, SUBBLKY - SUBRND,
FRM OCC FRI, MED - FN XLN, NO VIS
O-MIN FLUOR, NO CUT, NO RESID
RNG.

30% ANHY, 70% LS
ANHY: PRED WHT- OFFWHT LT BRN
TRLT TN, SL FRM, VFN - MED XLN,
SUBBLKY - SUBRND - BLKY, NO VIS
O-MIN FLUOR, NO CUT, NO RESID
RNG,

SALT B 3061' MD
3060.92' TVD (225.08' SS)

40% SALT, 60% ANHY
SALT: WHT- OPAQ, BRIT - FRM,
AMPH - SUBBLKY, SMTH - GLASY
TXT, NO VIS O-MIN FLUOR, NO CUT,
NO RESID RNG

CG 6 U

CG 6 U

25 50 75 100 125 150 175

MD 3144.00'
TVD 3143.92'
INC 0.18°
AZM 155.67°
VS 5.51'
DLS 0.35°

WOB 25
RPM 68
PP 3012
SPM 237
FLOW LINE

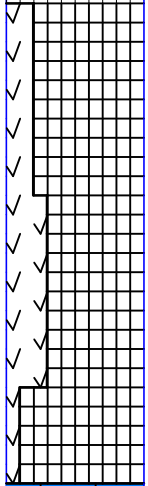
WT IN 10.7
WT OUT 10.8
VIS 30/30

MD 3238.00'
TVD 3237.92'
INC 0.29°
AZM 106.60°
VS 5.30'
DLS 0.23°

WOB 32
RPM 70
PP 3017
SPM 237
FLOW LINE

WT IN 10.7
WT OUT 10.8
VIS 30/30

MD 3333.00'
TVD 3332.92'
INC 0.44°
AZM 111.35°
VS 5.10'
DLS 0.15°



100% SALT
SALT: WHT- OPAQ-TRNSL, BRIT -
SL FRM, AMPH - SUBBLKY, SMTH -
GLASY TXT, NO VIS O-MIN FLUOR,NO
CUT, NO RESID RNG

100% SALT,
SALT: WHT- TRANSL- SCAT OPAQ,
BRIT - FRM, AMPH -SUBBLKY, SMTH-
GLASY TXT, NO VIS O-MIN FLUOR,
NO CUT, NO RESID RNG

90% SALT, 10% ANHY
SALT: WHT- TRANSL- SCAT OPAQ,
BRIT SME M FRM, AMPH -SUBBLKY,
SMTH - GLASY TXT, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG

100% LS
LS: XLN CARBNT, M-LT BRN- TN TR
OF WHT, MOTT, SUBBLKY -SUBRND,
FRI, PRED VFN - FN XLN, NO VIS O-
MIN FLUOR, NO CUT, NO RESID RNG.

ZERO & CALIBRATE GAS
DETECTION EQUIPMENT

CG 5 U

CG 5 U

WOB 34
 RPM 71
 PP 3387
 SPM 237
 FLOW LINE

WT IN 10.7
 WT OUT 10.9
 VIS 29/29

MD 3427.00'
 TVD 3426.91'
 INC 0.73°
 AZM 123.19°
 VS 4.64°
 DLS 0.33°

WOB 26
 RPM 74
 PP 3268
 SPM 239
 FLOW LINE

WT IN 10.7
 WT OUT 10.8
 VIS 30/29

MD 3521.00'
 TVD 3520.90'
 INC 1.02°
 AZM 132.95°
 VS 3.75°
 DLS 0.35°

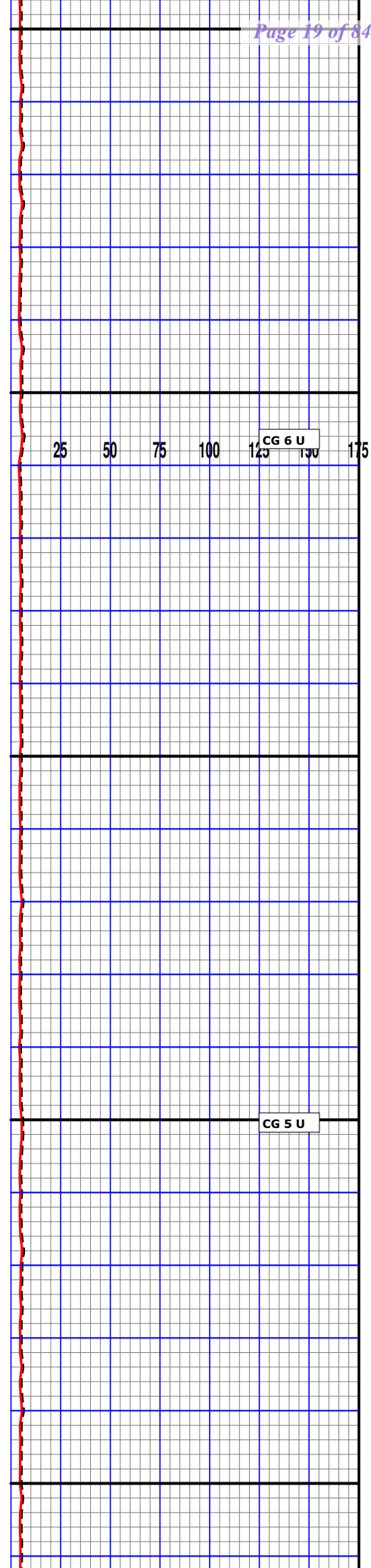
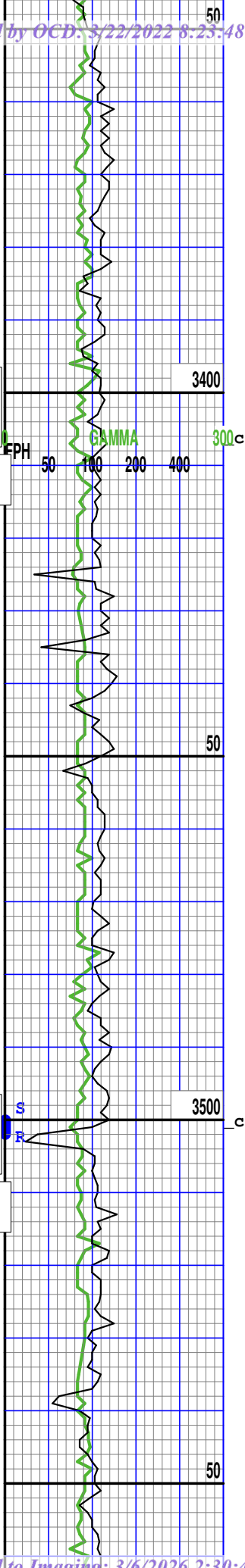
100% SALT
 SALT: WHT- OPAQ- SCAT TRNSL,
 BRIT TO SL FRM, AMPH TO SUBBLKY,
 SMTH - GLASY TXT, NO VIS O-MIN
 FLUOR, NO CUT, NO RESID RNG.

100% SALT
 SALT: PREDOM WHT- OPAQ- SCAT
 TRNSL, BRIT TO SL FRM, AMPH TO
 SUBBLKY, SMTH - GLASY TXT, NO
 VIS O-MIN FLUOR, NO CUT, NO
 RESID RNG.

100% SALT
 SALT: WHT- OPAQ- OFFWHT- TRNSL,
 BRIT TO SL FRM, AMPH TO SUBBLKY,
 SMTH - GLASY TXT, NO VIS O-MIN
 FLUOR, NO CUT, NO RESID RNG.

100% SALT
 SALT: WHT- OFFWHT- TRNSL, BRIT
 TO SL FRM, AMPH TO SUBBLKY,
 SMTH - GLASY TXT, NO VIS O-MIN
 FLUOR, NO CUT, NO RESID RNG.

100% SALT
 SALT: WHT- OFFWHT- OPAQ- SACT
 TRNSL, BRIT TO SL FRM, AMPH TO
 SUBBLKY, SMTH - GLASY TXT, NO
 VIS O-MIN FLUOR, NO CUT, NO
 RESID RNG.



WOB 18
RPM 59
PP 3302
SPM 239
FLOW LINE

WT IN 10.7+
WT OUT 10.8
VIS 30/28

MD 3616.00'
TVD 3615.89'
INC 0.86°
AZM 129.21°
VS 2.73'
DLS 0.18°

MD 3699.00'
TVD 3698.88'
INC 0.99°
AZM 127.80°
VS 1.89'
DLS 0.16°

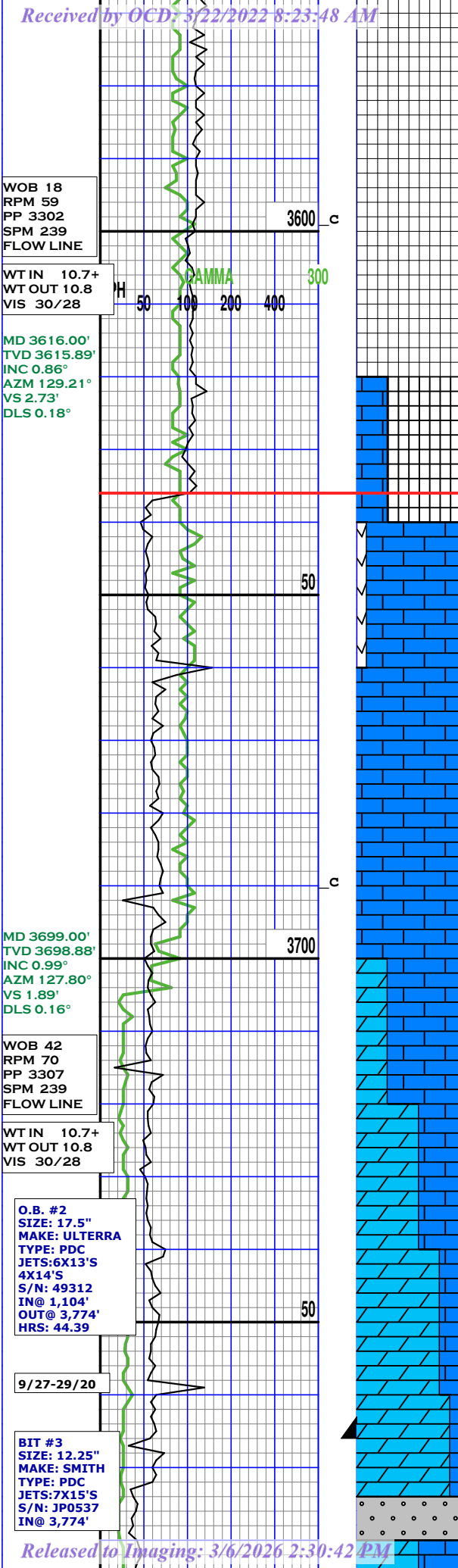
WOB 42
RPM 70
PP 3307
SPM 239
FLOW LINE

WT IN 10.7+
WT OUT 10.8
VIS 30/28

O.B. #2
SIZE: 17.5"
MAKE: ULTERRA
TYPE: PDC
JETS: 6X13'S
4X14'S
S/N: 49312
IN@ 1,104'
OUT@ 3,774'
HRS: 44.39

9/27-29/20

BIT #3
SIZE: 12.25"
MAKE: SMITH
TYPE: PDC
JETS: 7X15'S
S/N: JP0537
IN@ 3,774'



100% SALT
SALT: WHT- OFFWHT- TRNSL, BRIT
TO SL FRM, AMPH TO SCAT SUBBLKY,
SMTH - GLASY TXT, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG.

BASE OF SALT 3636' MD
3635.89' TVD (-349.89' SS)

90% LS, 10% ANHY,
LS: XLN CARBNT, TN TO OFFWHT
TO MOTT, SUBBLKY -SUBRND, FRI,
PRED VFN - FN XLN, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG.

100% LS,
LS: XLN CARBNT, TN TO OFFWHT
TO OCC OPAQ, SUBBLKY -SUBRND,
FRI, PRED VFN - FN XLN, NO VIS
O-MIN FLUOR, NO CUT, NO RESID
RNG.

80% DOL, 20% LS,
DOL: XLN CARBNT, OFFWHT- LT/TN,
SUBBLKY TO SUBRND, FRM TO OCC
HRD, V/FN - FN XLN, NO VIS O-MIN
FLUOR, NO CUT, NO RESID RNG.

CG 4 U

25 50 75 100 125 150 175

CARBIDE BOMB TEST

CG 8 U

SET 13 3/8" CASING @ 3,764'
CEMENT TO SURFACE, 211 BLS

TRIP

TG 45 U

MD 3799.00'
TVD 3798.87'
INC 0.39°
AZM 110.37°
VS 1.24'
DLS 0.63°

WOB 39
RPM 40
PP 1980
SPM 180
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 57/57

OBM: 09/29/20

MD 3893.00'
TVD 3892.87'
INC 0.28°
AZM 346.68°
VS 135.00'
DLS 0.63°

WOB 16
RPM 65
PP 2235
SPM 239
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 57/57

MD 3988.00'
TVD 3987.86'
INC 0.96°
AZM 288.66°
VS 1.83'
DLS 0.89°

WOB 31
RPM 64

3800

300c

50

3900

50

4000

60% DOL, 40% LS,
DOL: XLN CARBNT, OFFWHT- LT/
TN, PREDOM SUBBLKY TO SUBRND,
FRM TO HRD, V/FN - FN XLN, NO
VIS MIN FLUOR,

DELAWARE 3827' MD
3826.87' TVD (-540.87' SS)

80% SILT, 20% LS,
SILT, OFFWHT- WHT - V/LTGRY, FRI,
CRS GRN, W SORT, SUBANG TO SUB
RND, CAALC CMNT NO VIS PORO NO
-MIN FLUOR,

BELL CANYON SS 3886' MD
3885.87' TVD (-599.87' SS)

80% SILT, 20% LS,
SILT, PREDOM OFFWHT- WHT- V/LT
GRY, FRI, CRS GRN, W SORT, SUBANG
TO SUB RND, CALC CMNT, NO VIS
PORO NO -MIN FLUOR,

80% SS, 20% SI,
SS: WHT- OFFWHT- OCC CRM, LSLY
CONSOL, SUBRND TO SUBANG TO
RND, V/FN GRN, W SORT, CALC
CMNT, NO MIN FLOUR,

100% SS,
SS: WHT- OFFWHT, LSLY CONSOL,
SUBRND TO SUBANG TO RND, V/FN
GRN, W SORT, CALC CMNT, NO MIN

25 50 75 100 125 150 175
CG 46 U

CG 59 U

CG 78 U

MD 4082.00'
TVD 4081.85'
INC 1.35°
AZM 226.04°
VS 1.37'
DLS 1.25°

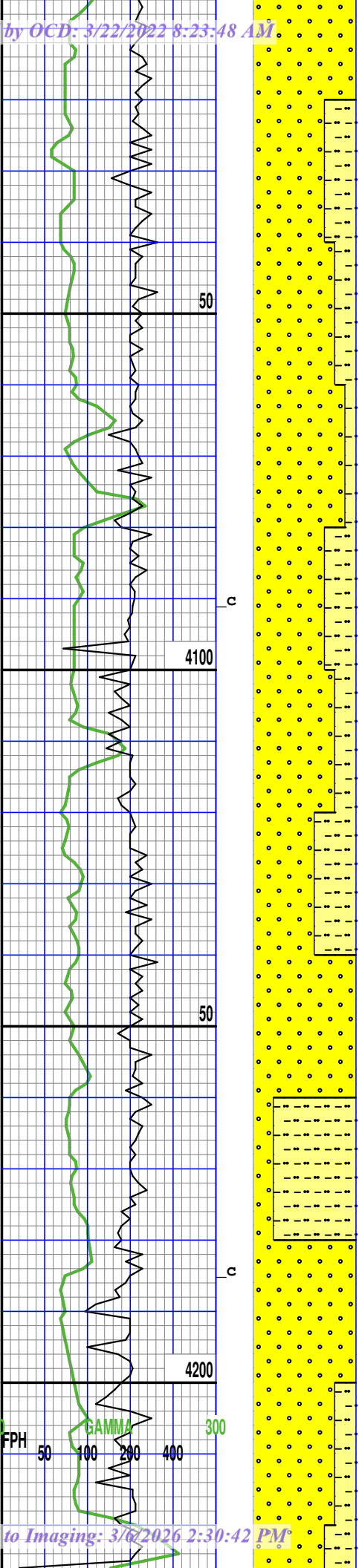
WOB 23
RPM 65
PP 2688
SPM 228
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 57/57

MD 4177.00'
TVD 4176.83'
INC 0.99°
AZM 158.50°
VS -0.11'
DLS 1.33°

WOB 42
RPM 65
PP 2629
SPM 225
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 57/57

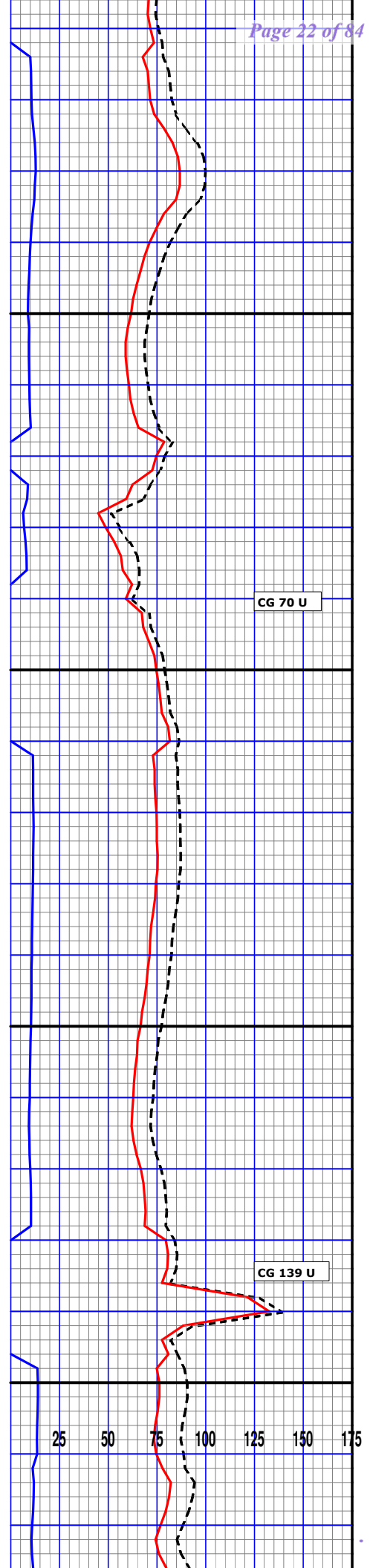


80% SS, 20% SI,
SS: WHT- OFFWHT- V/LTGRY,
LSLY CONSOL, SUBRND TO RND,
V/FN GRN, W SORT, CALC CMNT,
NO MIN FLOUR,

70% SS, 30% SI,
SS: PREDOM WHT- OFFWHT- V/LT
GRY, LSLY TO MOD CONSOL, SUB
RND TO RND, V/FN GRN, W SORT,
CALC CMNT, NO MIN FLOUR,

100% SS,
SS: WHT- OFFWHT- V/LTGRY, LSLY
TO MOD CONSOL, SUBRND, V/FN
GRN, W SORT, CALC CMNT, NO MIN
FLOUR,

100% SS,
SS: WHT- OFFWHT- V/LTGRY, LSLY
TO MOD CONSOL, SUBRND TO OCC
SUBANG, V/FN GRN, W SORT, CALC
CMNT, NO MIN FLOUR,



MD 4271.00'
TVD 4270.82'
INC 1.17°
AZM 91.01°
VS -0.89'
DLS 1.29°

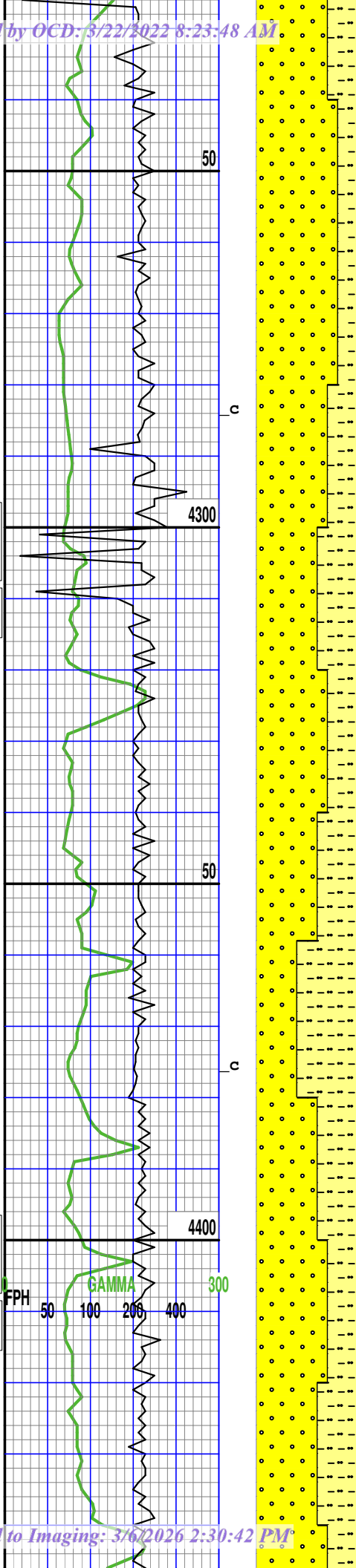
WOB 41
RPM 64
PP 2704
SPM 225
FLOW LINE

WT IN 8.6
WT OUT 8.6
VIS 57/57

MD 4365.00'
TVD 4364.80'
INC 1.26°
AZM 26.52°
VS 0.02'
DLS 1.38°

WOB 35
RPM 65
PP 2777
SPM 224
FLOW LINE

WT IN 8.6
WT OUT 8.6
VIS 57/57

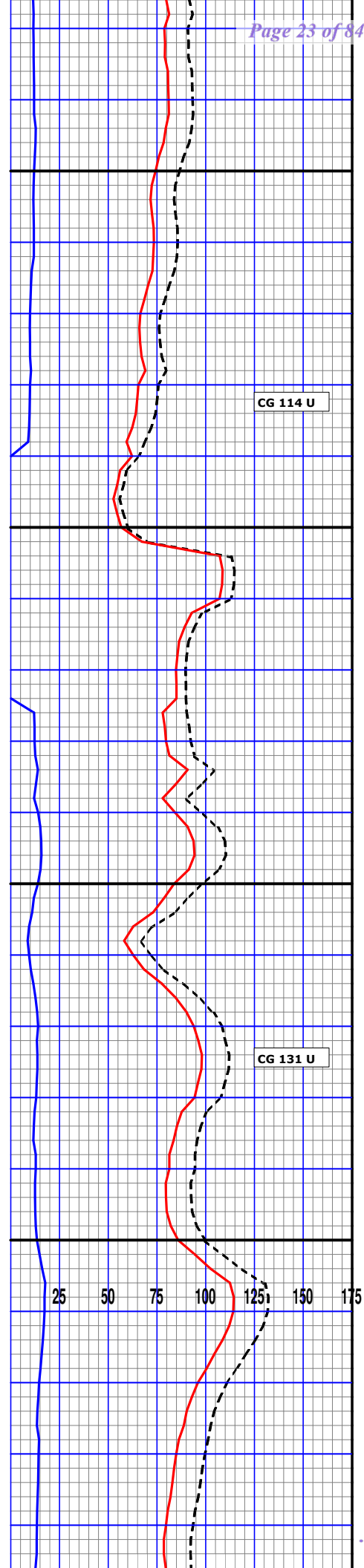


80% SS, 20% SI,
SS: WHT- OFFWHT- LTGRY, LSLY
TO MOD CONSOL, SUBRND TO SUB
ANG, V/FN GRN, W SORT, CALC
CMNT, NO MIN FLOUR,

70% SS, 30% SI,
SS: WHT- OFFWHT- SCAT LTGRY,
LSLY TO MOD CONSOL, SUBRND TO
SUBANG, V/FN TO OCC FN GRN, W
SORT, CALC CMNT, NO MIN FLOUR,

60% SS, 40% SI,
SS: WHT- OFFWHT- LTGRY, LSLY TO
MOD CONSOL, SUBRND TO SUBANG,
V/FN TO OCC FN GRN, W SORT,
CALC CMNT, NO MIN FLOUR,

90% SS, 10% SI,
SS: WHT- OFFWHT, PREDOM LSLY
CONSOL, SUBRND TO SUBANG TO
RND, V/FN GRN, W SORT, CALC
CMNT, NO MIN FLOUR,



CG 114 U

CG 131 U

25 50 75 100 125 150 175

MD 4460.00'
TVD 4459.79'
INC 1.10°
AZM 380.20°
VS 1.52'
DLS 1.57°

WOB 34
RPM 59
PP 3123
SPM 239
FLOW LINE

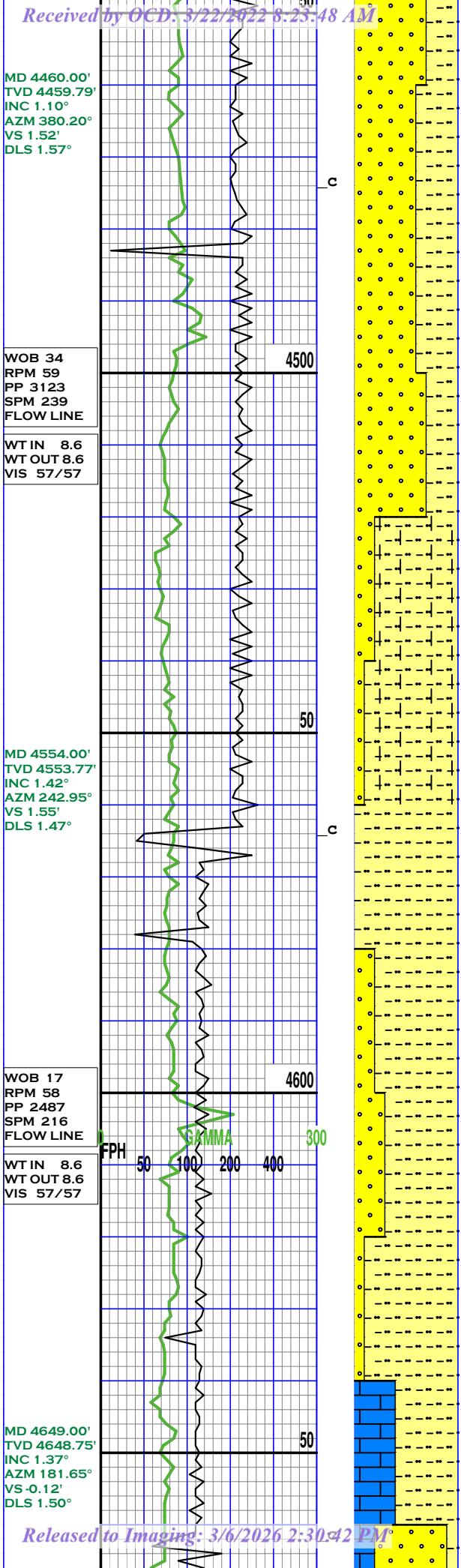
WT IN 8.6
WT OUT 8.6
VIS 57/57

MD 4554.00'
TVD 4553.77'
INC 1.42°
AZM 242.95°
VS 1.55°
DLS 1.47°

WOB 17
RPM 58
PP 2487
SPM 216
FLOW LINE

WT IN 8.6
WT OUT 8.6
VIS 57/57

MD 4649.00'
TVD 4648.75'
INC 1.37°
AZM 181.65°
VS -0.12°
DLS 1.50°



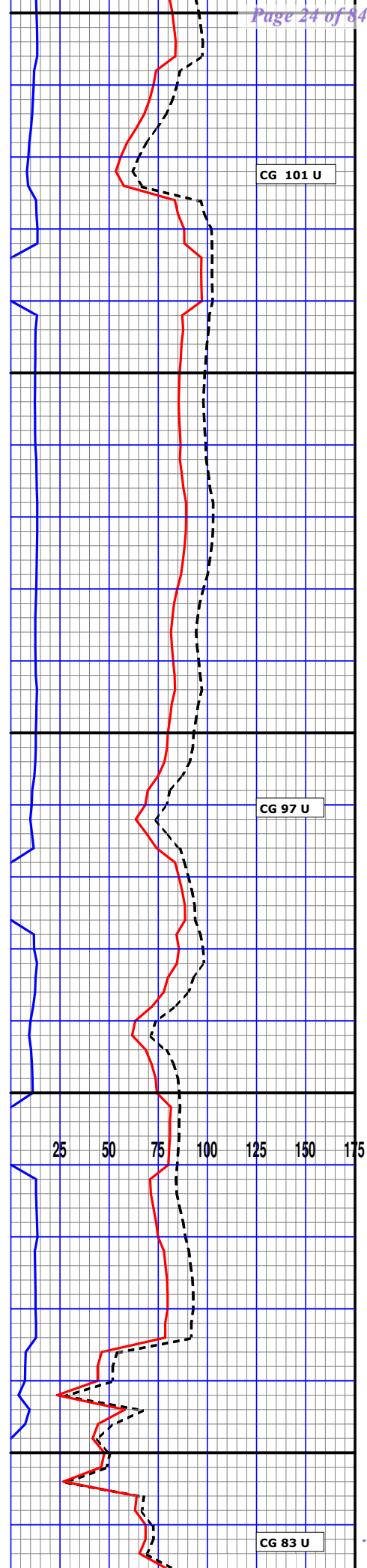
100% SS,
SS: WHT- OFFWHT SCAT LT/GRY,
LSLY TO MOD CONSOL, SUBRND TO
SUBANG TO RND, V/FN TO FN GRN,
W SORT, CALC CMNT, NO MIN
FLOUR,

60% SS, 40% SI,
SS: WHT- OFFWHT- SCAT LT/GRY-
GRY, LSLY TO MOD CONSOL, SUB
RND TO SUBANG TO RND, V/FN
TO FN GRN, W SORT, CALC CMNT,
NO MIN FLOUR,

90% SI, 10% SS,
SI: MEDGRY- OFFWHT- LT/GRY, MOD
WL CONSOL, SUBRND TO SUBANG TO
RND, V/FN CRS TO V/CRS GRN, W
SORT, CALC CMNT, NO MIN FLOUR,

80% SI, 20% SS,
SI: MEDGRY- OFFWHT- LT/GRY,
MOD- WL CONSOL, SUBRND -
SUBANG OCC RND, V/FN CRS -
V/CRS GRN, W SORT, CALC CMNT,
NO MIN FLOUR,

40% LS, 60% SI,
LS: WKSTN, M-LT BRN SME TN-LT
GRY, SUBBLKY - BLKY, SL HRD - FRM,
FN XLN, NO MIN FLOUR



WOB 21
RPM 75
PP 2366
SPM 210
FLOW LINE

4700

WT IN 8.6
WT OUT 8.6
VIS 57/57

MD 4743.00'
TVD 4742.72'
INC 1.57°
AZM 125.01°
VS -1.99'
DLS 1.50°

50

60% SI, 30% SS, 10% LS
SI: MEDGRY- OFFWHT- LT/GRY,
MOD- WL CONSOL, SUBRND -
SUBANG, V/FN CRS - V/CRS GRN, W
SORT, CALC CMNT, NO MIN FLOUR,

CHERRY CANYON 4748' MD
4747.72' TVD (-1461.72' SS)

90% SS, 10% SI,
SS: WHT- OFFWHT- SCAT LT/GRY-
GRY, WL - MOD CONSOL, SUB
RND - SUBANG - RND, V/FN - FN
GRN, W SORT, CALC CMNT, NO MIN
FLOUR,

CG 89 U

WOB 25
RPM 74
PP 2539
SPM 215
FLOW LINE

4800

WT IN 8.7
WT OUT 8.7
VIS 57/57

MD 4838.00'
TVD 4837.69'
INC 1.57°
AZM 64.24°
VS -2.17'
DLS 1.67°

50

70% SS, 10% SI, 20% LS
SS: WHT- OFFWHT- SCAT LT GRY,
WL - MOD CONSOL, SUB RND -
SUBANG - RND, V/FN - FN GRN, W
SORT, CALC CMNT, NO MIN FLOUR,

25 50 75 100 125 150 175

20% LS, 80% SS,
LS: WKSTN - XLN CARBNT, WHTV/
LTGRY SCAT MEDGRY, SUBBLKY -
SUBRND - PLTY, PRED FRI - FRM,
FN XLN, NO MIN FLOUR,

CG 68 U

WOB 25
RPM 61
PP 2433
SPM 216
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 58/58

MD 4932.00'
TVD 4931.66'
INC 1.57°
AZM 358.22°
VS -0.32'
DLS 1.82°

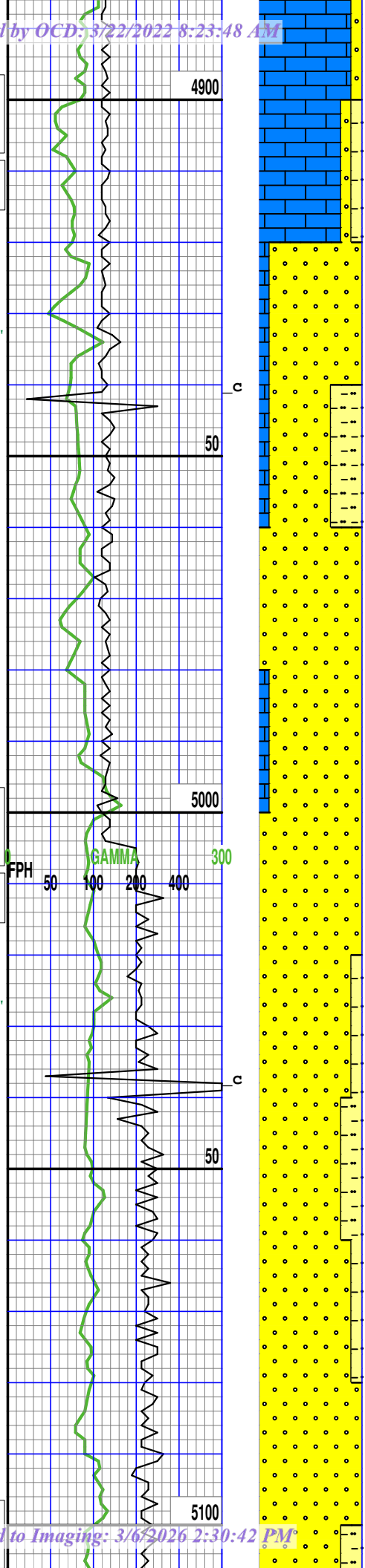
WOB 33
RPM 65
PP 2385
SPM 210
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 59/59

MD 5026.00'
TVD 5025.62'
INC 1.92°
AZM 303.76°
VS 1.84'
DLS 1.73°

WOB 32
RPM 63
PP 2385
SPM 210
FLOW LINE

Released to Imaging: 3/6/2026 2:30:42 PM



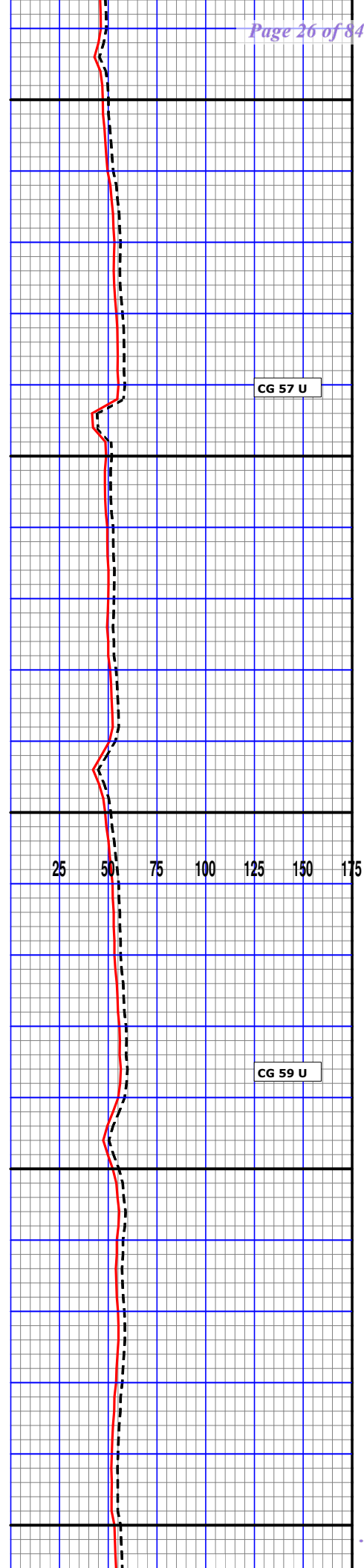
90% LS, 10% SS,
LS: WKSTN - XLN CARBNT, OFWH
OCC TN TR LTGRY SCAT MEDGRY,
SUBBLKY -SUBRND - PLTY, PRED SL
HRD SME FRI - FRM, FN XLN, NO MIN
FLOUR

30% SI, 60% SS, 10% LS
SI: MEDGRY- OFFWHT- LT/GRY,
MOD- WL CONSOL, SUBRND -
SUBANG, V/FN - V/CRS GRN, W
SORT, CALC CMNT, NO MIN FLOUR,

90% SS, 10% LS
SS: OFFWHT- VLT GRY, WL - MOD
CONSOL, SUB RND - SUBANG - RND,
V/FN - FN GRN, W SORT, CALC
CMNT, NO MIN FLOUR,

80% SS, 20% SI
SS: LTGRY- GRY- OFFWHT, MOD
CONSOL, FN - SCAT MED GRN,
BRIT - FRM, SUBANG, CALC CMNT,
MED SME FN TXT, WL SRT, NO MIN
FLUOR

80% SS, 20% SI
SI: DRKGRY- BLK- V/DRKGRY, MOD
FRM - HRD CONSOL, V/FN GRN,



MD 5121.00'
TVD 5120.58'
INC 1.65°
AZM 251.74°
VS 2.30°
DLS 1.67°

WOB 42
RPM 76
PP 2319
SPM 210
FLOW LINE

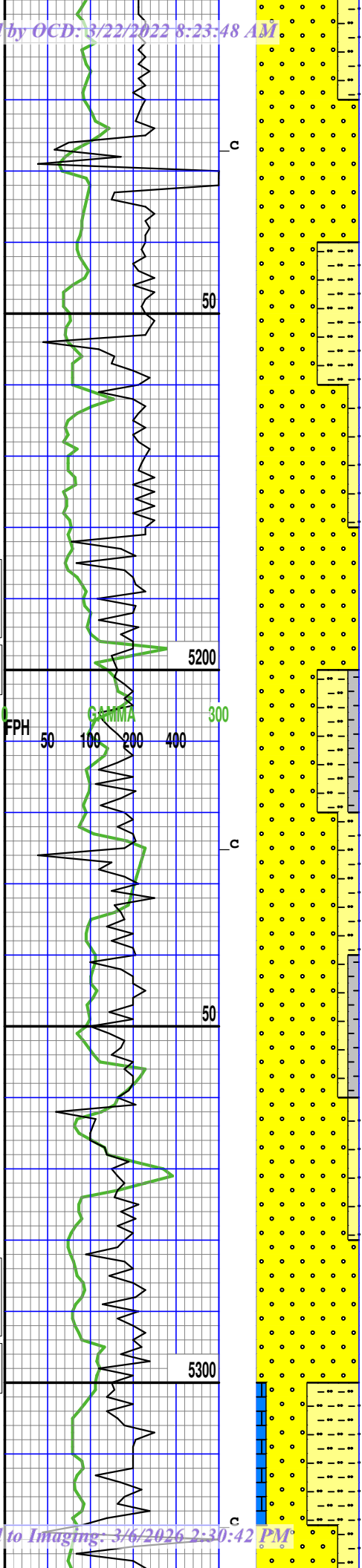
WT IN 8.8
WT OUT 8.8
VIS 59/59

MD 5215.00'
TVD 5214.55'
INC 1.46°
AZM 196.52°
VS 0.73°
DLS 1.54°

WOB 19
RPM 74
PP 2158
SPM 210
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 59/59

MD 5309.00'
TVD 5308.53'
INC 1.35°
AZM 147.01°
VS -1.35°
DLS 1.26°

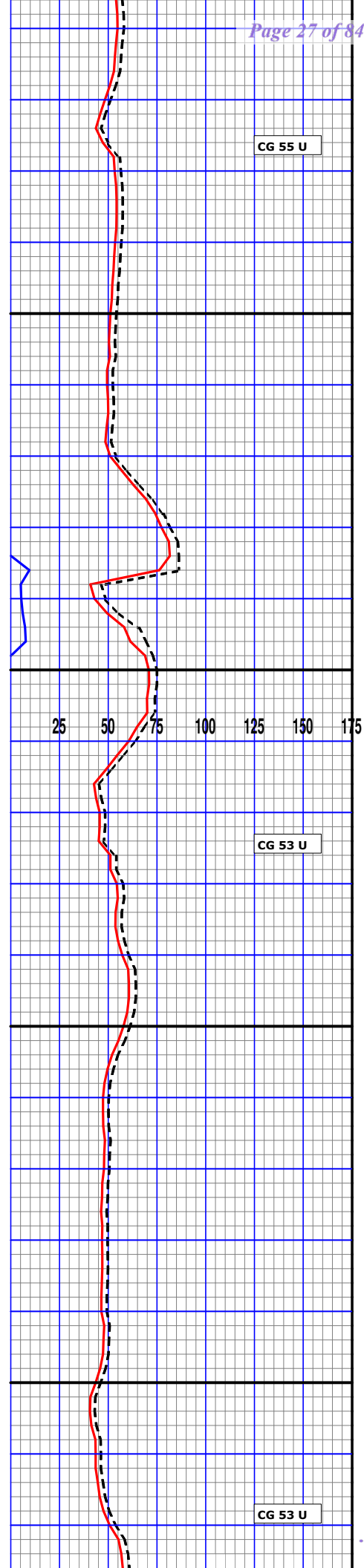


60% SS, 40% SI
SS: LTGRY- GRY- L TN TR DRK GRY,
MOD CONSOL, FN SME M GRN, BRIT
-FRM, SUBANG, CALC CMNT, VFN
SME FN TXT, WL SRT, NO MIN FLUOR

100% SS
SS: LTGRY- GRY- L TN TR DRK GRY,
MOD CONSOL, FN - M GRN, BRIT -
FRM, SUBANG, CALC CMNT, VFN -
FN TXT, WL SRT, NO MIN FLUOR

80% SS, 10% SI, 10% SH
SI: PRED BLK-DRKGRY, MOD FRM -
HRD CONSOL, FN-VFN GRN, SUBANG
- SUBRND TR ANG, MED - FN TXT, WL
SRT, NO MIN FLUOR

100% SS
SS: LTGRY- GRY, MOD CONSOL, FN -
M GRN, BRIT -FRM, SUBANG, CALC
CMNT, VFN -FN TXT, WL SRT, NO MIN
FLUOR



WOB 31
RPM 74
PP 2535
SPM 210
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 59/59

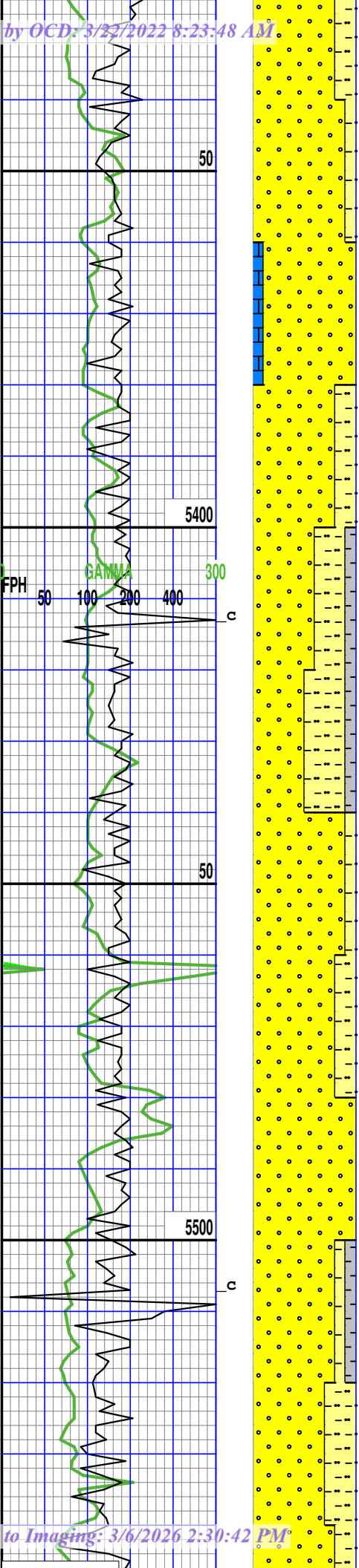
MD 5404.00'
TVD 5403.51'
INC 1.12°
AZM 87.70°
VS -2.25'
DLS 1.30°

9/30/20

MD 5498.00'
TVD 5497.50'
INC 0.42°
AZM 69.26°
VS -2.09'
DLS 0.78°

WOB 29
RPM 74
PP 2440
SPM 210
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 62/62

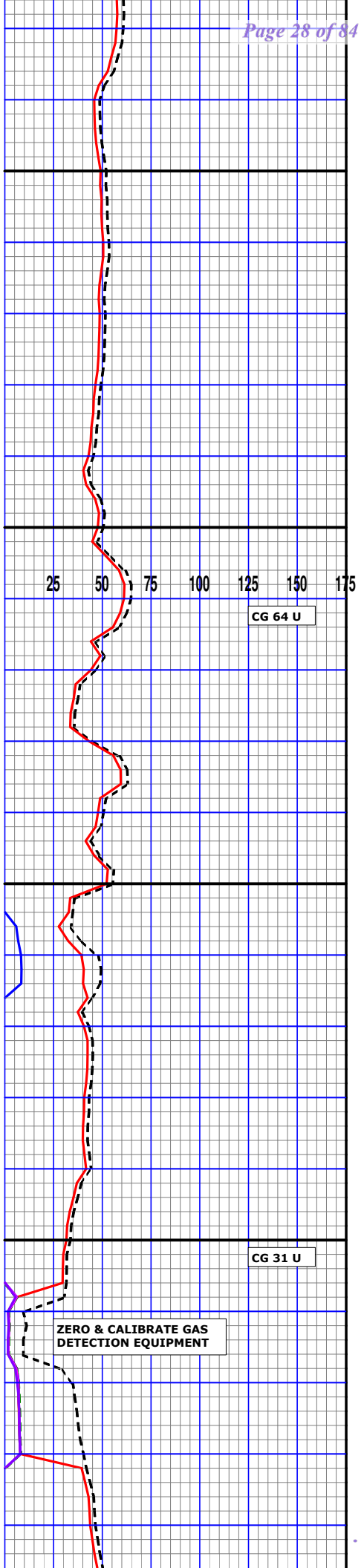


90% SS, 10% SI
SS: M-LTGRY OCC GRY -TR DRK GRY,
WL- MOD CONSOL, FN - M GRN,
PRED BRIT - FRI -SL FRM, RND-
SUBANG, CALC CMNT, VFN -FN TXT,
WL SRT, NO MIN FLUOR

60% SS, 30% SI, 10% SH
SS: M-LTGRY OCC GRY -TR DRK GRY,
WL- MOD CONSOL, FN - M GRN,
PRED BRIT - FRI -SL FRM, SBRND
SME SUBANG, CALC CMNT, VFN -FN
TXT, WL SRT, NO MIN FLOUR

90% SS, 10% SI
SI: BLK-DRKGRY, V FRM - HRD, WL
CONSOL, FN-VFN GRN, SUBANG
- SBRND - ANG, MED - FN TXT, WL
SRT, NO MIN FLOUR

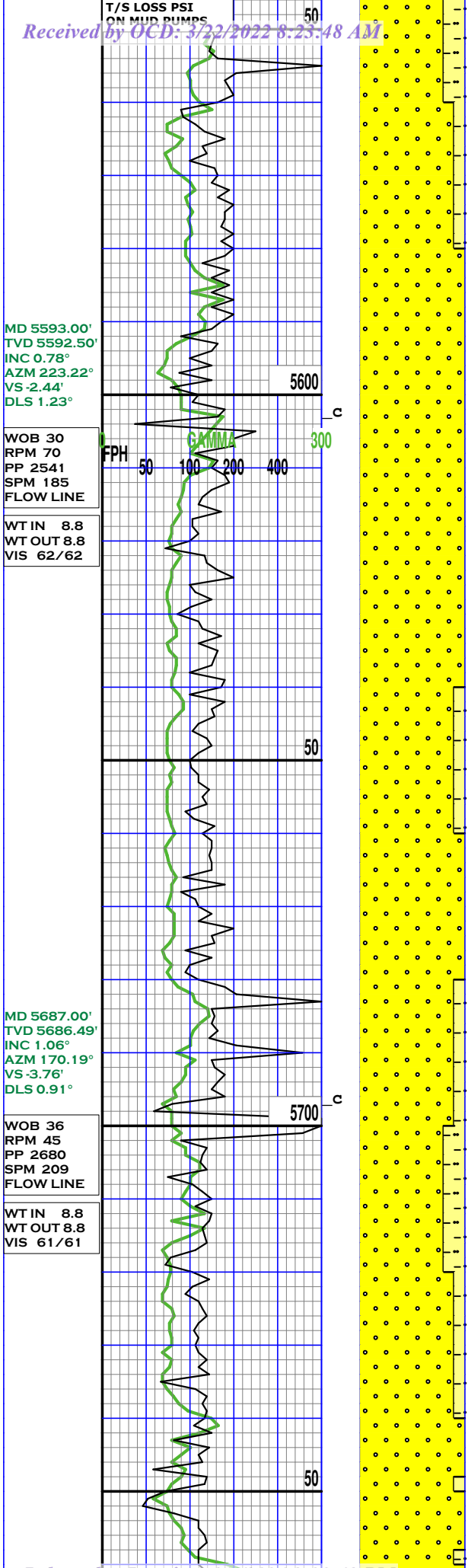
100% SS
SS: M-LTGRY -GRY, WL- MOD
CONSOL, FN - M GRN, FRI -SL FRM,
SBRND SME SUBANG, CALC CMNT,
VFN -FN TXT, WL SRT, NO MIN
FLOUR



ZERO & CALIBRATE GAS
DETECTION EQUIPMENT

CG 64 U

CG 31 U



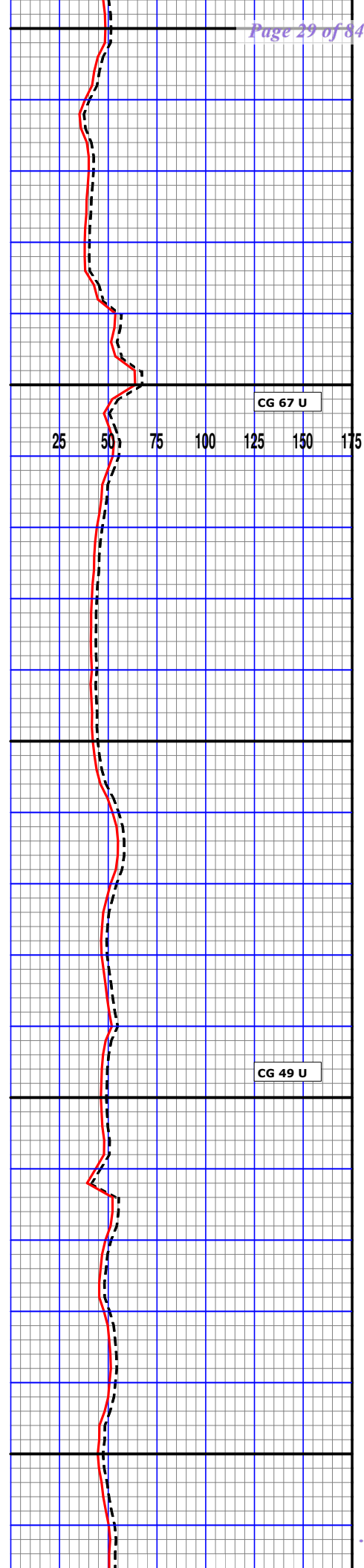
80% SS, 20% SI
SS: M-LTGRY -GRY, WL CONSOL, VFN
GRN, FRI -SL FRM, SBRND SME
SUBANG, CALC CMNT, VFN -FN TXT,
WL SRT, NO MIN FLOUR

100% SS
SS: LTGRY- MED- V/LTGRY, WL -
MOD CONSOL, FN - MED GRN,
BRIT - FRI - FRM, SUBRND- SUB
ANG, CALC CMNT, WL SRT, NO MIN
FLOUR

90% SS, 10% SI
SS: LTGRY- MED- GRY, WL -MOD
CONSOL, FN - MED GRN, PRED FRI -
M-V FRM, SUBRND- SUBANG, CALC
CMNT, WL SRT, NO MIN FLOUR

90% SS, 10% SI
SI: BLK-DRKGRY, V FRM - SL HRD,
V WL CONSOL, FN-VFN GRN,
SUBANG- SUBRND - ANG, VFN - FN
TXT, WL SRT, NO MIN FLOUR

100% SS
SS: LTGRY- MED- GRY, WL -MOD
CONSOL, FN - MED GRN, PRED FRI -
M-V FRM, SUBRND OCC SUBANG,
CALC CMNT, WL SRT, SL TR FREE
SLTSTN, NO MIN FLOUR



MD 5782.00'
TVD 5781.47'
INC 1.37°
AZM 106.37°
VS -4.95'
DLS 1.38°

WOB 30
RPM 60
PP 2282
SPM 209
FLOW LINE

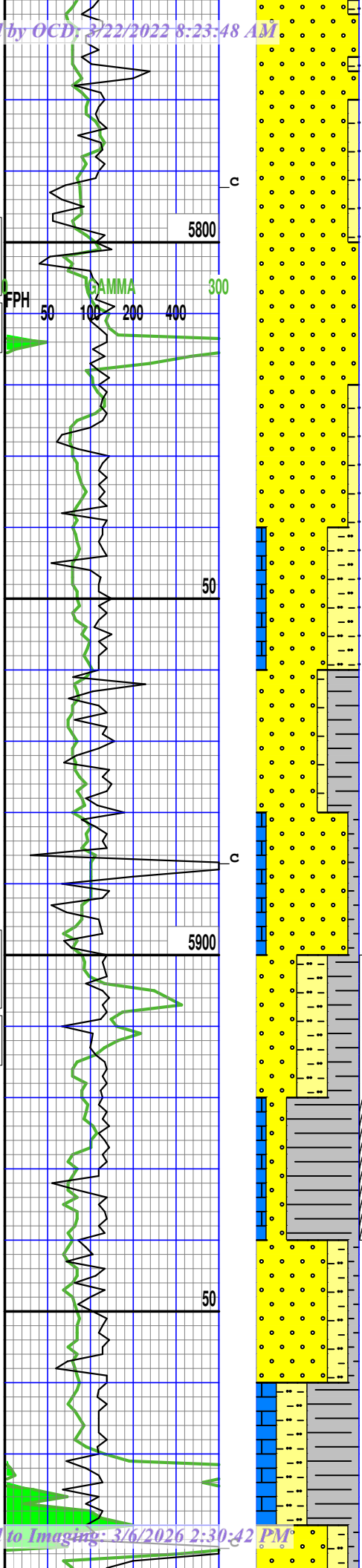
WT IN 8.8
WT OUT 8.8
VIS 61/61

MD 5876.00'
TVD 5875.45'
INC 1.08°
AZM 47.26°
VS -4.67'
DLS 1.31°

WOB 32
RPM 75
PP 2346
SPM 209
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 61/61

MD 5971.00'
TVD 5970.44'
INC 0.95°
AZM 348.38°
VS -3.29'
DLS 1.06°

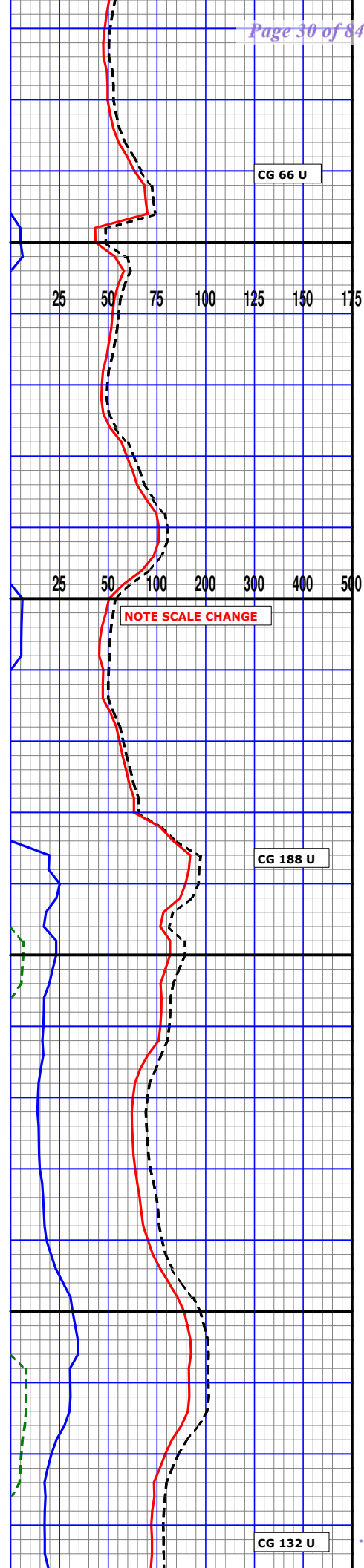


90% SS, 10% SI
SS: LTGRY- MGRY, WL CONSOL, FN -
MED GRN, PRED FRI SCAT FRM,
SUBRND OCC SUBANG, CALC CMNT,
WL SRT, NO MIN FLOUR

60% SS, 30% SI, 10% LS,
SS: LTGRY- MGRY, MOD TO WL
CONSOL, V/FN - FN GRN, FRM TO
OCC FRI, SUBRND TO SUBANG, WL
SORT, CALC CMNT, NO MIN FLOUR,

80% SS, 10% SI, 10% SH,
SS: LTGRY- MGRY- OCC GRY, MOD
TO WL CONSOL, V/FN - FN GRN, FRM
TO OCC FRI, SUBRND TO SUBANG,
WL SORT, CALC CMNT, DULL YEL MIN
FLOUR,

70% SS, 20% SI, 10% SH,
SS: LTGRY- OFFWHT, MOD TO WL
CONSOL, V/FN - FN GRN, FRM TO
OCC FRI, SUBRND TO SUBANG, WL
SORT, CALC CMNT, NO MIN FLOUR,



WOB 30
RPM 75
PP 2758
SPM 210
FLOW LINE

WT IN 8.85
WT OUT 8.85
VIS 61/61

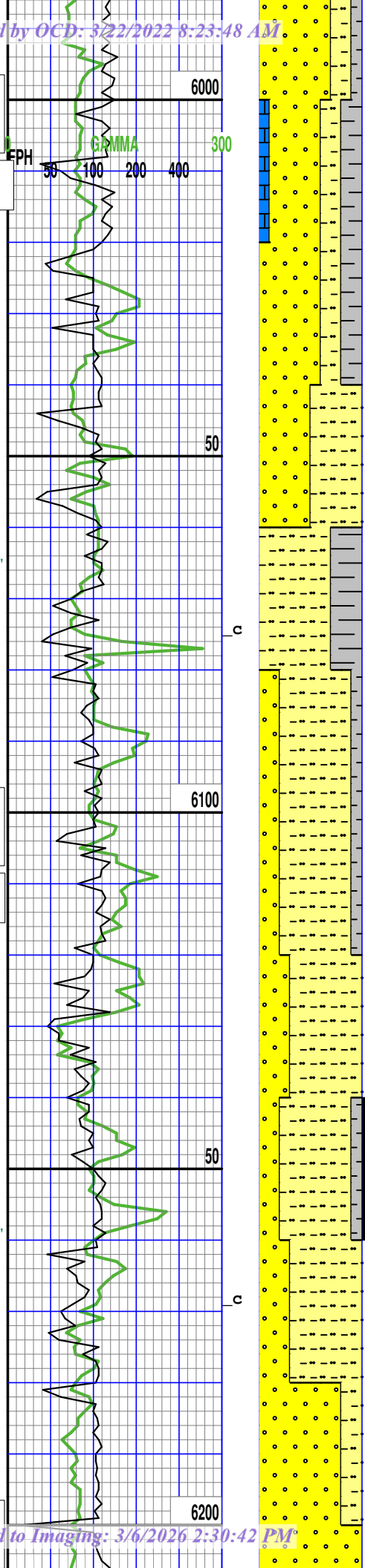
MD 6065.00'
TVD 6064.43'
INC 0.84°
AZM 285.98°
VS -2.33'
DLS 0.99°

WOB 34
RPM 75
PP 2602
SPM 209
FLOW LINE

WT IN 8.6
WT OUT 8.6
VIS 61/61

MD 6159.00'
TVD 6158.42'
INC 0.78°
AZM 236.07°
VS -2.50'
DLS 0.73°

WOB 37
RPM 75
PP 2758
SPM 210
FLOW LINE



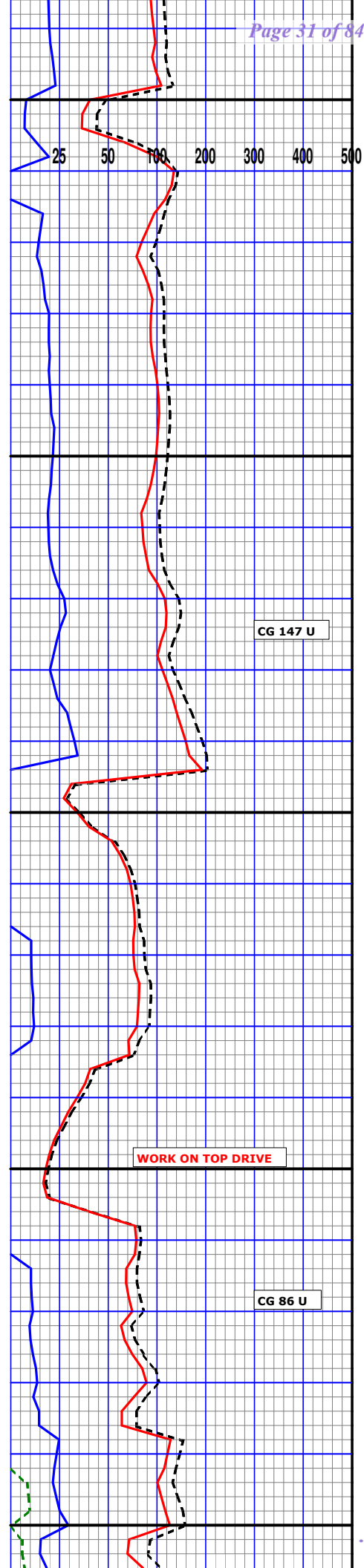
70% SS, 20% SI, 10% SH,
SS: LTGRY- OFFWHT, MOD TO WL
CONSOL, V/FN - FN GRN, FRM TO
HRD TO OCC FRI, SUBRND TO SUB
ANG, WL SORT, CALC CMNT, NO MIN
FLOUR,

50% SS, 50% SI,
SI: DRKGRY- GRY, WL CONSOL, V/FN
- FN GRN, FRM TO HRD TO OCC FRI,
SUBRND TO SUBANG, WL SORT, ARG
CMNT, NO MIN FLOUR,

70% SI, 20% SS, 10% SH,
SI: DRKGRY- GRY- BRNISH GRY, WL
CONSOL, V/FN - FN GRN, FRM TO
HRD TO OCC FRI, SUBRND TO
SUBANG, WL SORT, ARG CMNT, NO
MIN FLOUR,

70% SI, 20% SS, 10% SH,
SI: DRKGRY- GRY- MEDGRY, WL
CONSOL, V/FN - FN GRN, FRM TO
HRD TO OCC FRI, SUBRND TO SUB
ANG, WL SORT, CALC CMNT, OCC
BRI YEL MIN FLOUR,

80% SS, 20% SI,
SS: WHT- OFFWHT- V/LT GRY, MOD
TO WL CONSOL, V/FN - OCC FN



CG 147 U

WORK ON TOP DRIVE

CG 86 U

MD 6254.00'
TVD 6253.42'
INC 0.50°
AZM 183.78°
VS -3.28'
DLS 0.56°

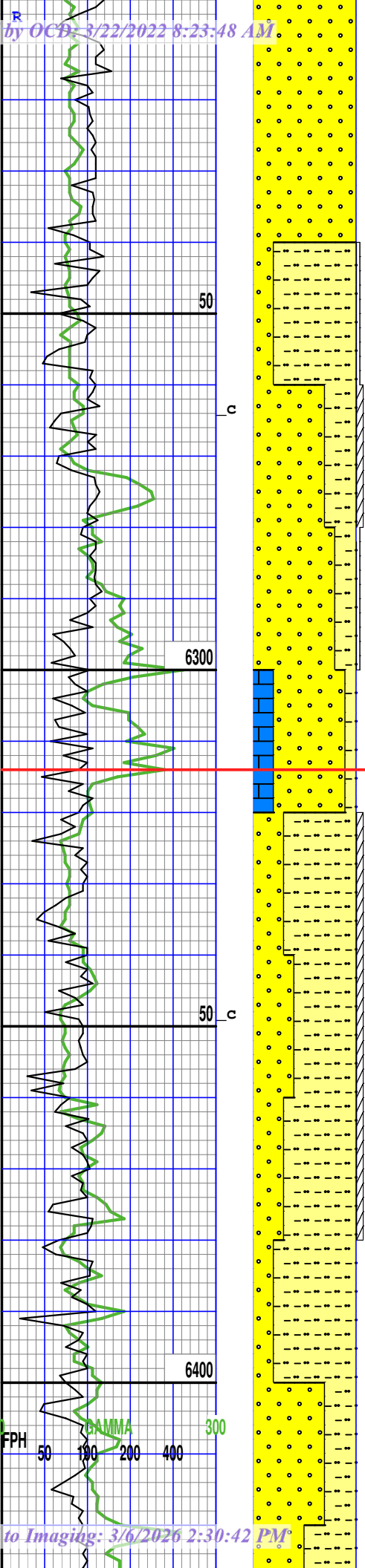
WOB 28
RPM 75
PP 2435
SPM 210
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 61/61

MD 6348.00'
TVD 6347.41'
INC 0.56°
AZM 139.71°
VS -4.04'
DLS 0.43°

WOB 32
RPM 81
PP 2480
SPM 210
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 61/61

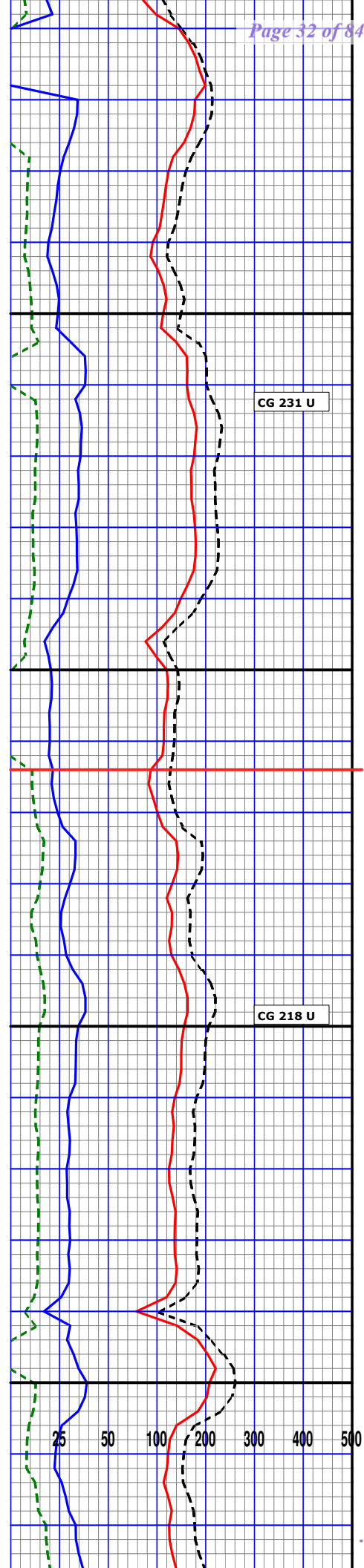


80% SI, 20% SS,
SI: DRKGRY- GRY- BRNISH GRY, WL
CONSOL, FN - CRS GRN, FRM TO
HRD TO OCC BRIT, SUBRND TO SUB
ANG, WL SORT, CALC IP, ARG CMNT,
SCAT DULL YEL MIN FLOUR,

80% SS, 20% SI,
SS: WHT- OFFWHT- V/LT TN, MOD
CONSOL, V/FN - FN GRN, FRI TO
FRM, SUBRND TO SUBANG, WL
SORT, CALC CMNT, V/PL YLW MIN
FLOUR,

60% SI, 40% SS,
SI: DRKGRY- GRY, WL CONSOL,
FN - CRS GRN, FRM TO HRD TO
OCC BRIT, SUBRND TO SUB ANG,
WL SORT, CALC IP, ARG CMNT,
SCAT DULL YEL MIN FLOUR,

80% SI, 20% SS,
SI: MOTT- DRKGRY- GRY, WL
CONSOL, FN TO CRS GRN, FRM TO
HRD TO OCC BRIT, SUBRND TO SUB
ANG, WL SORT, CALC IP, ARG CMNT,
SCAT DULL YEL MIN FLOUR,



MD 6443.00'
TVD 6442.41'
INC 0.67°
AZM 83.53°
VS -4.33'
DLS 0.62°

WOB 39
RPM 82
PP 2662
SPM 210
FLOW LINE

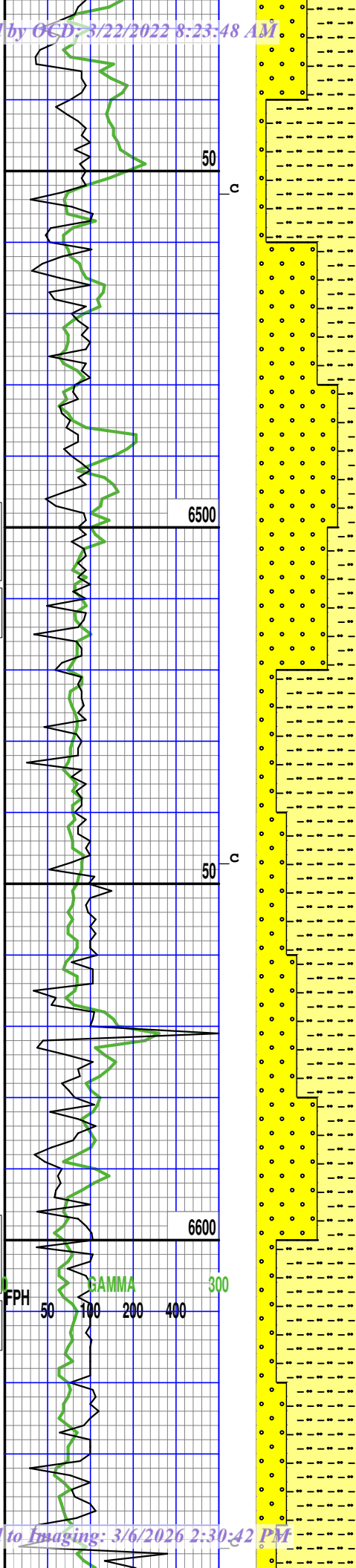
WT IN 8.5
WT OUT 8.5
VIS 61/61

MD 6537.00'
TVD 6536.40'
INC 0.68°
AZM 31.92°
VS -3.79'
DLS 0.63°

WOB 39
RPM 81
PP 2718
SPM 210
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 61/61

MD 6632.00'
TVD 6631.40'
INC 0.73°
AZM 341.40°
VS -2.74'
DLS 0.65°

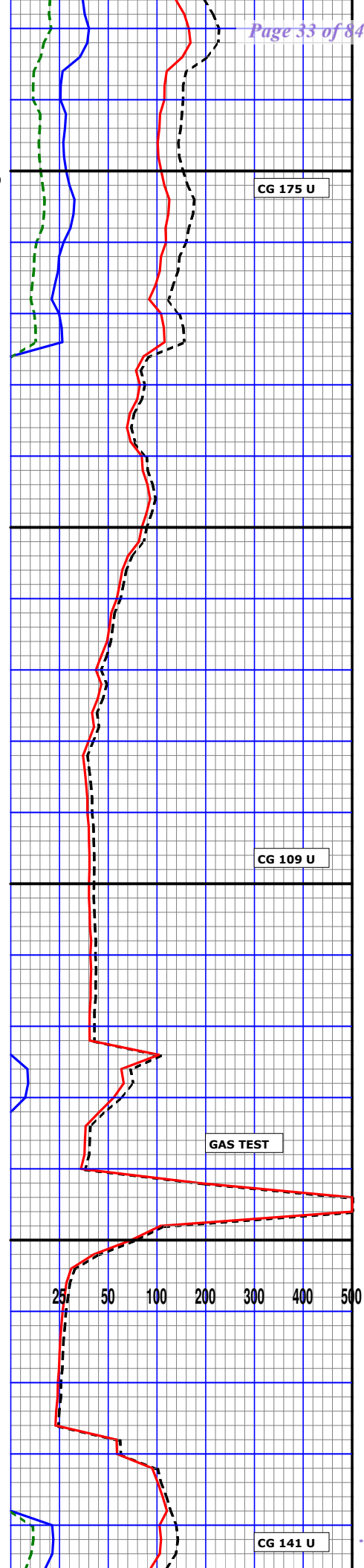


90% SI, 10% SS,
SI: MOTT- DRKGRY- GRY LT/GRY, MOD
TO WL CONSOL, MED TO CRS GRN,
FRI TO FRM, SUBRND TO SUBANG,
WL SORT, CALC IP, ARG CMNT, NO
MIN FLOUR,

80% SS, 20% SI,
SS: WHT- OFFWHT, MOD TO WL
CONSOL, V/FN - OCC FN GRN, FRM
TO FRI, SUBRND TO SUB ANG, WL
SORT, CALC CMNT, NO MIN FLOUR,

90% SI, 10% SS,
SI: MOTT- DRKGRY- GRY- SCAT LT/
GRY, MOD TO WL CONSOL, MED TO
CRS GRN, FRI TO FRM, SUBRND TO
SUBANG, WL SORT, CALC IP, ARG
CMNT, NO MIN FLOUR,

60% SS, 40% SI,
SS: OFFWHT-LTGRY TR TN, MOD -
WL CONSOL, V/FN - OCC FN GRN,
QRTZ GRNS, FRM - FRI, SUBRND -
SUB ANG, WL SORT, CALC CMNT, NO
MIN FLOUR,



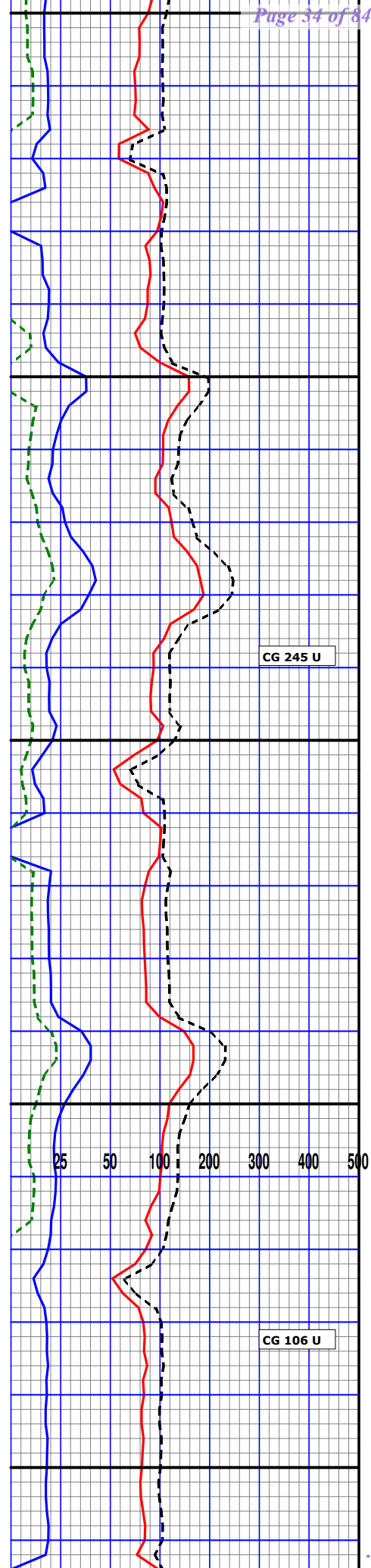
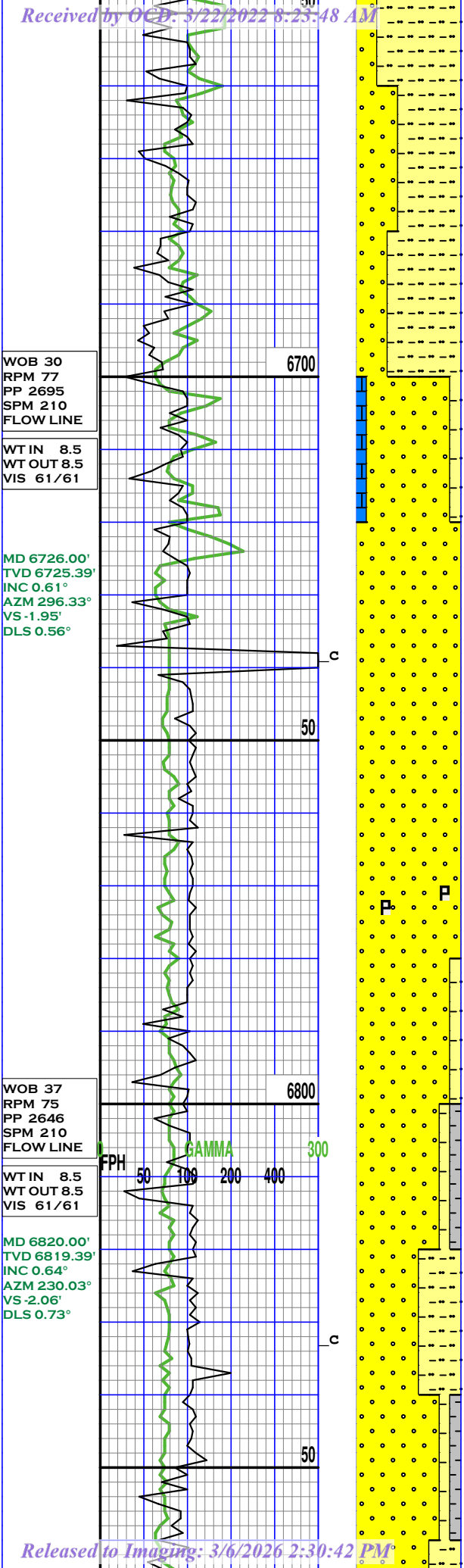
80% SI, 20% SS,
SI: MOTT- DRKGRY SCAT LT GRY,
MOD - WL CONSOL, MED - CRS GRN,
SL HRD - V FRM, SUBRND - SUBANG,
WL SORT, CALC IP, ARG CMNT, NO
MIN FLOUR,

70% SI, 30% SS,
SI: DRKGRY SCAT M GRY, MOD - WL
CONSOL, MED - CRS GRN, M - V FRM,
SUBRND - SUBANG, WL SORT, CALC
IP, ARG CMNT, NO MIN FLOUR,

100% SS
SS: OFFWHT-LTGRY TR TN, MOD -
WL CONSOL, VFN - FN GRN, SME
FRM MSTLY FRI, SUBRND - SUB ANG,
WL SORT, CALC CMNT, NO MIN
FLOUR,

90% SS, 10% SI
SS: OFFWHT-LTGRY-GRY, MOD -
WL CONSOL, VFN - FN GRN, SME
SL FRM -FRI, SUBRND - SUB ANG,
WL SORT, CALC CMNT, NO MIN
FLOUR,

80% SS, 10% SI, 10% SH
SS: OFFWHT-LTGRY-GRY, MOD -
WL CONSOL, TR BLK STN, VFN - FN
GRN, SL FRM -FRI, SUBRND - SUB
ANG, WL SORT, CALC CMNT, NO MIN
FLOUR,



WOB 38
RPM 63
PP 2872
SPM 210
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 61/61

MD 6915.00'
TVD 6914.38'
INC 0.69°
AZM 143.24°
VS -2.86°
DLS 0.96°

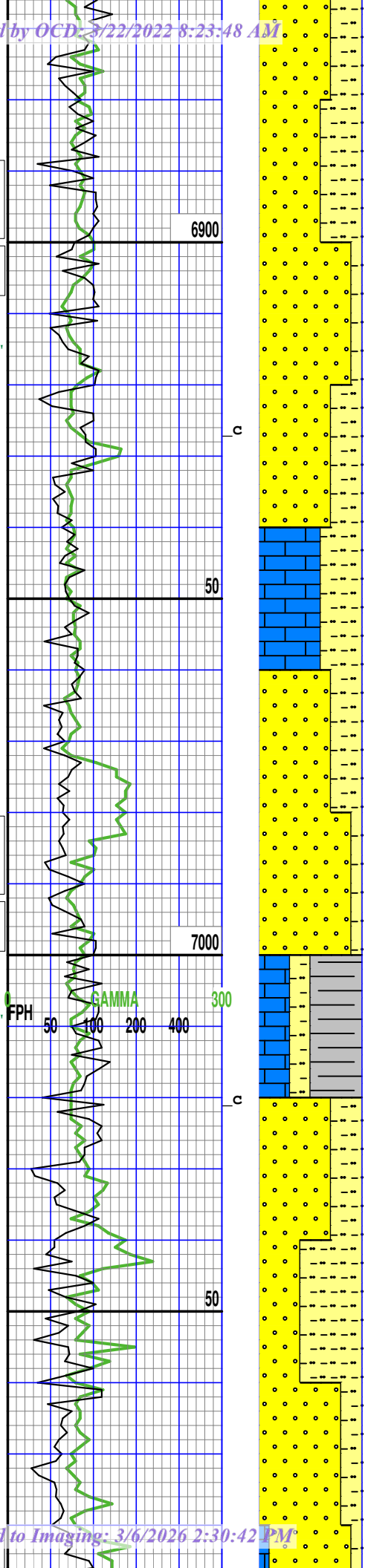
WOB 44
RPM 78
PP 2817
SPM 210
FLOW LINE

WT IN 8.6
WT OUT 8.6
VIS 64/64

MD 7009.00'
TVD 7008.37'
INC 1.00°
AZM 111.37°
VS -3.62°
DLS 0.59°

10/1/20

WOB
RPM 71
PP 2598

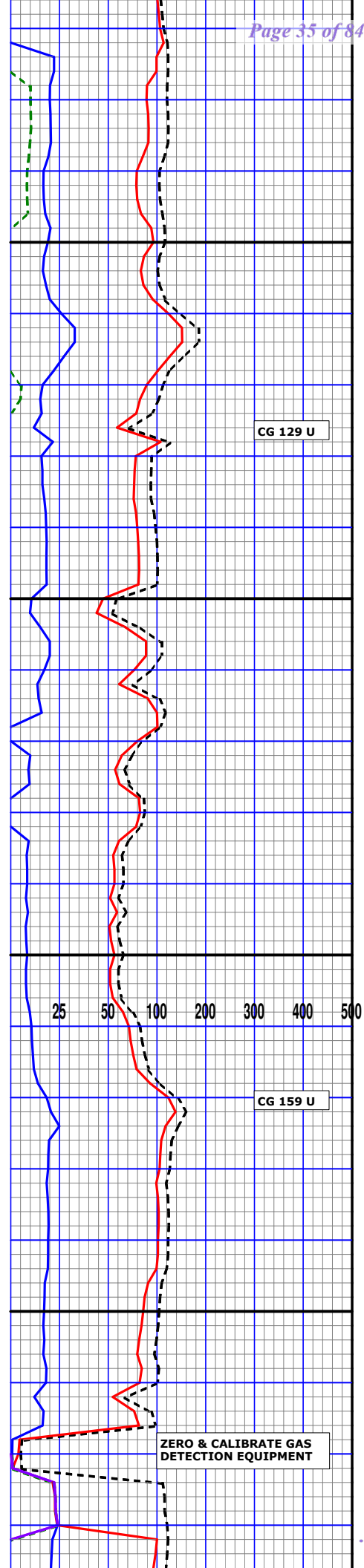


40% SI, 60% SS,
SI: BLK-DRKGRY TR M GRY, MOD -
WL CONSOL, MED - CRS GRN, V FRM
TR SL HRD, SUBRND - SUBANG, WL
SORT, CALC IP, ARG CMNT, NO MIN
FLOUR,

60% LS, 40% SI,
LS: PKSTN, GRYISH BLK-MGRY-
LTGRY, SUBBLKY - BLKY -PLTY, PRED
HRD - V FRM, MED - FN XLN, NO MIN
FLOUR,

90% SS, 10% SI
SS: OFFWHT-LTGRY TR MGRY, MOD -
WL CONSOL, VFN - FN GRN TR M
GRN, SL FRM -FRI, SUBRND - SUB
ANG, WL SORT, CALC CMNT, NO MIN
FLOUR,

40% SS, 40% SI
SS: OFFWHT-LTGRY -MGRY, MOD -
WL CONSOL, VFN GRN TR M GRN, SL
FRM -FRI, SUBRND - SUB ANG, WL
SORT, CALC CMNT, NO MIN FLOUR,



ZERO & CALIBRATE GAS
DETECTION EQUIPMENT

MD 7104.00'
TVD 7103.36'
INC 1.08°
AZM 74.80°
VS -3.68'
DLS 0.69°

7100

80% SS, 10% SI, 10% LS
SS: OFFWHT-LTGRY -MGRY, WL
CONSOL, FN -M GRN, SL FRM -FRI,
SUBRND - SUB ANG, WL SORT, CALC
CMNT, NO MIN FLOUR,

CG 102 U

50

60% SI, 30% SS, 10% SH
SI: BLK-DRKGRY, MOD - WL
CONSOL, MED - CRS GRN, V FRM
-HRD, TR IMBD SH LAM, ANG -
SUBANG, MOD SORT, CALC IP, ARG
CMNT, NO MIN FLOUR,

7200

30% SS, 60% SI, 10% LS
SS: PRED OFFWHT-LTGRY SCAT
MGRY-GRY, WL CONSOL, FN -M GRN,
SL FRM -FRI, SUBRND - SUB ANG, WL
SORT, CALC CMNT, NO MIN FLOUR,

CG 151 U

50

80% SS, 20% SI
SS: OFFWHT-LTGRY TR GRY, WL
CONSOL, FN -M GRN, SL FRM -FRI,
SUBRND - SUB ANG, WL SORT, CALC
CMNT, NO MIN FLOUR

7300

70% SS, 30% SI,
SS: WHT- OFFWHT- LTGRY, MOD
CONSOL, SUBRND TO SUBANG, V/
FN TO OCC FN GRN, W SORT, CALC
CMNT, DULL YEL MIN FLOUR

CG 314 U

WOB 36
RPM 69
PP 2572
SPM 210
FLOW LINE

WT IN 8.6
WT OUT 8.6
VIS 64/64

MD 7293.00'
TVD 7292.33'
INC 0.93°
AZM 356.36°
VS -1.11'
DLS 0.53°

WOB 45

MD 7387.00'
TVD 7386.32'
INC 0.50°
AZM 299.39°
VS -0.15'
DLS 0.83°

WOB 25
RPM 56
PP 2729
SPM 225
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 64/64

MD 7481.00'
TVD 7480.32'
INC 0.34°
AZM 209.33°
VS -0.19'
DLS 0.64°

WOB 48
RPM 46
PP 2951
SPM 225
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 64/64

70% SI, 20% SS, 10% LS
SI: DRKGRY- GRY- BRNSH GRY, MOD
- WL CONSOL, MED - CRS GRN, V
FRM -HRD, TR IMBD SH LAM, ANG -
SUBANG, MOD SORT, CALC IP, ARG
CMNT, NO MIN FLOUR

50% SI, 40% SS, 10% LS,
SS: WHT- OFFWHT- LTGRY, MOD
CONSOL, SUBRND TO SUBANG,
V/FN TO OCC FN GRN, W SORT,
CALC CMNT, NO MIN FLOUR

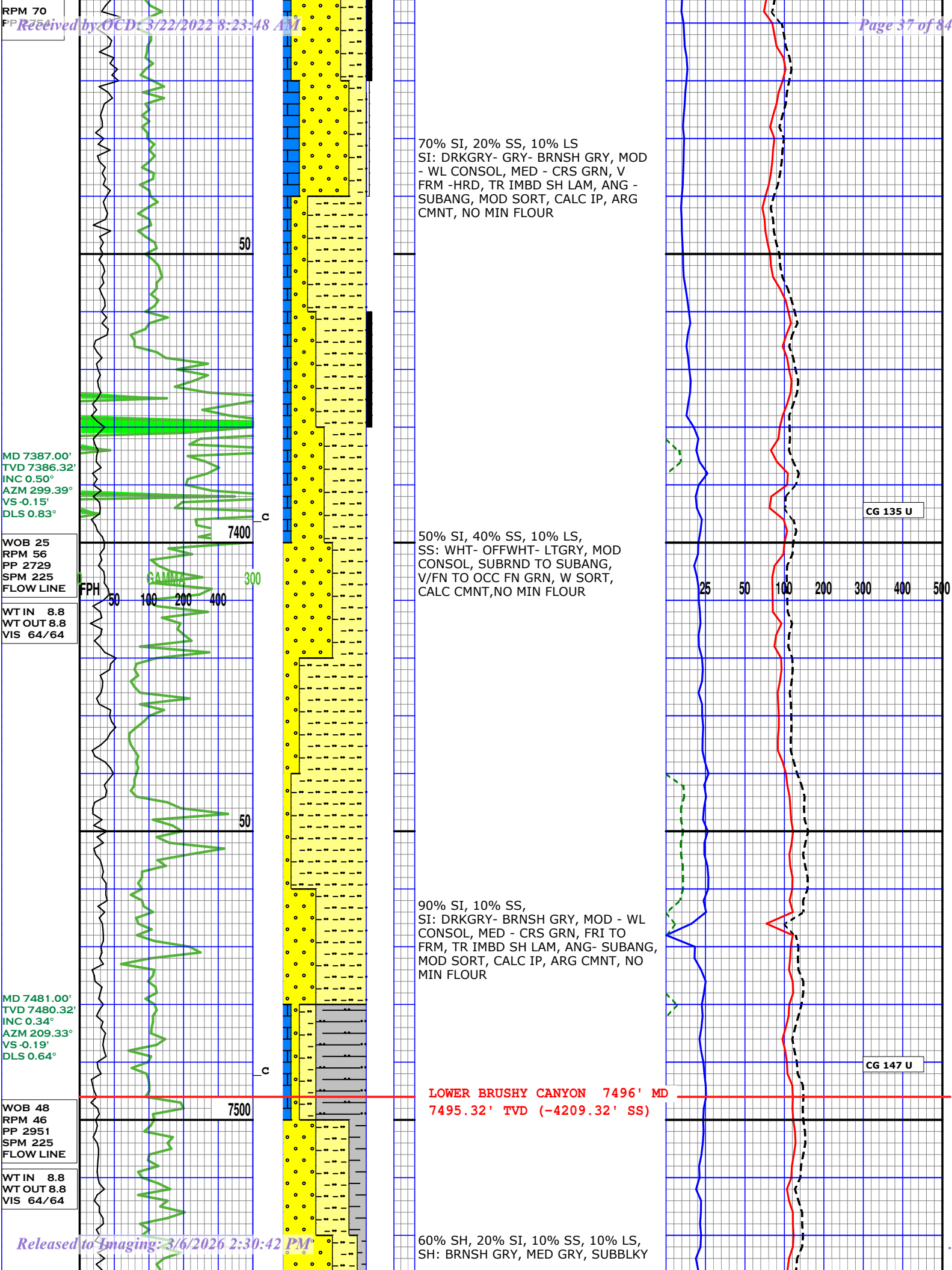
90% SI, 10% SS,
SI: DRKGRY- BRNSH GRY, MOD - WL
CONSOL, MED - CRS GRN, FRI TO
FRM, TR IMBD SH LAM, ANG- SUBANG,
MOD SORT, CALC IP, ARG CMNT, NO
MIN FLOUR

LOWER BRUSHY CANYON 7496' MD
7495.32' TVD (-4209.32' SS)

60% SH, 20% SI, 10% SS, 10% LS,
SH: BRNSH GRY, MED GRY, SUBBLKY

CG 135 U

CG 147 U



MD 7576.00'
TVD 7575.32'
INC 0.59°
AZM 129.38°
VS-0.75'
DLS 0.66°

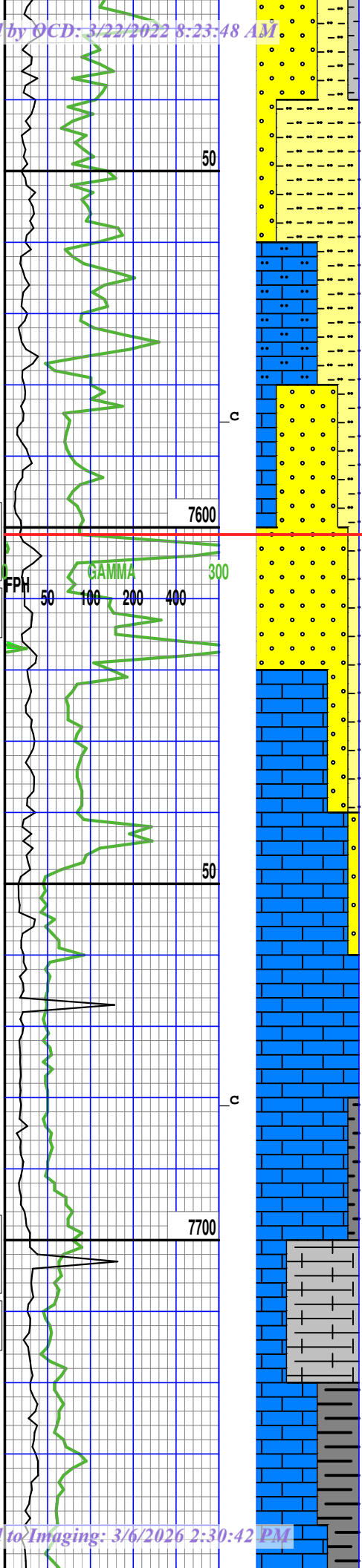
WOB 51
RPM 49
PP 2776
SPM 219
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 64/64

MD 7670.00'
TVD 7669.31'
INC 1.13°
AZM 107.93°
VS-1.34'
DLS 0.66°

WOB 52
RPM 40
PP 2611
SPM 217
FLOW LINE

WT IN 8.8
WT OUT 8.8
VIS 64/64



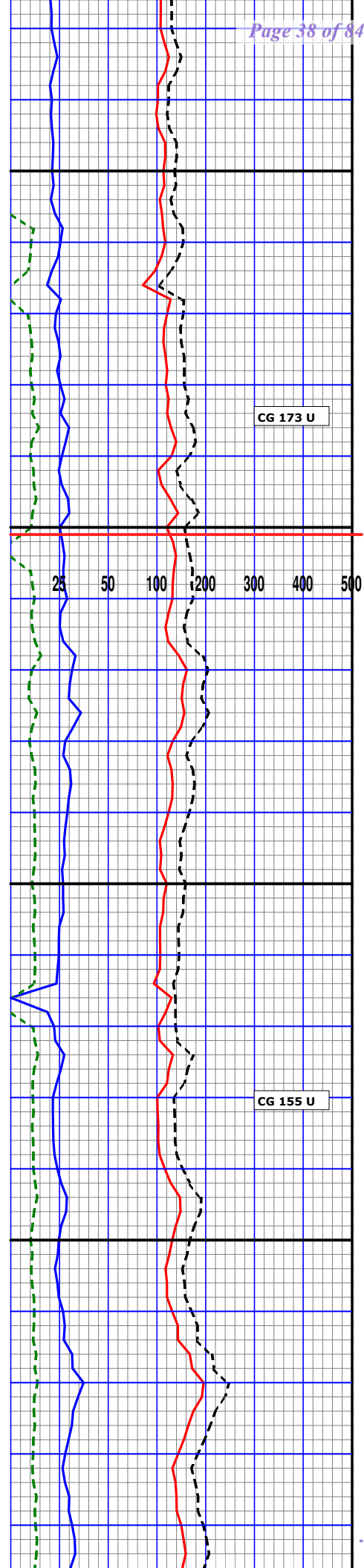
90% SI, 10% SS,
SI: DRKGRY- BRNSH GRY, MOD CON
SOL, MED - CRS GRN, FRI TO FRM,
TR IMBD SH LAM, ANG- SUBANG,
MOD SORT, CALC IP, ARG CMNT, NO
MIN FLOUR

**BONE SPRING LM 7601' MD
7600.32' TVD (-4314.32' SS)**

20% LS, 20% SI, 60% SS
LS: WKSTN - PKSTN, LT GRY- GRY-
OFFWHT- V/LTGRY, PLTY-SUBBLKY
OCC SUBRND, HRD -FRM OCC BRIT,
FN XLN, NO MIN FLOUR

90% LS, 10% SS
LS: WKSTN - PKSTN, LT GRY- GRY-
OFFWHT- TN-LT BRN, PLTY-SUBBLKY
OCC SUBRND, HRD -FRM OCC BRIT,
FN XLN, NO MIN FLOUR

90% LS, 10% SS
LS: WKSTN - PKSTN, MOTT, LT GRY-
GRY- OFFWHT- TN, PLTY-SUBBLKY
OCC SUBRND, HRD -FRM OCC BRIT,
FN XLN, NO MIN FLOUR



MD 7765.00'
TVD 7764.28'
INC 1.65°
AZM 88.07°
VS -1.58'
DLS 0.74°

30% SH, 70% LS,
SH: GRYISH BLK-V DRK GRY,
SUBBLKY - BLKY - MECH, FRM - BRIT
IP, NO MIN FLOUR

AVALON 7770' MD
7769.28' TVD (-4483.28' SS)

CG 433 U

10/2/20

WOB 45
RPM 54
PP 2761
SPM 217
FLOW LINE

80% LS, 20% SH,
LS: WKSTN SCAT PKSTN, LTGRYGRY-
OFFWHT- V/LTGRY, PLTY SME
SUBBLKY - SUBRND, HRD - FRM
OCC BRIT, VFN-FN XLN, NO MIN
FLOUR

ZERO & CALIBRATE GAS
DETECTION EQUIPMENT

WT IN 8.6
WT OUT 8.6
VIS 50/50

MD 7859.00'
TVD 7858.25'
INC 1.55°
AZM 77.55°
VS -1.26°
DLS 0.33°

70% SH, 30% LS,
SH: PRED GRYISH BLK-V DRK GRY
SCAT BLK, SUBBLKY - BLKY - MECH,
FRM - BRIT- SFT, V/ SLTY, MED - SLTY
TXT, V CALC, NO MIN FLOUR

CG 367 U

WOB 43
RPM 73
PP 2734
SPM 217
FLOW LINE

90% SH, 10% LS,
SH: GRYISH BLK-V DRK GRY TR BLK,
SUBBLKY - BLKY OCC MECH, FRM -
BRIT- SFT, V/ SLTY, M - SLTY TXT, V
CALC, TR CALCT FRAC FILL, NO MIN
FLOUR

WT IN 8.6
WT OUT 8.6
VIS 50/50

MD 7954.00'
TVD 7952.22'
INC 1.05°
AZM 75.20°
VS -1.71°
DLS 0.33°

60% LS, 40% SH,
LS: WKSTN - PKSTN, MOTT, LTGRY-
GRY OFFWHT- V/LTGRY, PLTY SME
SUBBLKY - SUBRND, SL FRM - BRIT,
VFN-FN XLN, NO MIN FLOUR

CG 334 U

WOB 38
RPM 73
PP 2913
SPM 217
FLOW LINE

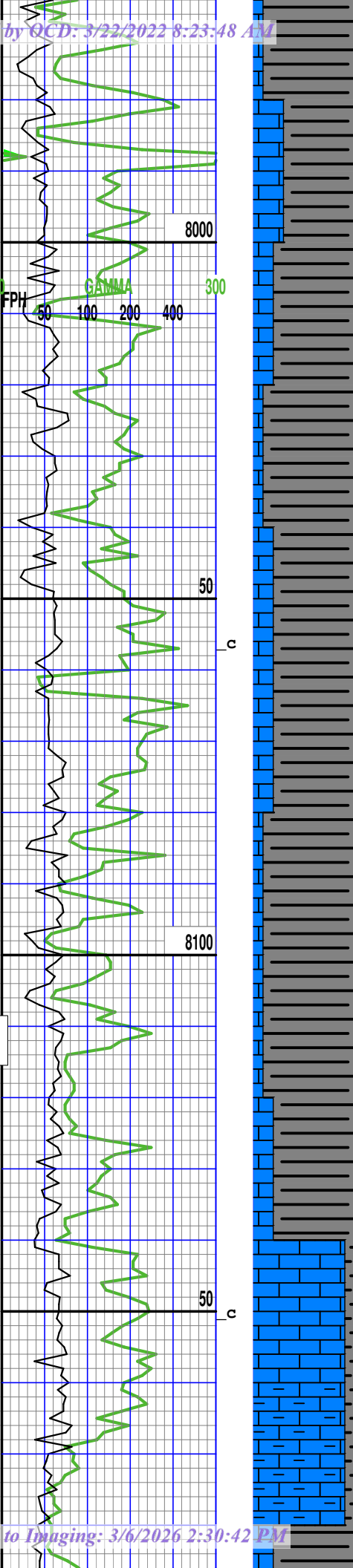
WT IN 8.6
WT OUT 8.6
VIS 47/47

MD 8048.00'
TVD 8047.21'
INC 0.63°
AZM 104.64°
VS -0.68°
DLS 0.62°

WOB 48
RPM 72
PP 2783
SPM 219
FLOW LINE

WT IN 8.65
WT OUT 8.65
VIS 49/49

MD 8142.00'
TVD 8141.20'
INC 0.74°
AZM 106.64°
VS -0.98°
DLS 0.12°

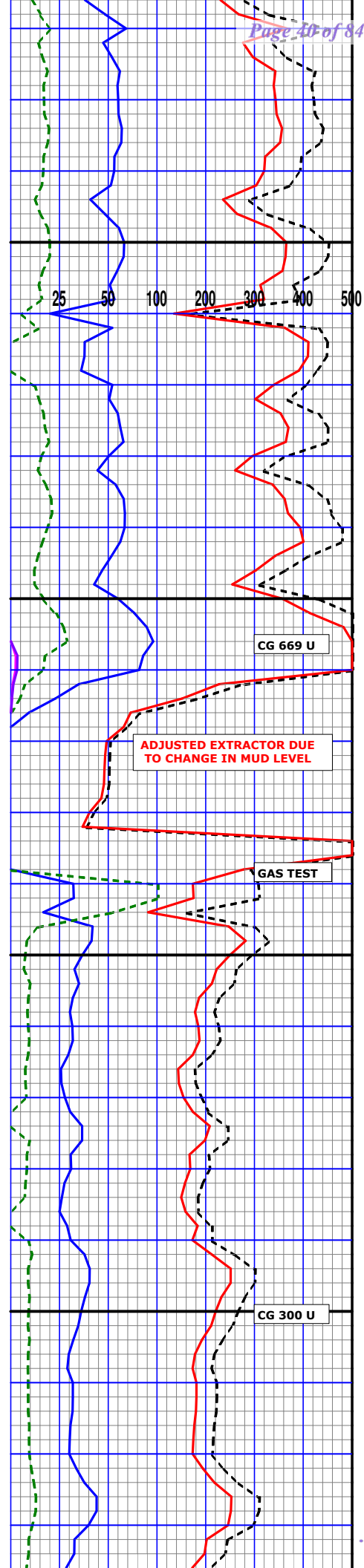


70% SH, 30% LS,
SH: BLK-V/DRKGRY, SUBBLKY TO
BLKY OCC MECH, FRM TO BRIT TO
OCC SFT, V/ SLTY, M - SLTY TXT,
CALC IP, TR CALCT FRAC FILL, NO
MIN FLOUR

80% SH, 20% LS,
SH: BRNSH BLK- V/DRKGRY, SUB
BLKY TO BLKY OCC MECH, FRM TO
BRIT TO OCC SFT, V/ SLTY, M - SLTY
TXT, CALC IP, TR CALCT FRAC FILL,
NO MIN FLOUR

90% SH, 10% LS,
SH: BRNSH BLK- V/DRKGRY- OCC
MEDGRY, SUBBLKY TO BLKY OCC
MECH, FRM TO BRIT TO OCC SFT, V/
SLTY, M - SLTY TXT, CALC IP, TR
CALCT FRAC FILL, NO MIN FLOUR

90% LS, 10% SH,
LS: WKSTN - OCC PKSTN, MOTT-
LTGRY- OFFWHT- V/LTGRY, PLTY
SME SUBBLKY - SUBRND, SL FRM -
BRIT, VFN-FN XLN, NO MIN FLOUR



WOB 44
RPM 70
PP 2757
SPM 219
FLOW LINE

WT IN 8.6
WT OUT 8.6
VIS 49/49

MD 8237.00'
TVD 8236.20'
INC 0.85°
AZM 38.05°
VS -0.60°
DLS 0.95°

WOB 48
RPM 69
PP 2665
SPM 219
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 47/47

MD 8331.00'
TVD 8330.18'
INC 1.35°
AZM 356.88°
VS 1.05°
DLS 0.96°

WOB 48
RPM 69
PP 2665
SPM 219
FLOW LINE

8200

8300

8400

FPH 50 100 200 400

GAMMA 300

50

50

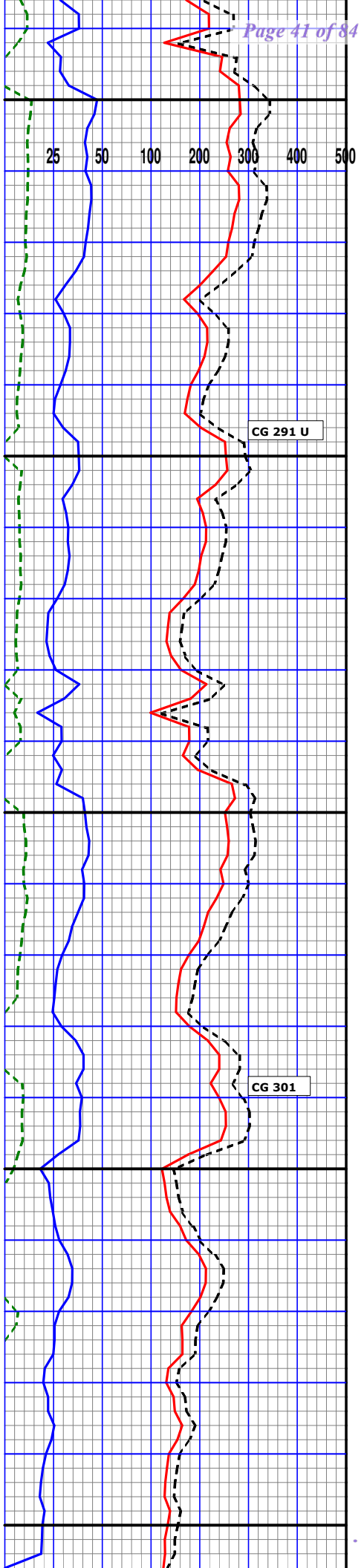
80% SH, 20% LS,
SH: BRNSH BLK- V/DRKGRY- DRKGRY,
SUBBLKY TO BLKY TO MECH, FRM TO
BRIT TO OCC SFT, V/SLTY, M - SLTY
TXT, CALC IP, NO MIN FLOUR.

80% SH, 20% LS,
SH: V/DRKGRY- DRKGRY, SUBBLKY
TO BLKY TO MECH, FRM TO HRD TO
BRIT, SLTY TO MED TXT, NO MIN
FLOUR.

100% SH,
SH: DRKGRY- MEDGRY, SUBBLKY
TO BLKY TO MECH, FRM TO HRD TO
BRIT, SLTY TO MED TXT, V/ CALC,
NO MIN FLOUR.

90% LS, 10% SH,
LS: PKSTN - GRNSTN, MOTT- LTGRY-
OFFWHT- V/LTGRY, PLTY SME SUB
BLKY- SUBRND, FRI TO MOD FRM TO
BRIT, NO MIN FLOUR

90% LS, 10% SH,
LS: PKSTN - GRNSTN, LTGRY-
OFFWHT- MOTT, PLTY SME SUB



MD 8425.00'
TVD 8424.16'
INC 1.30°
AZM 333.47°
VS 3.11'
DLS 0.57°

WOB 49
RPM 81
PP 2494
SPM 204
FLOW LINE

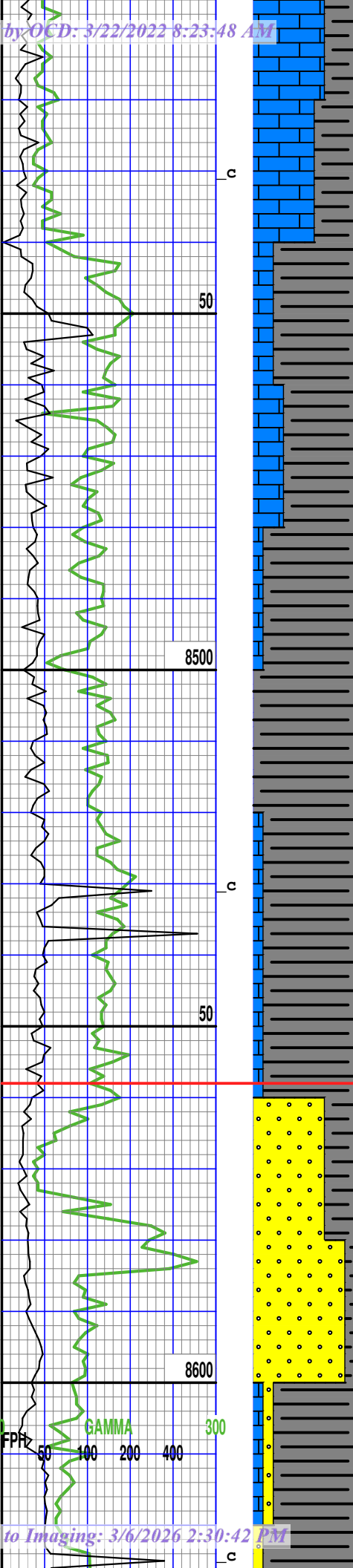
WT IN 8.6
WT OUT 8.6
VIS 43/43

MD 8519.00'
TVD 8518.14'
INC 0.88°
AZM 297.53°
VS 4.40'
DLS 0.83°

WOB 51
RPM 74
PP 2374
SPM 204
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 44/44

MD 8614.00'
TVD 8613.13'
INC 0.92°
AZM 263.72°
VS 6.65'
DLS 0.55°



80% SH, 20% LS,
SH: BRNSH BLK- V/DRKGRY- DRK
GRY, SUBBLKY TO BLKY TO MECH,
FRM TO BRIT TO OCC SFT, V/SLTY,
M - SLTY TXT, CALC IP, NO MIN
FLOUR.

90% SH, 10% LS,
SH: BLK- V/DRKGRY- DRK GRY,
SUBBLKY - BLKY - MECH, FRM - BRIT
- OCC SFT, V/SLTY, M - SLTY TXT,
CALC IP, NO MIN FLOUR.

90% SH, 10% LS,
SH: BLK- V/DRKGRY- DRK GRY,
SUBBLKY - BLKY OCC MECH, FRM -
BRIT - SFT, V/SLTY, M - SLTY TXT,
CALC IP, NO MIN FLOUR.

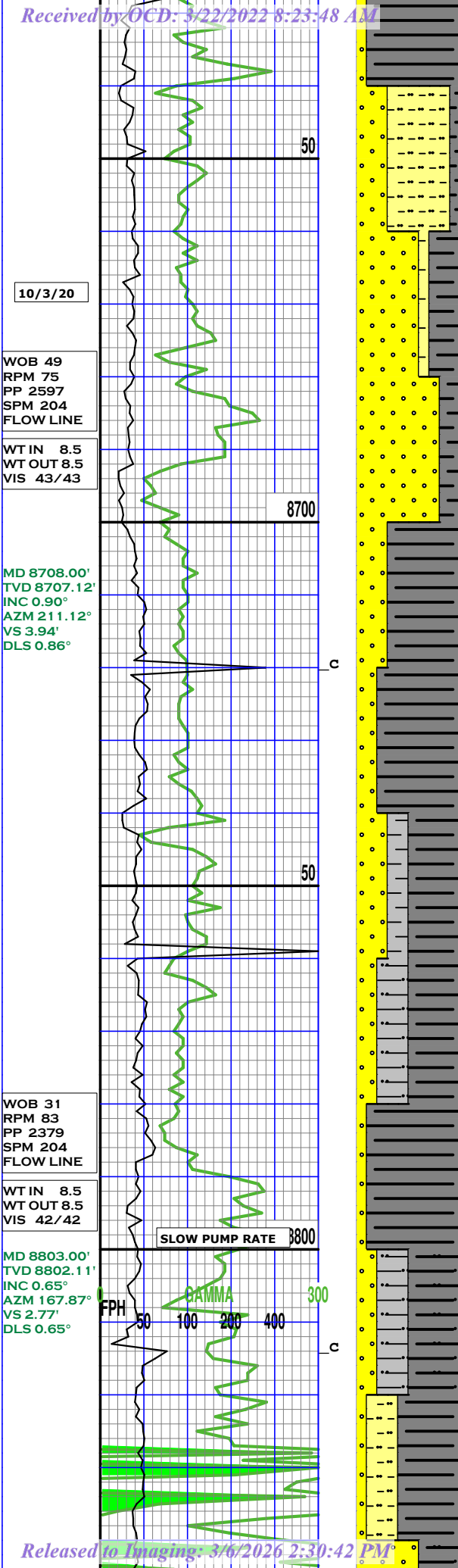
1ST BONE SPRING SAND (-5271.14' SS TVD)

90% SS, 10% SH
SS: V/LTGRY- LTGRY- OFFWHT OCC
DRK GRY, MOTT, FRI - FRM, WL -
MOD CONSOL, MED - FN GRN,
SUBRND - SUBANG, CALC CMNT, WL
- MOD SRT, NO MIN FLUOR

CG 186

CG 187 U

CG 119 U

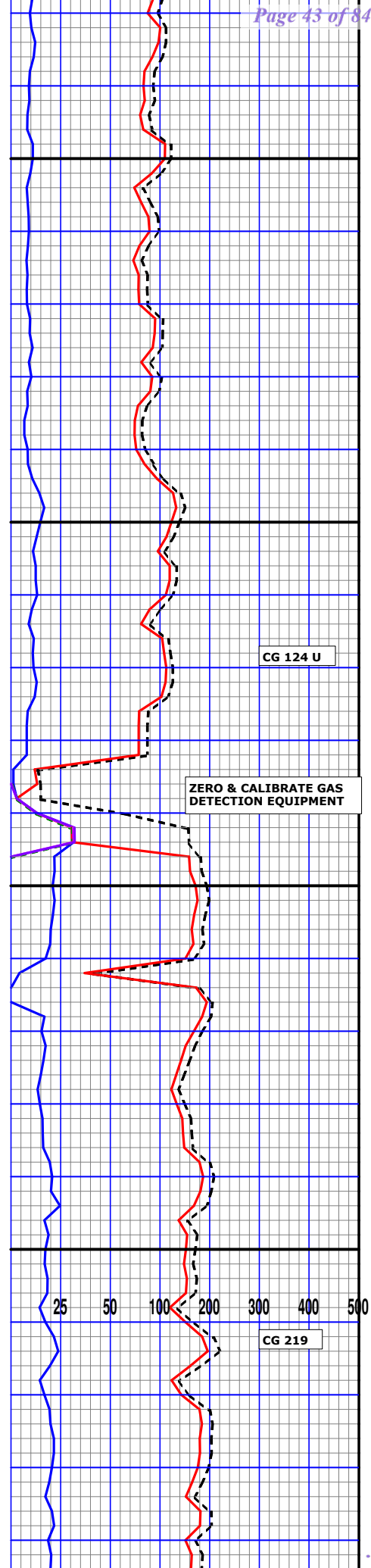


10% SH, 30% SS, 60% SI
SH: BLK- V/DRKGRY, SUBBLKY - BLKY
- MECH, FRM - BRIT - SFT, V/SLTY, M
- SLTY TXT, CALC IP, NO MIN FLOUR.

80% SS, 20% SH
SS: V/LTGRY- LTGRY- OFFWHT,
MOTT, FRI - FRM, WL - MOD
CONSOL, MED - FN GRN, SUBRND -
SUBANG, CALC CMNT, WL - MOD
SRT, NO MIN FLUOR

70% SH, 30% SS
SH: PRED BLK- V/DRKGRY OCC
GRY-MGRY, SUBBLKY - BLKY - MECH,
FRM - BRIT - M SFT, VFN - SLTY TXT,
CALC IP, NO MIN FLOUR.

90% SH, 10% SS
SH: PRED BLK- V/DRKGRY, SUBBLKY
- BLKY - MECH, FRM - BRIT, VFN -
SLTY TXT, CALC IP, NO MIN FLOUR.



80% SS, 20% SH
SS: DRK-MGRY- LTGRY- OFFWHT,
MOTT, FRI - FRM SME SL HRD, WL -
MOD CONSOL, MED - FN GRN,
SUBRND - SUBANG, CALC CMNT, WL
SRT, NO MIN FLUOR

80% SI, 20% SS,
SI: MEDGRY-GRY- OCC LTGRY, FRM -
HRD, MOD TO WL CONSOL, MED -
CRS GRN, SUBRND- SUBANG, CALC
IP, ARG CMNT, WL - MOD SRT, NO
MIN FLUOR

90% LS, 10% SH,
LS: WKSTN, MOTT- LTGRY- OFF
WHT- V/LTGRY, PLTY SME SUB BLKY-
SUBRND, FRI TO BRIT, ARG IP, NO
MIN FLOUR

70% SH, 30% LS
SH: PRED BRNISHGRY- DRKGRY
OCC GRY- MGRY, SUBBLKY - BLKY -
MECH, FRI - BRIT - M SFT, VFN -
SLTY TXT, CALC IP, NO MIN FLOUR.

90% LS, 10% SH,
LS: WKSTN TO PKSTN, MOTT- LT
GRY- OFFWHT- V/LTGRY, PLTY SME
SUB BLKY- SUBRND, FRI TO BRIT,
ARG IP, NO MIN FLOUR

MD 8897.00'
TVD 8896.10'
INC 0.71°
AZM 139.27°
VS 1.81'
DLS 0.36°

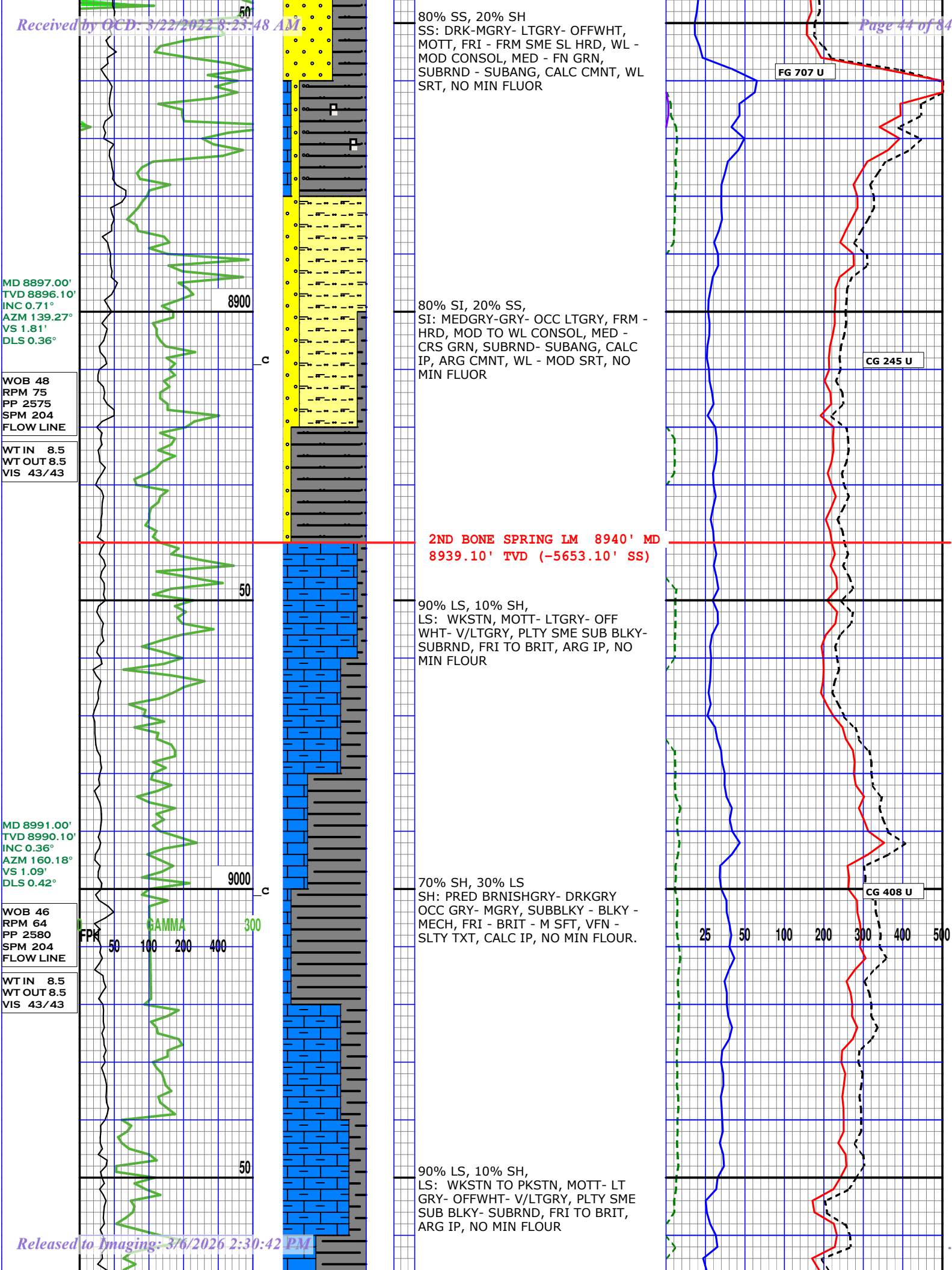
WOB 48
RPM 75
PP 2575
SPM 204
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 43/43

MD 8991.00'
TVD 8990.10'
INC 0.36°
AZM 160.18°
VS 1.09'
DLS 0.42°

WOB 46
RPM 64
PP 2580
SPM 204
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 43/43



MD 9086.00'
TVD 9085.10'
INC 0.42°
AZM 211.30°
VS 0.51'
DLS 0.36°

WOB 47
RPM 64
PP 2709
SPM 225
FLOW LINE

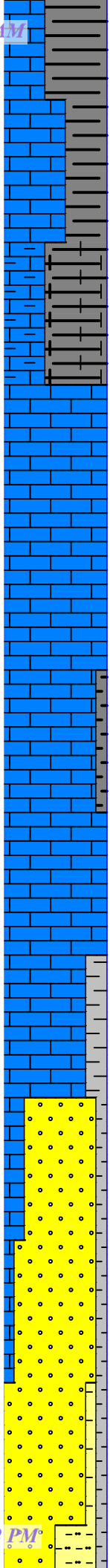
WT IN 8.5
WT OUT 8.5
VIS 43/43

MD 9180.00'
TVD 9179.09'
INC 0.70°
AZM 169.10°
VS -0.34'
DLS 0.51°

WOB 51
RPM 59
PP 2521
SPM 225
FLOW LINE

WT IN 8.45
WT OUT 8.45
VIS 43/43

MD 9275.00'
TVD 9274.08'
INC 1.41°
AZM 116.98°
VS 1.18°
DLS 1.18°

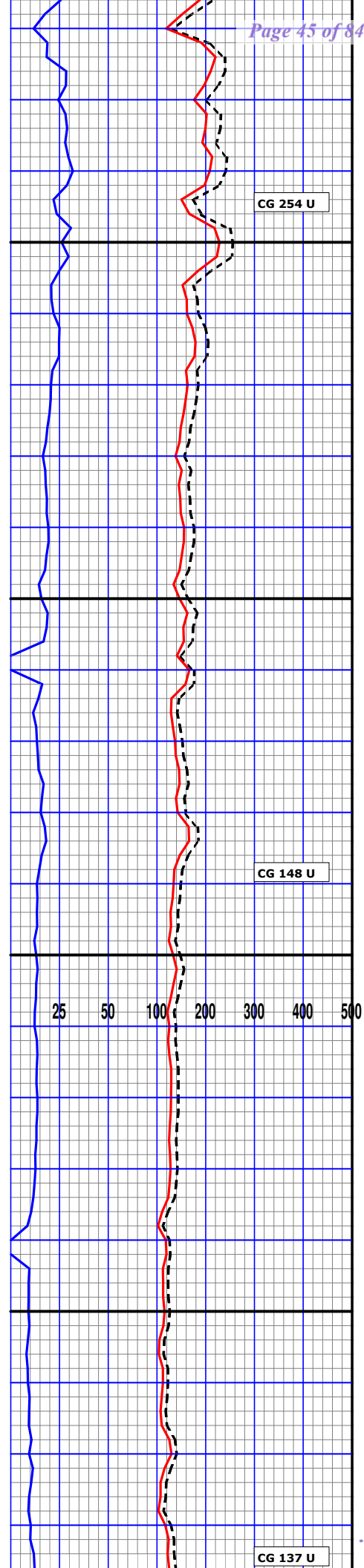


60% LS, 40% SH,
LS: PKSTN TO WKSTN, MOTT- LT
GRY- OFFWHT- CRM, PLTY SME SUB
BLKY- SUBRND, FRI TO BRIT, ARG IP,
NO MIN FLOUR

100% LS,
LS: WKSTN TO PKSTN, PREDOM
MOTT- LTGRY- OFFWHT- V/LTGRY,
PLTY SUB BLKY- SUBRND, FRI TO
BRIT, ARG IP, NO MIN FLOUR

100% LS,
LS: PKSTN TO WKSTN, MOTT- LT
GRY- OFFWHT- V/LTGRY, PLTY SUB
BLKY- SUBRND, FRI TO BRIT, ARG
IP, SCAT CALC FRAC FILL, NO MIN
FLOUR

80% SS, 10% SH, 10% LS
SS: V/LTGRY- LTGRY, FRI - FRM TR
HRD, MOD CONSOL, VFN - FN GRN,
SUB RND - SUBANG, CALC CMNT, WL
- MOD SRT, NO MIN FLUOR



CG 254 U

CG 148 U

CG 137 U

WOB 51
RPM 59
PP 2405
SPM 201
FLOW LINE
WT IN 8.4
WT OUT 8.4
VIS 40/40

9300

30% SS, 70% SI
SI: DRKGRY- M GRY SCAT GRY, LSLY
CON SOL, VFN - FN GRN, SUBANG -
SUBRND, FRM TR SL HRD, CALC
CMNT, NO MIN FLOUR,

MD 9369.00'
TVD 9368.05'
INC 1.70°
AZM 68.33°
VS -1.45°
DLS 1.39°

50

80% LS, 20% SI,
LS: WKSTN, MOTT, DRK GRY-DRK
GRY, SUBBLKY - PLTY SME BLKY, FRM
- BRIT, FN XLN, V/ARG, NO MIN
FLOUR

CG 118 U

WOB 47
RPM 77
PP 2442
SPM 203
FLOW LINE
WT IN 8.4
WT OUT 8.4
VIS 37/37

9400

2ND BONE SPRING SS 9395' MD
9394.04' TVD (-6108.04' SS)

50% SH, 30% LS, 20% SI
SH: BRNISHGRY- DRKGRY OCC GRY-
MGRY, SUBBLKY - BLKY, FRI - BRIT -
M SFT, VFN - SLTY TXT, CALC IP, NO
MIN FLOUR.

25 50 100 200 300 400 500

10/4/20

50

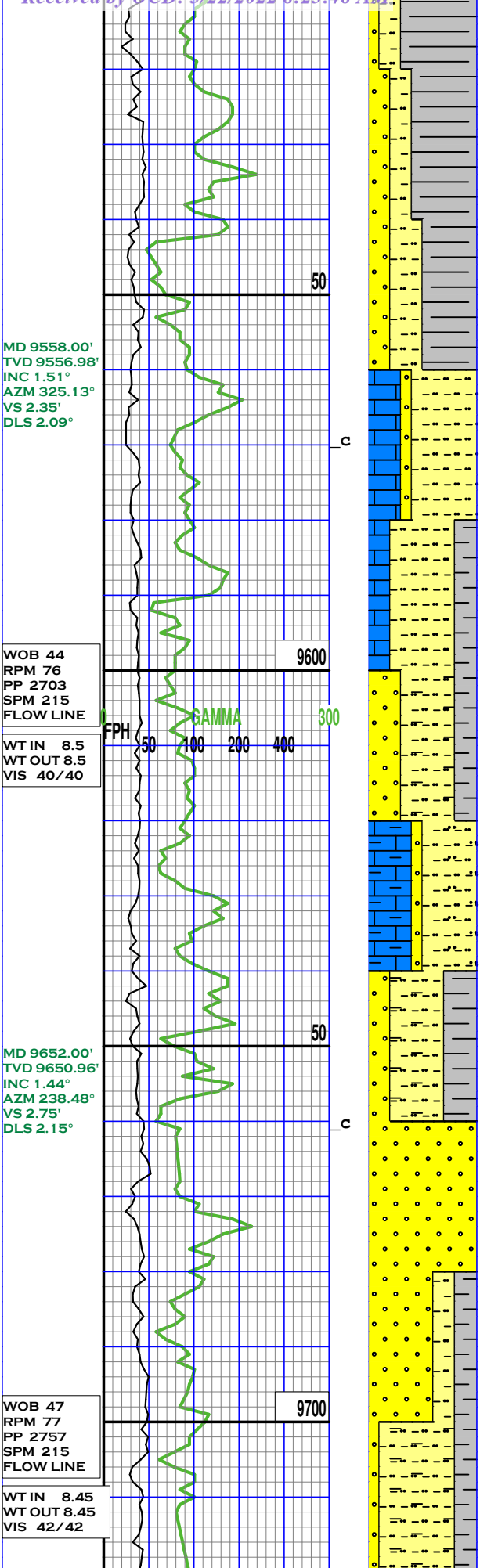
30% SS, 10% SH, 60% SI
SS: V/LTGRY- LTGRY-OFWHT, FRI -
FRM, MOD CONSOL, VFN - FN GRN,
SUB RND - SUBANG, CALC CMNT, WL
- MOD SRT, NO MIN FLUOR

ZERO & CALIBRATE GAS
DETECTION EQUIPMENT

WOB 49
RPM 71
PP 2442
SPM 203
FLOW LINE

9500

70% SH, 10% SS, 20% SI
SH: PRED BLK-BRNISHGRY- DRKGRY
OCC GRY- MGRY, SUBBLKY - BLKY,

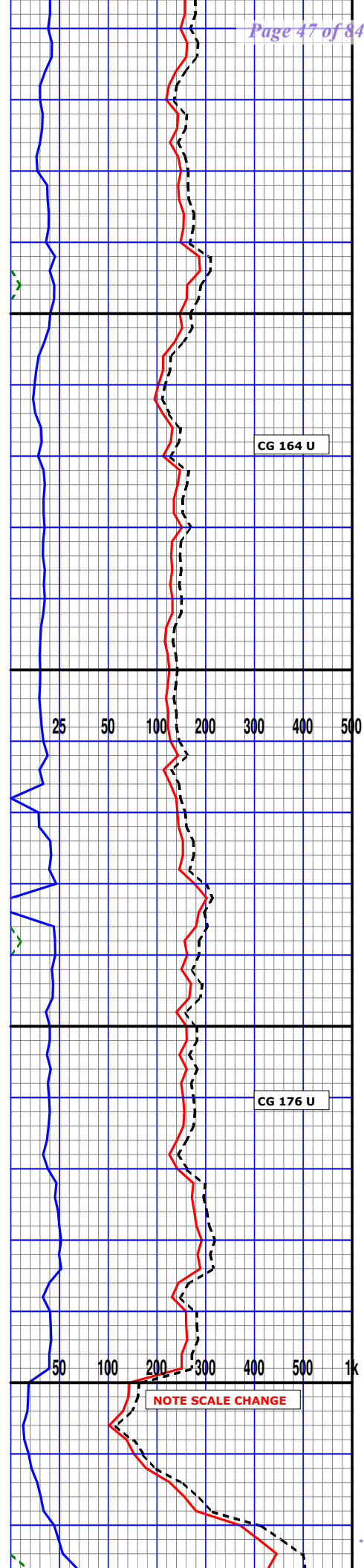


50% SH, 20% SS, 30% SI
SH: PRED LT-M BRN- DRKGRY
OCC GRY TR BLK, SUBBLKY - BLKY,
BRIT - M SFT, VFN - SLTY TXT, CALC
IP, NO MIN FLOUR.

20% SH, 60% SI, 20% LS
SI: DRKGRY- M GRY SCAT GRY, WL
CON SOL, VFN - FN GRN, ANG -
SUBANG, V FRM - SL HRD, CALC
CMNT, NO MIN FLOUR,

50% SI, 30% SH, 20% SS
SI: MEDGRY- GRY- OCC DRKGRY,
MOD TO WL CONSOL, VFN- FN GRN,
ANG - SUBANG, V FRM - FRI, CALC
IP, NO MIN FLOUR,

60% SS, 20% SH, 20% SI
SS: V/LTGRY- LTGRY-OFWHT, FRI -
FRM, MOD CONSOL, VFN GRN, SUB
RND - SUBANG, CALC CMNT, WL
SRT, NO MIN FLUOR



MD 9751.00'
TVD 9749.93'
INC 1.60°
AZM 147.16°
VS 0.00°
DLS 2.20°

WOB 45
RPM 80
PP 2901
SPM 221
FLOW LINE

WT IN 8.4
WT OUT 8.4
VIS 42/42

MD 9845.00'
TVD 9843.90'
INC 1.00°
AZM 76.56°
VS 0.15°
DLS 1.99°

O.B #3
SIZE: 12.25"
MAKE: SMITH
TYPE: PDC
JETS: 7X15'S
S/N: JP0537
IN@ 3,774'
OUT@ 9,946'
DRLD: 6,172'
HRS: 156.2

WOB 46
RPM 69
PP 2932
SPM 221
FLOW LINE

WT IN 8.35
WT OUT 8.35
VIS 43/43

BIT #4
SIZE: 12.25"
MAKE: ULTERRA
TYPE: PDC
JETS: 7X15'S
S/N: 52115
IN@ 9,946'

10/5/20

MD 9941.00'
TVD 9939.87'
INC 1.65°
AZM 12.98°

50

c

9800

GAMMA

50

c

9900

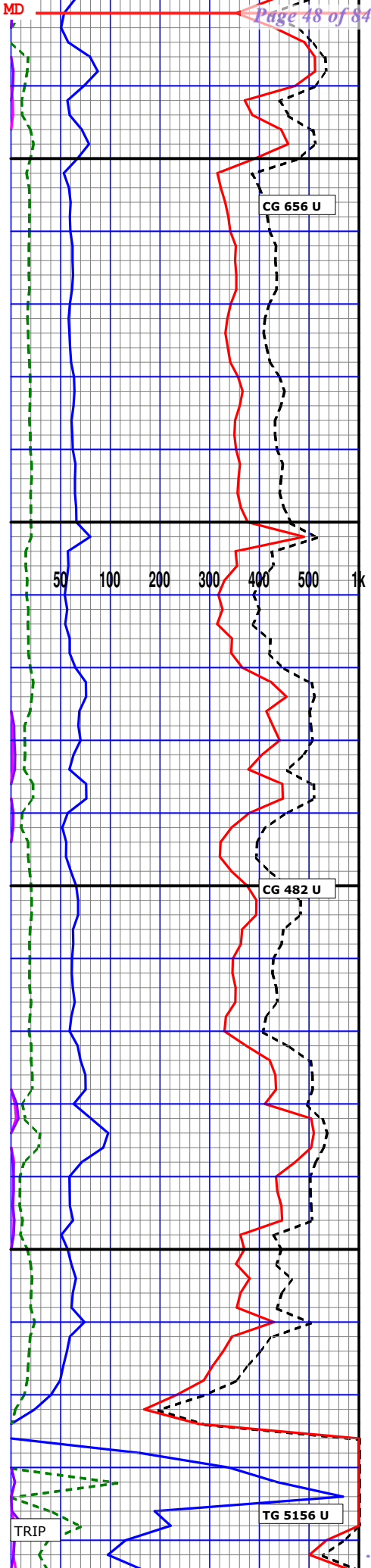
c

70% SH, 30% SI,
SH: PRED V/DRKGRY- DRKGRY-
MGRY, SUBBLKY - BLKY - MECH, FRM
- BRIT - M SFT, VFN - SLTY TXT,
CALC IP, NO MIN FLOUR.

100% LS,
LS: WKSTN, MOTT- LTGRY- MEDGRY
- LTGRY, PLTY SUB BLKY- SUBRND,
FRI TO BRIT, V/ ARG, SCAT CALC
FRAC FILL, NO MIN FLOUR

100% SH,
SH: V/DRKGRY- DRKGRY- MGRY,
SUBBLKY - BLKY - MECH, FRM- BRIT-
M SFT, VFN - SLTY TXT, V/ CALC, NO
MIN FLOUR.

100% LS,
LS: WKSTN, MOTT- LTGRY- MEDGRY
- DRKGRY, PLTY SUB BLKY- SUBRND,
FRI TO SCAT BRIT, V/ ARG, NO MIN
FLOUR



CG 656 U

CG 482 U

TG 5156 U

TRIP

WOB 30
RPM 74
PP 2563
SPM 202
FLOW LINE

WT IN 8.45
WT OUT 8.45
VIS 44/44

MD 10036.00'
TVD 10034.85'
INC 0.89°
AZM 342.46°
VS 3.77'
DLS 1.05°

WOB 28
RPM 77
PP 2801
SPM 210
FLOW LINE

WT IN 8.5
WT OUT 8.5
VIS 40/40

MD 10130.00'
TVD 10128.84'
INC 0.55°
AZM 312.12°
VS 4.77'
DLS 0.53°

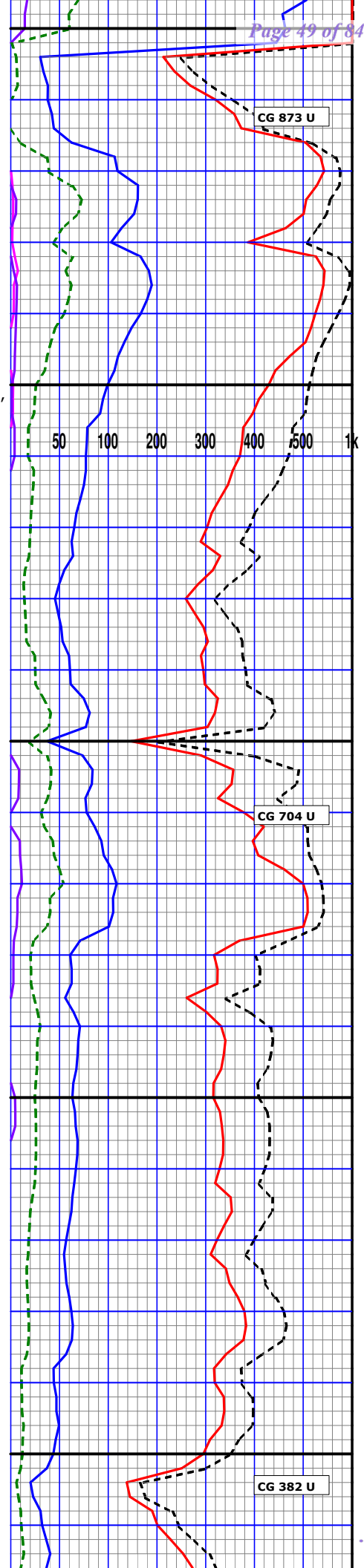
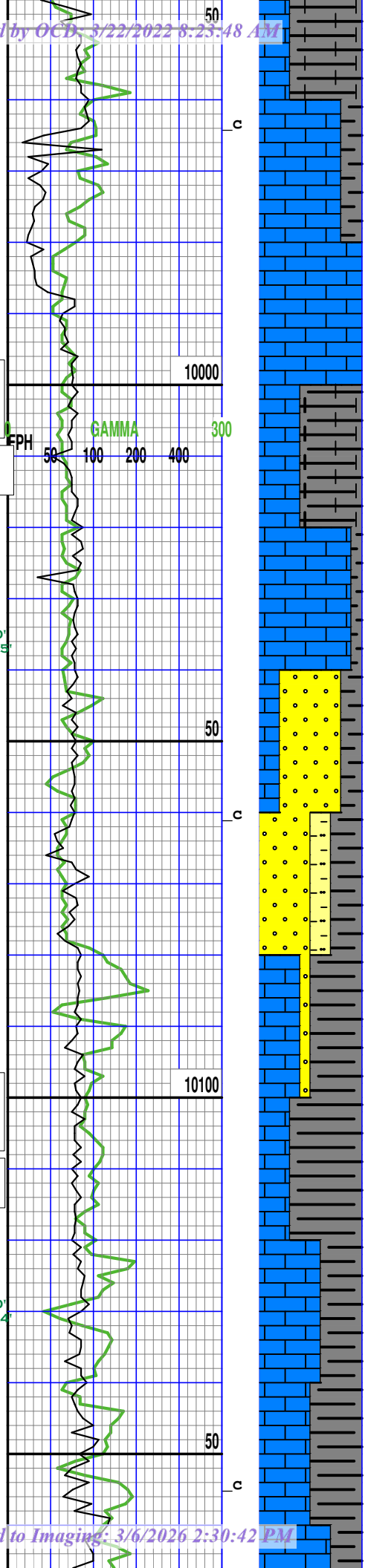
70% SH, 30% LS,
SH: V/DRKGRY- DRKGRY-OCC BLK,
SUBBLKY- BLKY- MECH, FRM- BRIT-
M SFT, VFN TO SLTY TXT, V/ CALC,
NO MIN FLOUR.

100% LS,
LS: XLNCARB, GRY- MEDGRY- DRKGRY,
PLTY SUB BLKY- OCC SUBRND, FRI TO
SCAT BRIT, SLI ARG, SMTH, NO MIN
FLOUR

60% SS, 20% SH, 20% LS,
SS: OFFWHT- V/LTGRY- LTGRY, FRM-
FRM, MOD CONSOL, VFN GRN, SUB
RND - SUBANG, CALC CMNT, WL
SRT, NO MIN FLUOR

50% SH, 40% LS, 10% SS,
SH: V/DRKGRY- DRKGRY-OCC MED
GRY, SUBBLKY- BLKY- MECH, FRM-
BRIT- SFT, VFN TO SLTY TXT, CALC
IP, NO MIN FLOUR.

100% LS,
LS: WKSTN TO PKSTN, MOTT- LT
GRY- MEDGRY - DRKGRY, PLTY SUB
BLKY- SUBRND, FRI TO SCAT BRIT,
V/ ARG, NO MIN FLOUR



WOB 33
RPM 75
PP 3121
SPM 225
FLOW LINE

10200

WT IN 8.6
WT OUT 8.6
VIS 44/44

MD 10225.00'
TVD 10223.84'
INC 0.50°
AZM 268.13°
VS 5.06'
DLS 0.42°

FPH 50 100 200 400 300
GAMMA

50 c

WOB 34
RPM 78
PP 3019
SPM 227
FLOW LINE

10300

WT IN 8.6
WT OUT 8.6
VIS 44/44

MD 10319.00'
TVD 10317.83'
INC 0.49°
AZM 203.16°
VS 4.68'
DLS 0.57°

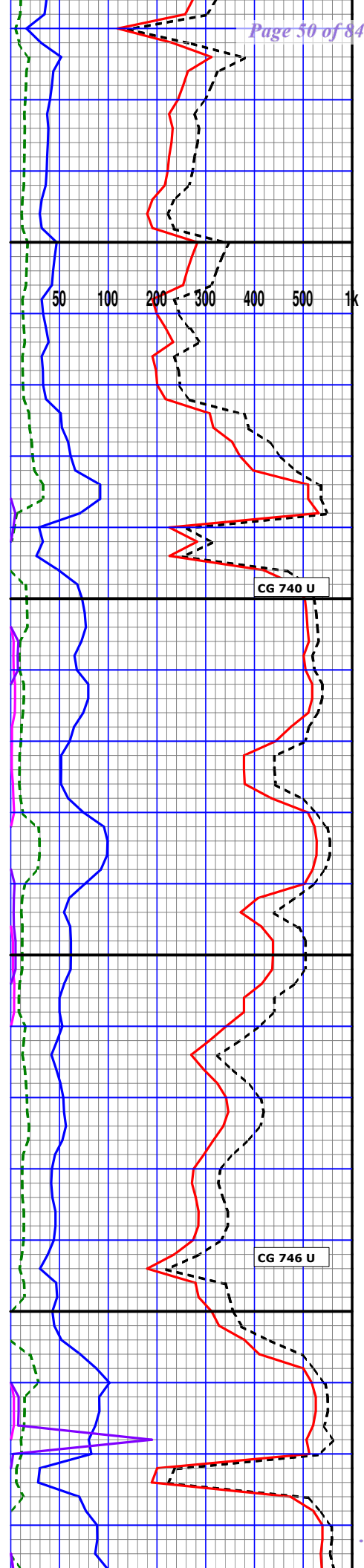
50 c

100% LS,
LS: WKSTN TO PKSTN, PREDOM
MOTT- LTGRY- MEDGRY - DRKGRY,
PLTY SUBBLKY- SUBRND, FRI TO
SCAT BRIT, V/ ARG, NO MIN FLOUR

60% SH, 40% LS,
SH: DRKGRY- MEDGRY, SUBBLKY-
BLKY- MECH, FRM- BRIT- SFT, VFN
TO SLTY TXT, CALC IP, NO MIN
FLOUR.

70% LS, 30% SH,
LS: WKSTN TO OCC PKSTN, PRE
DOM MOTT- LTGRY- MEDGRY -
DRKGRY, PLTY SUBBLKY- SUBRND,
FRI TO SCAT BRIT, V/ ARG, NO MIN
FLOUR

60% SH, 40% LS,
SH: DRKGRY- MEDGRY- SCAT V/DRK
GRY, SUBBLKY- BLKY- MECH, FRM-
BRIT- SFT, VFN TO SLTY TXT, CALC
IP, NO MIN FLOUR.



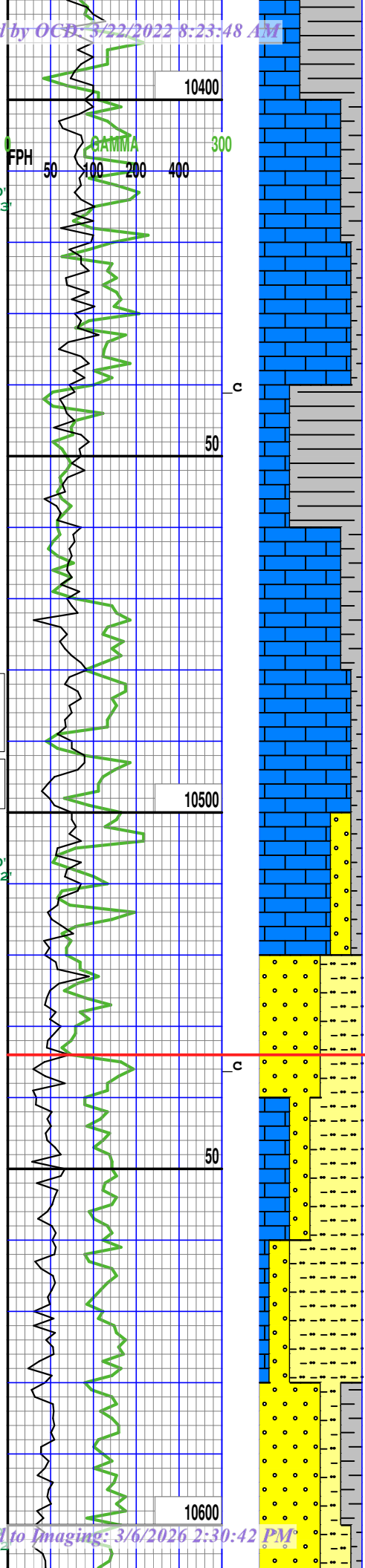
MD 10414.00'
TVD 10412.83'
INC 0.69°
AZM 164.61°
VS 3.76'
DLS 0.46°

WOB 25
RPM 77
PP 2975
SPM 228
FLOW LINE

WT IN 8.6
WT OUT 8.6
VIS 44/44

MD 10508.00'
TVD 10506.82'
INC 0.54°
AZM 141.43°
VS 2.86'
DLS 0.31°

MD 10603.00'
TVD 10601.82'
INC 0.23°



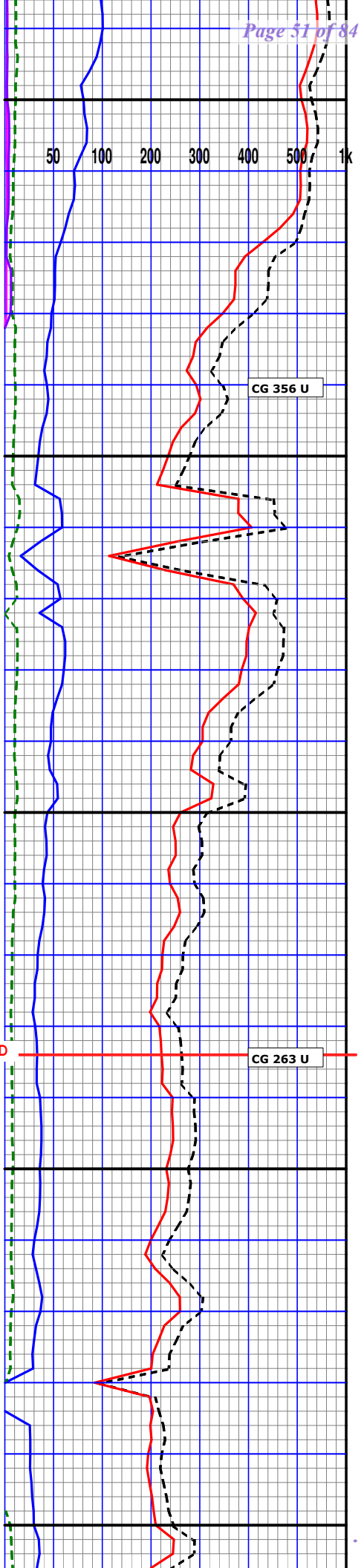
60% SH, 40% LS,
SH: DRKGRY- MEDGRY- GRY, SUB
BLKY- BLKY- MECH, FRM- BRIT- SFT,
VFN TO SLTY TXT, CALC IP, NO MIN
FLOUR.

30% LS, 70% SH,
LS: WKSTN, MOTT, LTGRY- MEDGRY -
DRKGRY, PLTY SUBBLKY- SUBRND,
FRI - SCAT BRIT, V/ ARG, NO MIN
FLOUR

90% LS, 10% SH,
LS: WKSTN, MOTT, LTGRY- MEDGRY -
DRKGRY, SUBBLKY- SUBRND, FRI -
SCAT BRIT, V/ ARG, NO MIN FLOUR

3RD BONE SPRING SS 10534' MD
10532.82' TVD (-7246.82' SS)

20% SS, 50% SI, 30% LS,
SI: DRKGRY- MGRY, LSLY CONSD,
V/FN - F GRN, SUBANG -SUBRND,
SCAT CALC CMNT, NO MIN FLOUR,



60% SS, 20% SH, 20% SI
SS: V/LTGRY- LTGRY, FRI - FRM OCC
HRD, WL CONSOL, VFN - FN GRN,
SUB RND SME SUBANG, CALC CMNT,
WL - MOD SRT, NO MIN FLUOR

70% SS, 10% SH, 20% SI
SS: V/LTGRY- LTGRY, FRI - FRM, WL
CONSOL, VFN - FN GRN, SUB RND
SME SUBANG, CALC CMNT, WL -
MOD SRT, NO MIN FLUOR

60% SS, 40% SI
SI: BLK-DRKGRY, MOD-WL CONSOL,
V/FN - F GRN, SUBANG -SUBRND,
SCAT CALC CMNT, NO MIN FLOUR,

70% SS, 10% SH, 20% SI
SS: V/LTGRY- LTGRY-OF WHT, FRI -
FRM SME V FRM, WL CONSOL, VFN -
FN GRN, SUB RND - SUBANG, CALC
CMNT, WL - MOD SRT, NO MIN
FLUOR

50% SH, 40% SI, 10% SS
SH: GRYISH BLK - DRKGRY, PRED
BLKY - SBBLKY TR MECH, M-V FRM,
VFN-SLTY TXT, CALC IP, NO MIN
FLUOR

WOB 23
RPM 74
PP 2969
SPM 226
FLOW LINE

WT IN 8.6
WT OUT 8.6
VIS 44/44

WOB 27
RPM 72
PP 2631
SPM 214
FLOW LINE

WT IN 8.7
WT OUT 8.7
VIS 42/42

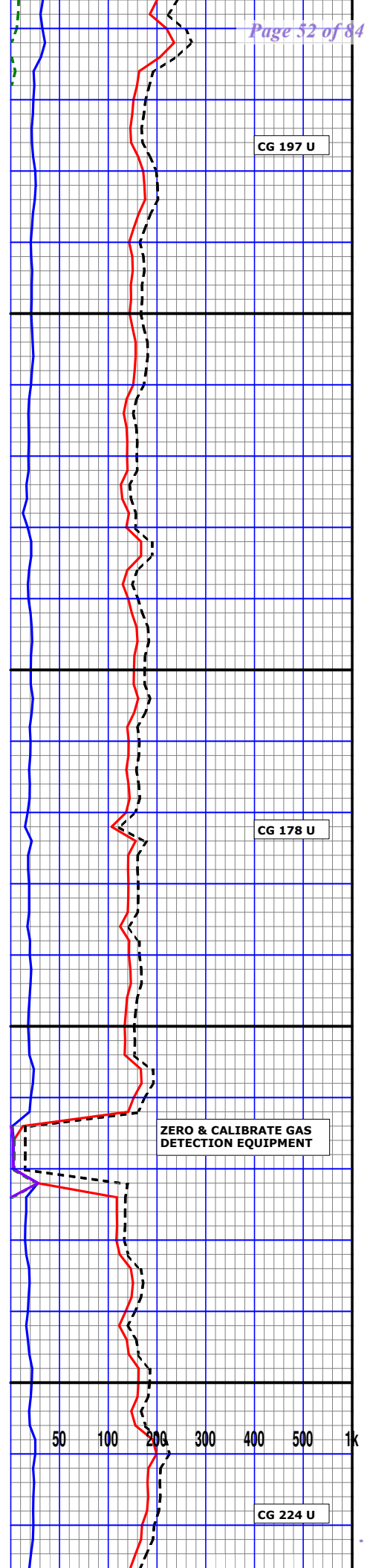
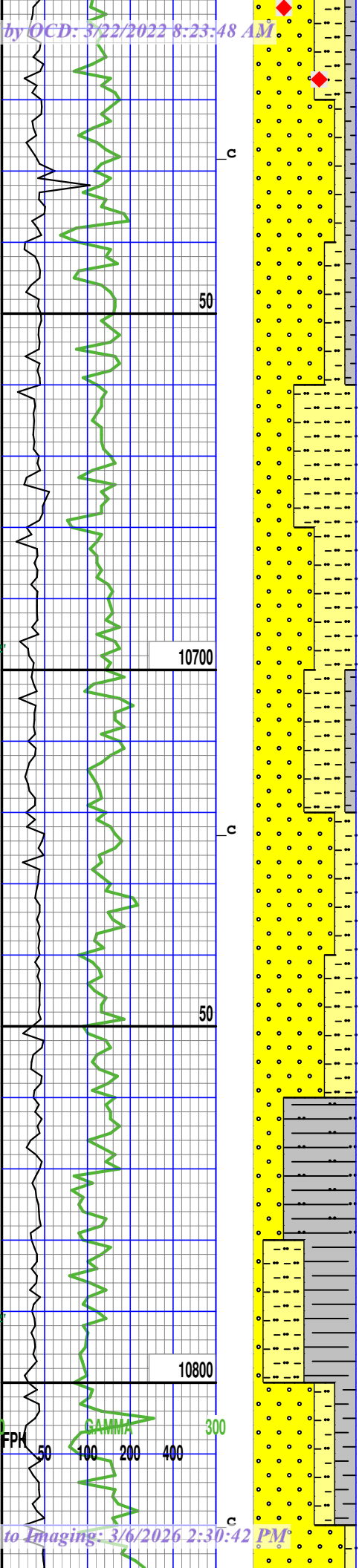
MD 10697.00'
TVD 10695.82'
INC 0.20°
AZM 215.41°
VS 2.16'
DLS 0.32°

10/6/20

MD 10791.00'
TVD 10789.82'
INC 0.30°
AZM 132.18°
VS 1.86'
DLS 0.36°

WOB 27
RPM 64
PP 2745
SPM 215
FLOW LINE

WT IN 8.7
WT OUT 8.7
VIS 42/42



CG 197 U

CG 178 U

CG 224 U

MD 10885.00'
TVD 10883.82'
INC 0.35°
AZM 30.52°
VS 1.94'
DLS 0.54°

WOB 25
RPM 69
PP 2673
SPM 212
FLOW LINE

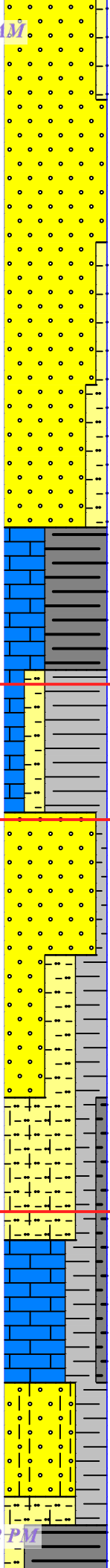
WT IN 8.7
WT OUT 8.7
VIS 42/42

MD 10980.00'
TVD 10978.82'
INC 0.54°
AZM 311.46°
VS 2.49'
DLS 0.62°

WOB 20
RPM 71
PP 2633
SPM 212
FLOW LINE

WT IN 8.7
WT OUT 8.7
VIS 42/42

FPI 50 100 200 400
GAMMA 300c



100% SS
SS: V/LTGRY- LTGRY-OF WHT, FRI -
FRM, WL CONSOL, VFN - FN GRN,
SUB RND - SUBANG, CALC CMNT, WL
- MOD SRT, NO MIN FLUOR

80% SS, 20% SI
SI: MGRY-DRKGRY, MOD-WL CONSOL,
V/FN - F GRN, PRED FRI SCAT SFT,
SUBANG -SUBRND, CALC CMNT, NO
MIN FLOUR,

90% SS, 10% SH,
SS: V/LTGRY- LTGRY-OFFWHT, FRI
TO FRM, WL CONSOL, VFN - FN
GRN, SUB RND - SUBANG, CALC
CMNT, WL TO MOD SRT, NO MIN
FLUOR

70% SI, 30% SH,
SI: LT/GRY- GRY- OFF WHT, MOD-
WL CONSOL, V/FN TO FN GRN,
SUBANG TO SUBRND, SCAT CALC
CMNT, NO MIN FLOUR,

WOLFCAMP 10922' MD (-7634.82' SS TVD)

WOLFCAMP X 10941' MD
10939.82' TVD (-7653.82' SS)

WOLFCAMP Y 10996' MD
10994.82' TVD (-7708.82' SS)

CG 249 U

CG 223 U

50 100 200 300 400 500 1k

80% SH, 20% SI,
SH: V/DRKGRY- DRKGRY-OCC BLK,
SUBBLKY- BLKY- MECH, FRM- BRIT-
SFT, VFN TO SLTY TXT, CALC IP, NO
MIN FLOUR.

WOLFCAMP A 11087' MD
11085.82' TVD (-7799.82' SS)

80% SH, 20% LS,
SH: V/DRKGRY- DRKGRY- BLK, SUB
BLKY- BLKY- MECH, FRM- BRIT- SFT,
VFN TO SLTY TXT, CALC IP, NO MIN
FLOUR.

90% SH, 10% SI,
SH: V/DRKGRY- DRKGRY, SUBBLKY-
BLKY- MECH, FRM- BRIT- SFT, VFN
TO SLTY TXT, CALC IP, NO MIN
FLOUR.

70% LS, 30% SH,
LS: WKSTN- PKSTN, MOTT- LTGRY-
MEDGRY - DRKGRY, SUBBLKY- SUB
RND- PLTY, FRI - SCAT BRIT, V/ ARG,
NO MIN FLOUR.

80% SH, 20% LS
SH: V/DRKGRY- DRKGRY, SUBBLKY-
BLKY- MECH, FRI- BRIT- SFT, VFN
TO SLI SLTY TXT, CALC IP, NO MIN
FLOUR.

SET 9 5/8" CASING @ 11,266'
CEMENT TO SURFACE, 160 BLS

MD 11074.00'
TVD 11072.82'
INC 0.52°
AZM 220.78°
VS 2.46'
DLS 0.80°

WOB 16
RPM 69
PP 3006
SPM 225
FLOW LINE

WT IN 8.65
WT OUT 8.65
VIS 42/42

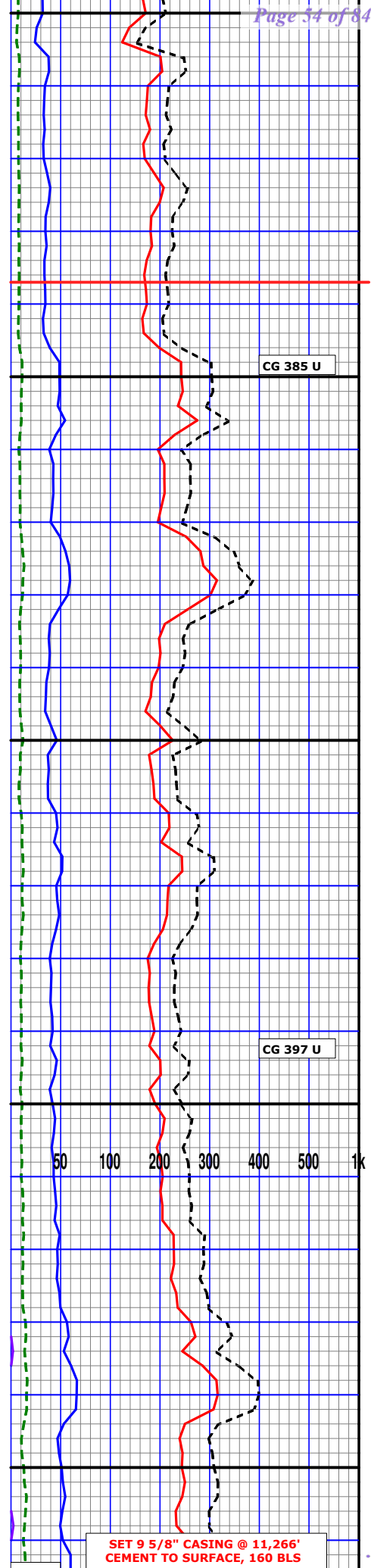
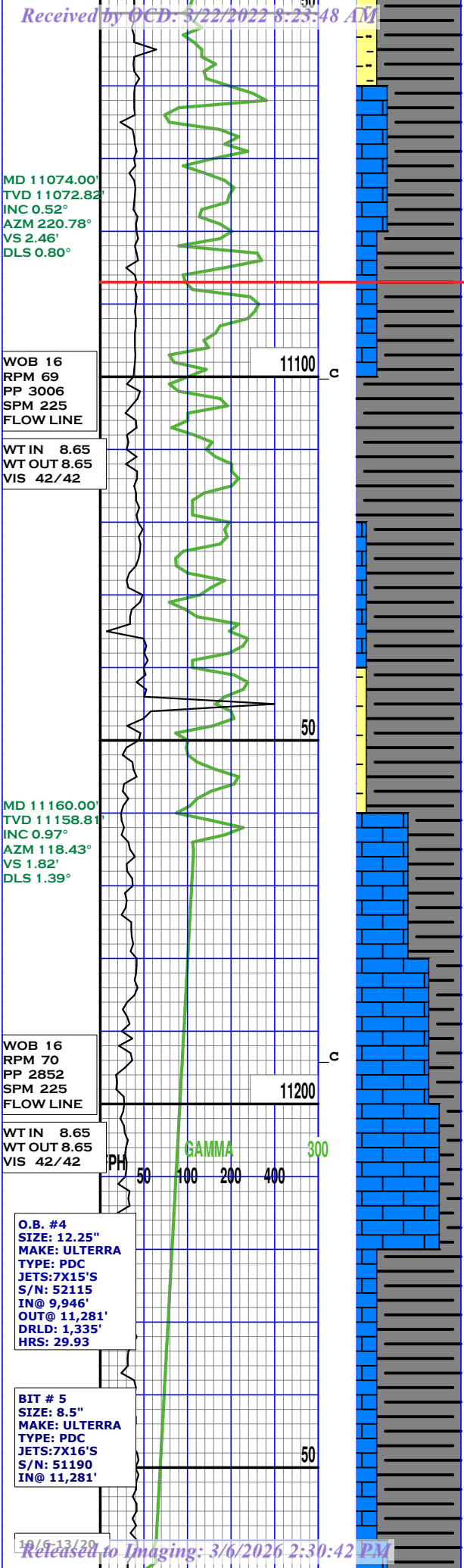
MD 11160.00'
TVD 11158.81'
INC 0.97°
AZM 118.43°
VS 1.82'
DLS 1.39°

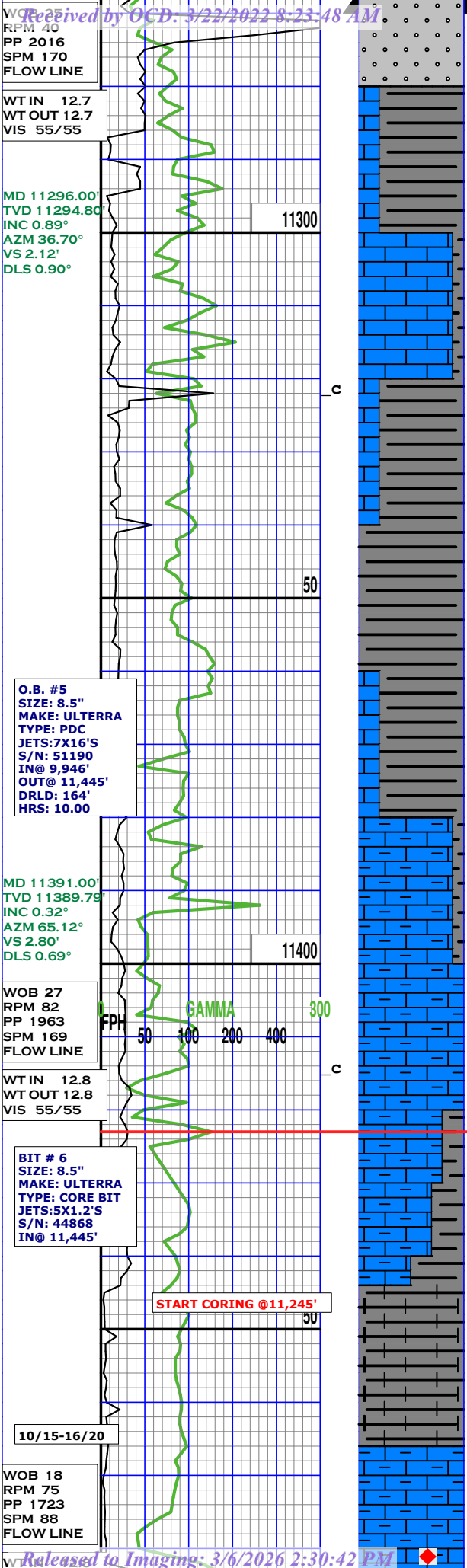
WOB 16
RPM 70
PP 2852
SPM 225
FLOW LINE

WT IN 8.65
WT OUT 8.65
VIS 42/42

O.B. #4
SIZE: 12.25"
MAKE: ULTERRA
TYPE: PDC
JETS: 7X15'S
S/N: 52115
IN@ 9,946'
OUT@ 11,281'
DRLD: 1,335'
HRS: 29.93

BIT # 5
SIZE: 8.5"
MAKE: ULTERRA
TYPE: PDC
JETS: 7X16'S
S/N: 51190
IN@ 11,281'





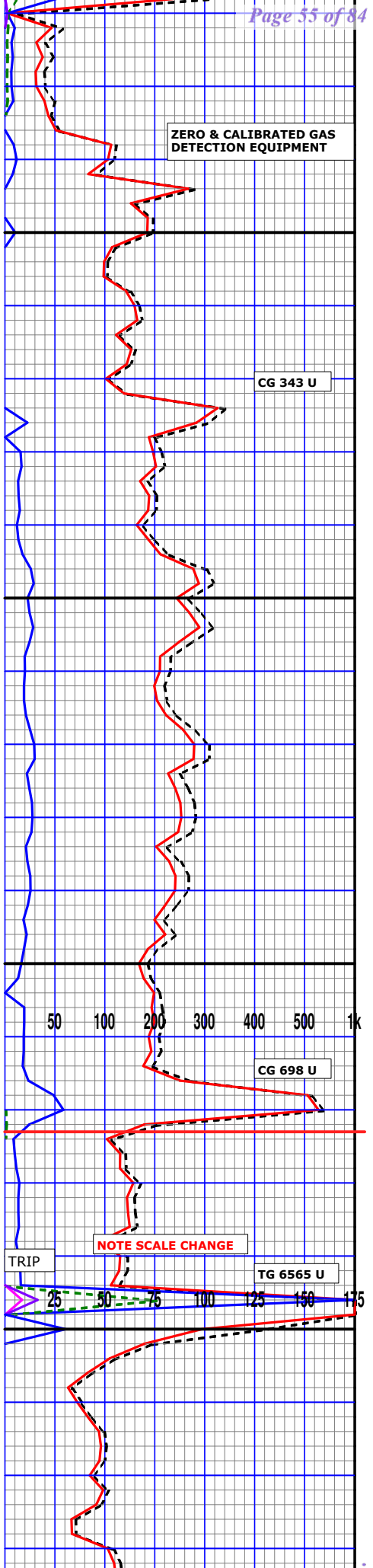
80% SH, 20% LS
SH: GRYISH BLK- DRKGRY, SUBBLKY-
BLKY- MECH, FRI- BRIT- SFT, VFN -
SLTY TXT, CALC IP, NO MIN FLOUR.

100% SH
SH: GRYISH BLK- DRKGRY, SUBBLKY-
BLKY- MECH, BRIT- SFT, VFN -SMTH
TXT, CALC IP, NO MIN FLOUR.

90% LS, 10% SH,
LS: PKSTN, MOTT- DRKGRY- CRM-
OFFWHT, SUBBLKY- SUBRND, FRI -
SCAT BRIT, V/ ARG, NO MIN FLOUR.

WOLFCAMP B 11423' MD
11421.79' TVD (-8135.79' SS)

100% SH,
SH: PRED BLK - GRYISH BLK SME
DRKGRY, BLKY- MECH, FRM TO HRD
TO BRIT, FN TXT, V/ CALC, NO MIN
FLOUR.



O.B. # 6
SIZE: 8.5"
MAKE: ULTERRA
TYPE: CORE BIT
JETS:5X1.2'S
S/N: 44868
IN@ 11,245'
OUT@ 11,536'
DRLD: 91'
HRS: 23

MD 11521.00'
TVD 11519.79'
INC 0.24°
AZM 71.67°
VS 3.09'
DLS 0.08°

BIT # 7
SIZE: 8.5"
MAKE: ULTERRA
TYPE: CORE BIT
JETS:5X1.2'S
S/N: 35864
IN@ 11,536'

10/17/20

WOB 18
RPM 60
PP 1309
SPM 93
FLOW LINE

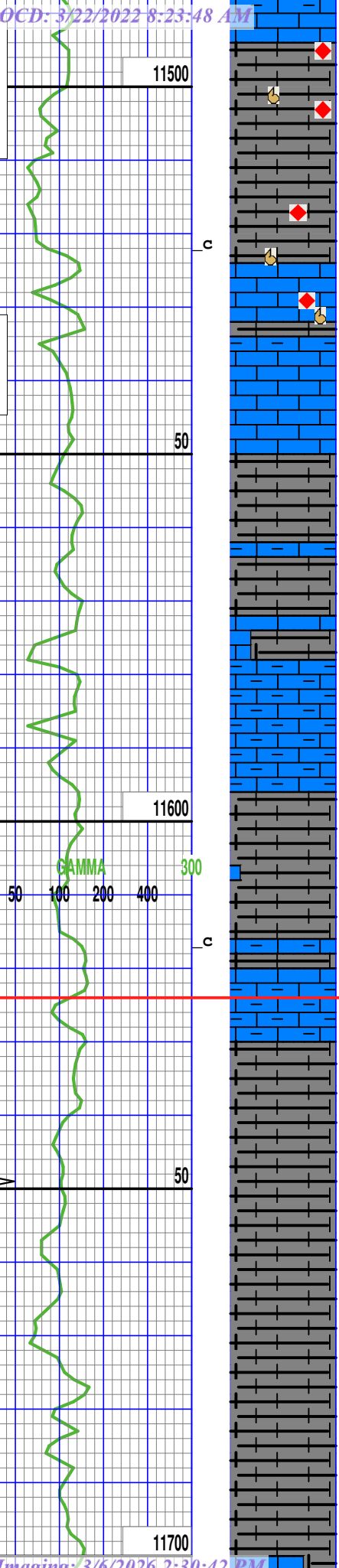
WT IN 12.8
WT OUT 12.8
VIS 50/50

MD 11616.00'
TVD 11614.79'
INC 0.15°
AZM 97.82°
VS 3.14'
DLS 0.13°

10/18/20

WOB 20
RPM 61
PP 1215
SPM 93
FLOW LINE

WT IN 12.8
WT OUT 12.8
VIS 49/47



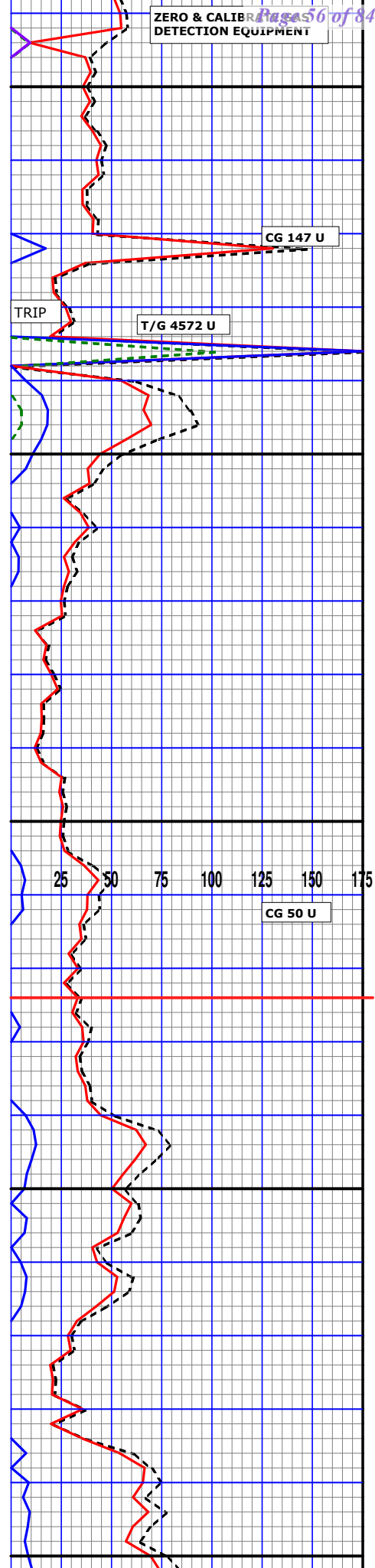
100% LS,
LS: WKSTN TO PKSTN, DRKGRY- OCC
OFFWHT, SUBBLKY- BLKY, FRI - SCAT
BRIT, ARG IP, OCC FRAC FILL, SCAT
FOSS MAT, NO MIN FLOUR.

90% SH, 10% LS
SH: PRED BLK - GRYISH BLK -
VDRKGRY, PRED MECH TR BLKY,
BRIT- SFT, VFN -FN TXT, LMY- CALC
IP, NO MIN FLOUR.

60% LS, 40% SH,
LS: WKSTN , LTGRY- CRM- GRYGRN,
PREDOM MECH, FRI - SFT - BRIT,
WXY TXT, ARG IP, NO MIN FLOUR.

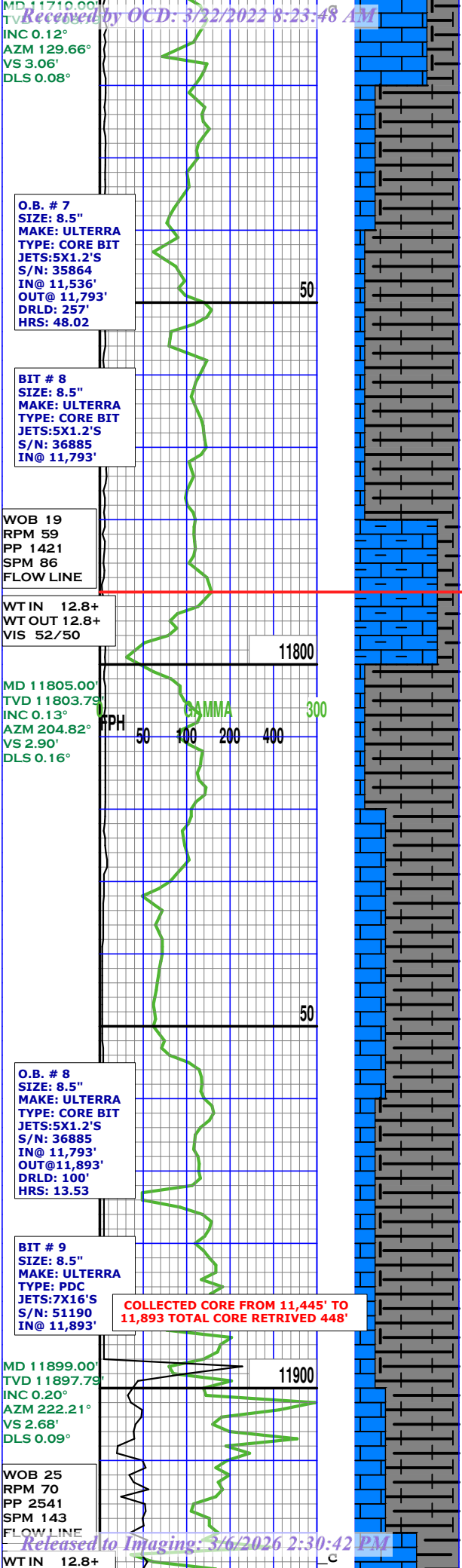
70% SH, 30% LS
SH: PRED BLK - GRYISH BLK SCAT
MGRY - LT BRN, PRED MECH TR BLKY,
BRIT- SFT, VFN -FN TXT, LMY- CALC
IP, NO MIN FLOUR.

100% SH
SH: PRED BLK - GRYISH BLK SCAT
MGRY, PRED MECH TR BLKY, BRIT-



WOLFCAMP C 11624' MD
11622.79' TVD (-8336.79' SS)

Received by OCD: 3/22/2022 8:23:48 AM



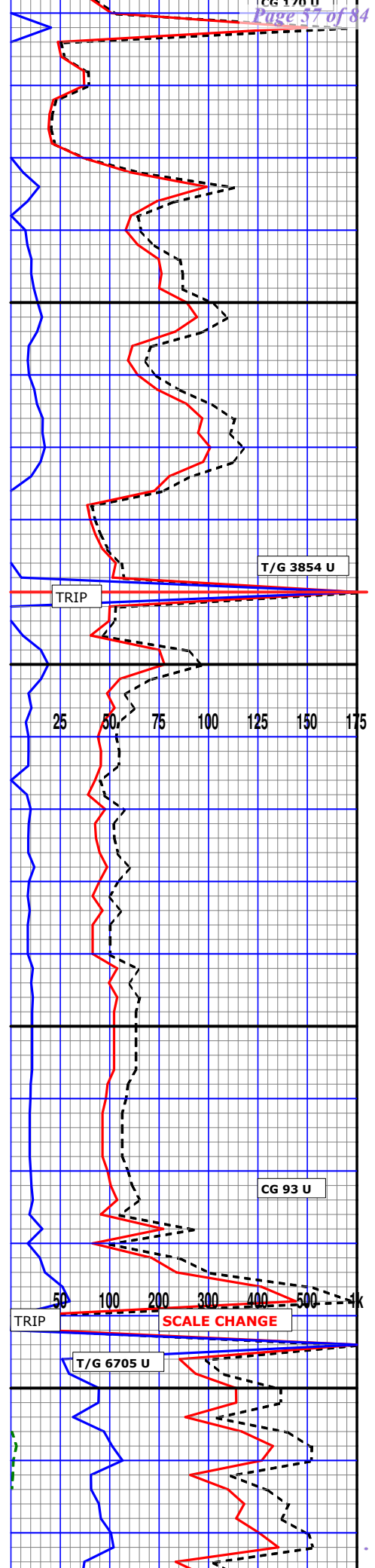
90% SH, 10% LS,
SH: BLK - GRYISH BLK- BRNISH GRY-
MGRY, PRED MECH TO TR SUBBLKY,
BRIT- SFT, VFN -FN TXT, CALC IP,
NO MIN FLOUR.

WOLFCAMP D/E 11790' MD
11788.79' TVD (-8502.79' SS)

90% SH, 10% LS,
SH: GRYISH BLK- MEDGRY- BRNISH
GRY, MECH TO SUBBLKY T SUBRND,
BRIT- SFT, VFN -FN TXT, CALC IP,
NO MIN FLOUR.

70% SH, 30% LS,
SH: V/DRKGRY- MEDGRY- BRNISH
GRY, MECH TO SUBBLKY, BRIT- SFT,
VFN -FN TXT, CALC IP, NO MIN
FLOUR.

70% SH, 30% LS,
SH: V/DRKGRY- MEDGRY- BLK, MECH
- SUBBLKY, BRIT- SFT, VFN -FN TXT,
CALC IP, NO MIN FLOUR.



O.B. # 9
SIZE: 8.5"
MAKE: ULTERRA
TYPE: PDC
JETS: 7X16'S
S/N: 51190
IN@ 11,893'
OUT@ 11,993'
DRLD: 100'
HRS: 5

BIT # 10
SIZE: 8.5"
MAKE: SMITH
TYPE: PDC
JETS: 6X16'S
S/N: JV3349
IN@ 11,993'

10/23/20

MD 12011.00
TVD 12009.70
INC 0.36°
AZM 231.73°
VS 2.32'
DLS 0.15°

WOB 29
RPM 40
PP 4056
SPM 203
FLOW LINE

WT IN 12.8+
WT OUT 12.8+
VIS 50/48

MD 12105.00
TVD 12103.79
INC 0.31°
AZM 255.73°
VS 2.08'
DLS 0.16°

WOB 29
RPM 18
PP 4313
SPM 209
FLOW LINE

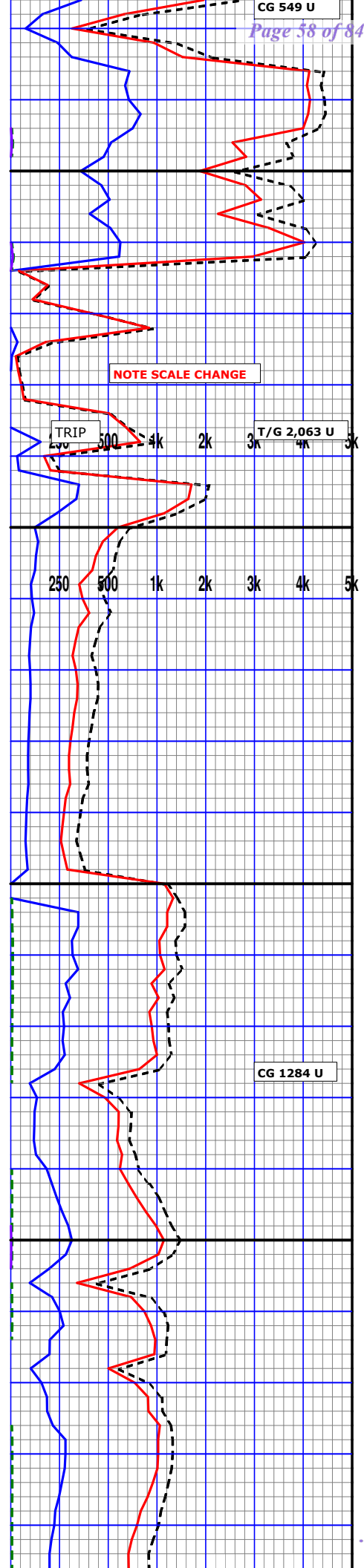
WT IN 12.8
WT OUT 12.9
VIS 52/52

60% SH, 40% LS,
SH: V/DRKGRY - BLK, PRED MECH
- SUBBLKY, BRIT- SFT, VFN OCC FN
TXT, CALC IP, NO MIN FLOUR.

90% SH, 10% LS,
SH: V/DRKGRY - BLK, PRED MECH
- SUBBLKY TO OCC RND, BRIT- SFT,
VFN OCC FN TXT, NO MIN FLOUR.

60% SH, 40% LS,
LS: PKSTN TO OCC WKSTN , MOTT
OFFWHT - CRM- GRY, PREDOM
MECH, FRI - SFT - BRIT, WXY TXT,
ARG IP, ABND PYRTIC SPECS, NO
MIN FLOUR.

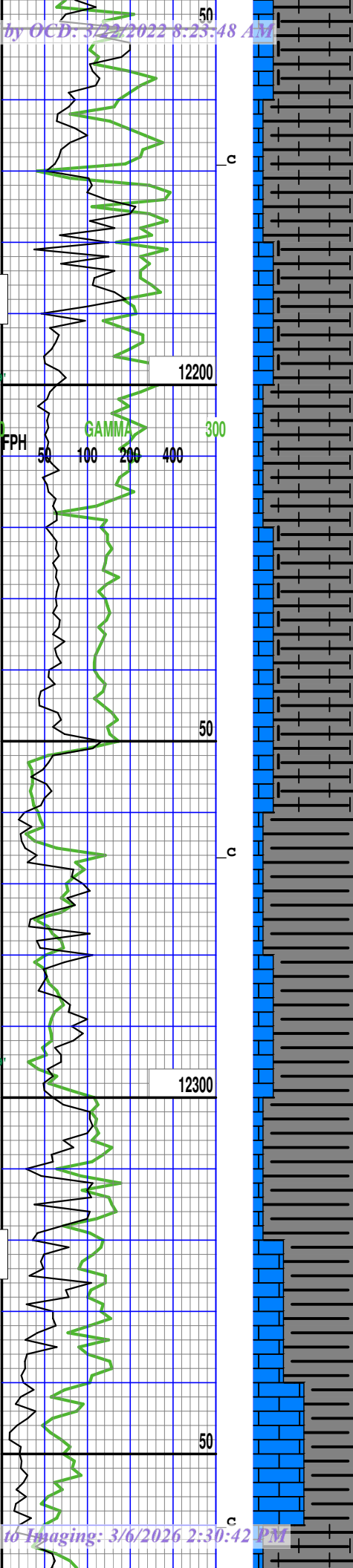
50% SH, 50% LS,
LS: PKSTN TO WKSTN , MOTT OFF
WHT - CRM- DRKGRY, PREDOM
MECH, FRI - SFT, WXY TXT, ARG IP,
ABND PYRTIC SPECS, NO MIN
FLOUR.



WOB 32
RPM 32
PP 4041
SPM 209
FLOW LINE

WT IN 12.8
WT OUT 12.8
VIS 52/52

MD 12199.00'
TVD 12197.79'
INC 0.38°
AZM 235.17°
VS 1.47'
DLS 0.10°



80% SH, 20% LS,
SH: V/DRKGRY - BLK, PRED MECH
- SUBBLKY TO OCC SBRND, BRIT- SFT,
VFN - FN TXT, NO MIN FLOUR.

CG 940 U

80% SH, 20% LS,
SH: PRED V/DRKGRY - BLK, PRED
MECH - SUBBLKY TR OCC SBRND,
BRIT SCAT SFT, VFN - FN TXT, NO
MIN FLOUR.

250 500 1k 2k 3k 4k 5k

80% SH, 20% LS,
SH: V/DRKGRY - BLK, PRED MECH
- SUBBLKY OCC BLKY, BRIT- SFT,
VFN OCC FN TXT, NO MIN FLOUR.

CG 2435 U

80% SH, 20% LS,
SH: V/DRKGRY - BLK SME GRYISH
BLK, MECH - SUBBLKY OCC BLKY,
BRIT- FRI, VFN OCC FN TXT, NO MIN
FLOUR.

MD 12294.00'
TVD 12292.79'
INC 0.52°
AZM 226.52°
VS 0.99'
DLS 0.16°

WOB 35
RPM 64
PP 3679
SPM 208
FLOW LINE

WT IN 12.7
WT OUT 12.8
VIS 51/49

50% SH, 50% LS,
LS: PKSTN - WKSTN , MOTT, OFF
WHT - CRM- DRKGRY, PREDOM
MECH, FRI - SFT, WXY TXT, ARG IP,
NO MIN FLOUR.

CG 2259 U

MD 12388.00'
TVD 12386.79'
INC 0.57°
AZM 218.94°
VS 0.33'
DLS 0.09°

WOB 26
RPM 60
PP 3641
SPM 202
FLOW LINE

WT IN 12.8
WT OUT 12.8
VIS 50/48

10/24/20

MD 12482.00'
TVD 12480.79'
INC 0.35°
AZM 234.18°
VS -0.20'
DLS 0.27°

WOB 36
RPM 58
PP 3608
SPM 204
FLOW LINE

WT IN 12.7
WT OUT 12.7
VIS 50/48

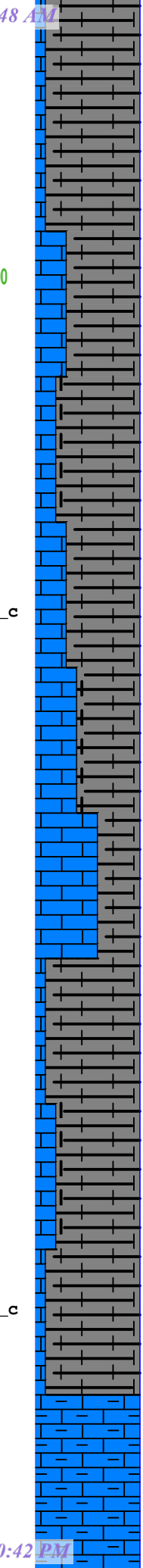
MD 12577.00'
TVD 12575.79'
INC 0.32°
AZM 289.50°
VS -0.50'
DLS 0.05°

12400

50

12500

50



90% SH, 10% LS,
SH: V/DRKGRY - BLK TR GRYISH
BLK, MECH - SUBBLKY - BLKY, BRIT-
FRI, VFN OCC FN TXT, NO MIN
FLOUR.

70% SH, 30% LS,
SH: V/DRKGRY - BLK TR GRYISH
BLK, MECH - SUBBLKY - BLKY, BRIT-
FRM, ARG, LMY IP, CALC, VFN OCC FN
TXT, NO MIN FLOUR.

40% SH, 60% LS,
LS: PKSTN - WKSTN , MOTT, OFF
WHT - CRM- M-DRKGRY, SBBLKY-
MECH, FM- SL HRD, WXY TXT, ARG IP,
NO MIN FLOUR.

90% SH, 10% LS,
SH: V/DRKGRY - BLK TR GRYISH
BLK, MECH - SUBBLKY, BRIT- FRI,
LMY IP, CALC, VFN OCC FN TXT, NO
MIN FLOUR.

250 500 1k 2k 3k 4k 5k

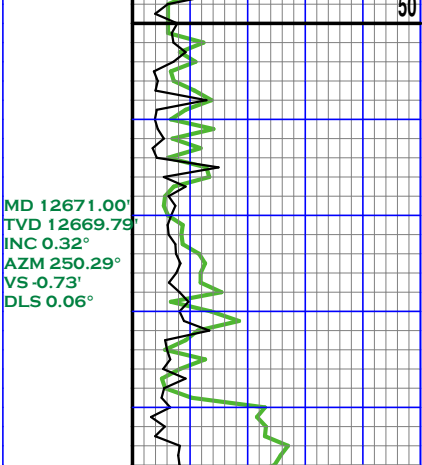
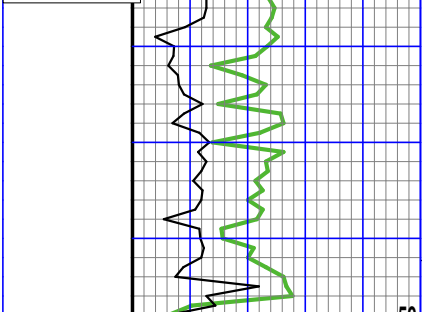
CG 1325 U

CG 1633 U

WOB 28
RPM 32
PP 3330
SPM 189
FLOW LINE

WT IN 12.8
WT OUT 12.8
VIS 50/48

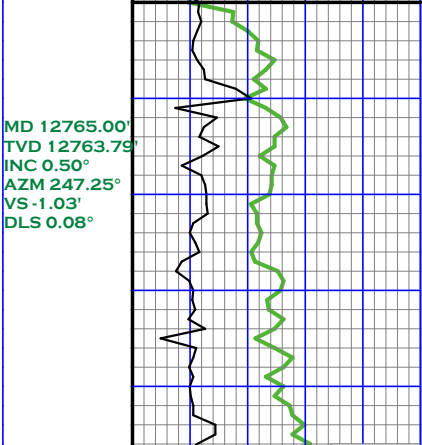
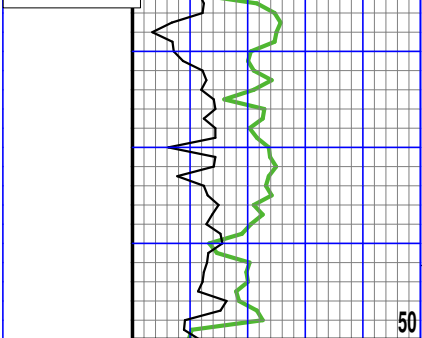
12600



WOB 34
RPM 39
PP 3139
SPM 187
FLOW LINE

WT IN 12.8
WT OUT 12.8
VIS 49/49

12700



WOB 32
RPM 40
PP 3139
SPM 189
FLOW LINE

12800



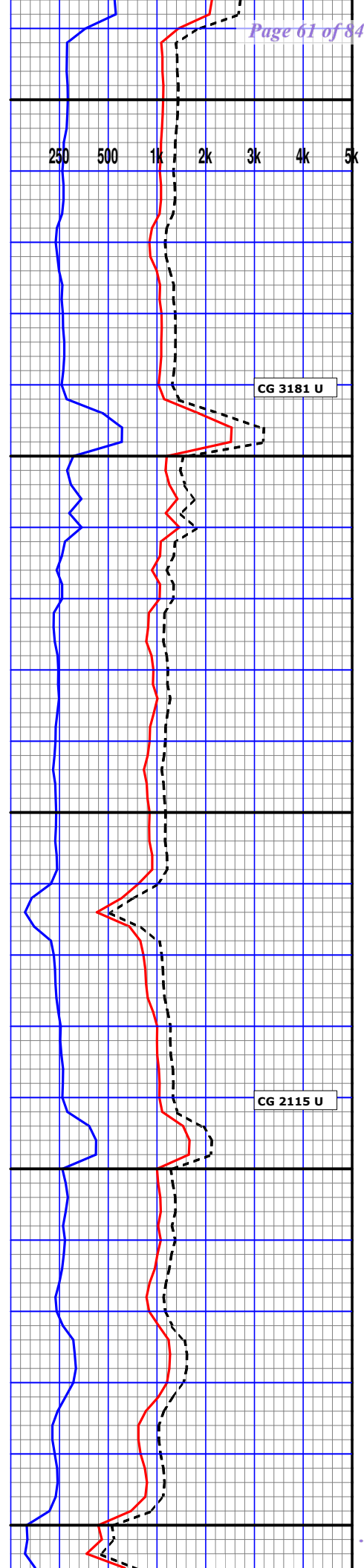
100% LS,
LS: WKSTN TO OCC PKSTN , MOTT,
OFFWHT - MEDGRY, SBBLKY- MECH,
SFT- FRI, WXY TXT, ARG IP, NO MIN
FLOUR.

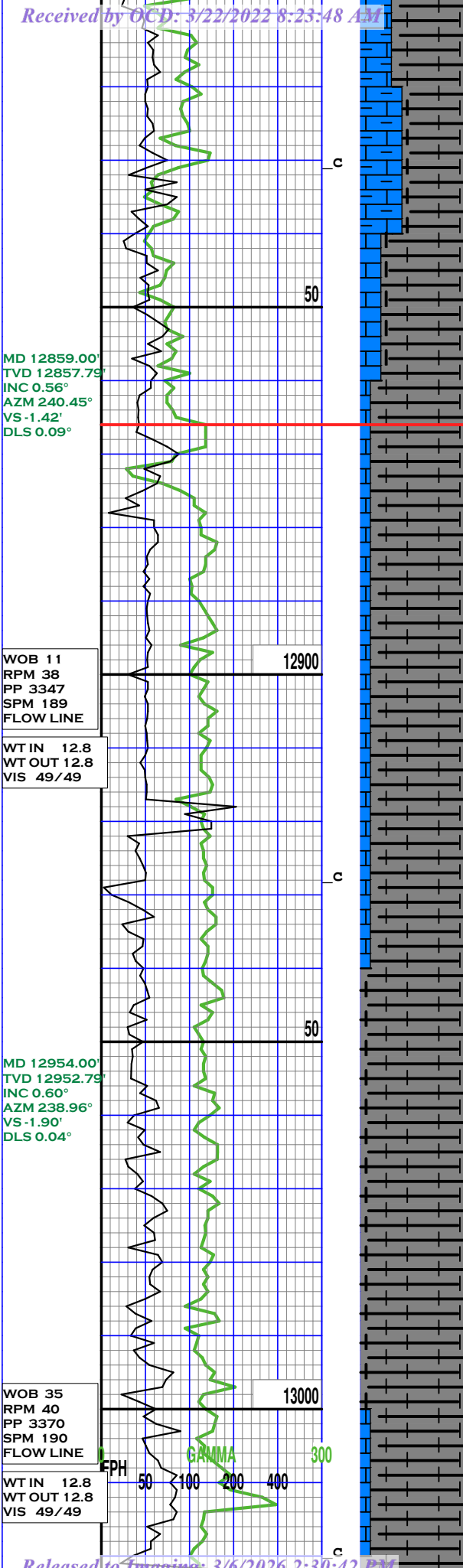
80% LS, 20% SH,
LS: WKSTN, MOTT, OFFWHT - MED
GRY, SBBLKY- MECH, SFT- FRI, WXY
TXT, ARG IP, NO MIN FLOUR.

80% LS, 20% SH,
LS: WKSTN, MOTT, OFFWHT - MED
GRY- LTGRRY, SBBLKY- MECH, SFT-
FRI, WXY TXT, ARG IP, NO MIN
FLOUR.

90% SH, 10% LS,
SH: DRKGRY - BRNISHGRY, SUBRND-
MECH - SUBBLKY, BRIT TO FRI TO
OCC FRM, VFN OCC FN TXT, CALC
IP, TRC PYRTC SPECS, NO MIN
FLOUR.

80% SH, 20% LS,
SH: DRKGRY - MEDGRY, SUBRND-
SUBBLKY, BRIT TO FRI TO, VFN OCC
FN TXT, CALC IP, TRC PYRTC
SPECS, NO MIN FLOUR.





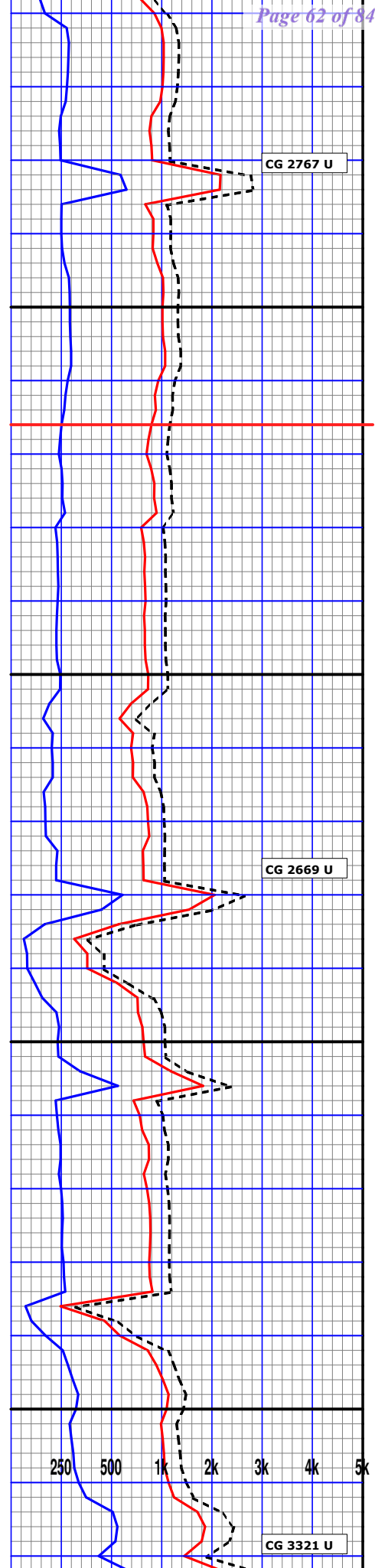
80% SH, 20% LS,
SH: DRKGRY - MEDGRY- SCAT BRN
ISHGRY, SUBRND- SUBBLKY- MECH,
BRIT TO FRI TO, VFN OCC FN TXT,
CALC IP, TRC PYRTIC SPECS, NO
MIN FLOUR.

CISCO/CANYON 12866' MD
12864.79' TVD (-9578.79' SS)

90% SH, 10% LS,
SH: MEDGRY - GRY, SUBRND- SUB
BLKY- MECH, SFT- BRIT TO FRI TO,
VFN OCC FN TXT, CALC IP, TRC
PYRTIC SPECS, NO MIN FLOUR.

100% SH,
SH: MEDGRY - GRY- BRNISH GRY,
SUBRND- SUBBLKY- MECH, SFT-
BRIT TO FRI, VFN OCC FN TXT, V/
CALC, TRC PYRTIC SPECS, NO MIN
FLOUR.

100% SH,
SH: MEDGRY - GRY- BRNISH GRY,
SUBRND TO SUBBLKY TO MECH,
SFT TO BRIT TO FRI, VFN OCC FN
TXT, V/ CALC, TRC PYRTIC SPECS,
NO MIN FLOUR.



MD 13048.00'
TVD 13046.78'
INC 0.63°
AZM 235.55°
VS -2.45'
DLS 0.05°

WOB 29
RPM 43
PP 3268
SPM 188
FLOW LINE

WT IN 12.7
WT OUT 12.8
VIS 49/47

MD 13142.00'
TVD 13140.77'
INC 0.63°
AZM 243.28°
VS -2.97'
DLS 0.09°

WOB 34
RPM 41
PP 3274
SPM 188
FLOW LINE

WT IN 12.8
WT OUT 12.8
VIS 49/47

MD 13237.00'
TVD 13235.76'
INC 0.72°
AZM 254.06°
VS -3.37'
DLS 0.16°

50

13100

50

13200

300

100% SH,
SH: MEDGRY - GRY- BRNISH GRY,
SUBRND - SUBBLKY - MECH,
SFT - BRIT, VFN OCC FN TXT, V/
CALC, TRC PYRTIC SPECS, NO MIN
FLOUR.

100% SH,
SH: MEDGRY - GRY TR BRNISH GRY,
SUBRND - SUBBLKY - MECH, SFT -
BRIT, VFN OCC FN TXT, V/ CALC, NO
MIN FLOUR.

100% SH,
SH: MEDGRY - GRY TR BRNISH GRY,
PRED SUBBLKY OCC MECH, SFT -
BRIT, VFN OCC FN TXT, V/ CALC, NO
MIN FLOUR.

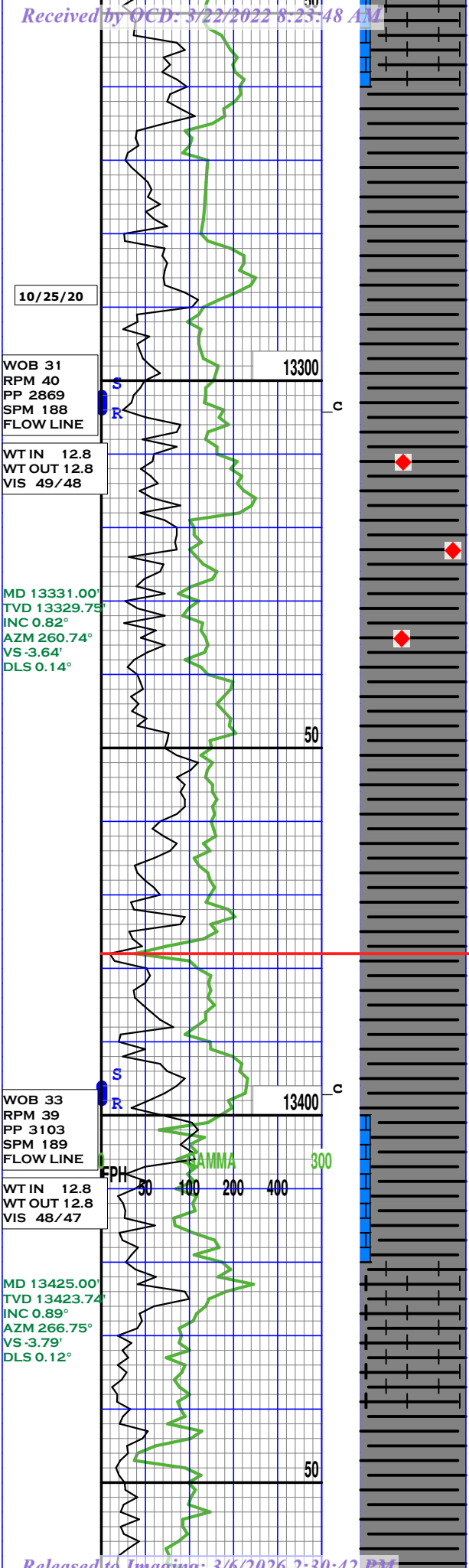
10% LS, 90% SH,
LS: WKSTN, MOTT, OFFWHT - MED
GRY- LTGRRY, SBBLKY- MECH, MSTLY
SFT- FRI, TR WXY TXT, ARG IP, NO MIN
FLOUR.

DTG 6088 U

CG 5279 U

CG 2555 U

250 500 1k 2k 3k 4k 5k



90% SH, 10% LS
SH: MGRY - BLK- DRK GRY, SUBRND -
SUBBLKY- MECH, SFT- BRIT TO FRI,
VFN OCC FN TXT, V/ CALC, NO MIN
FLOUR.

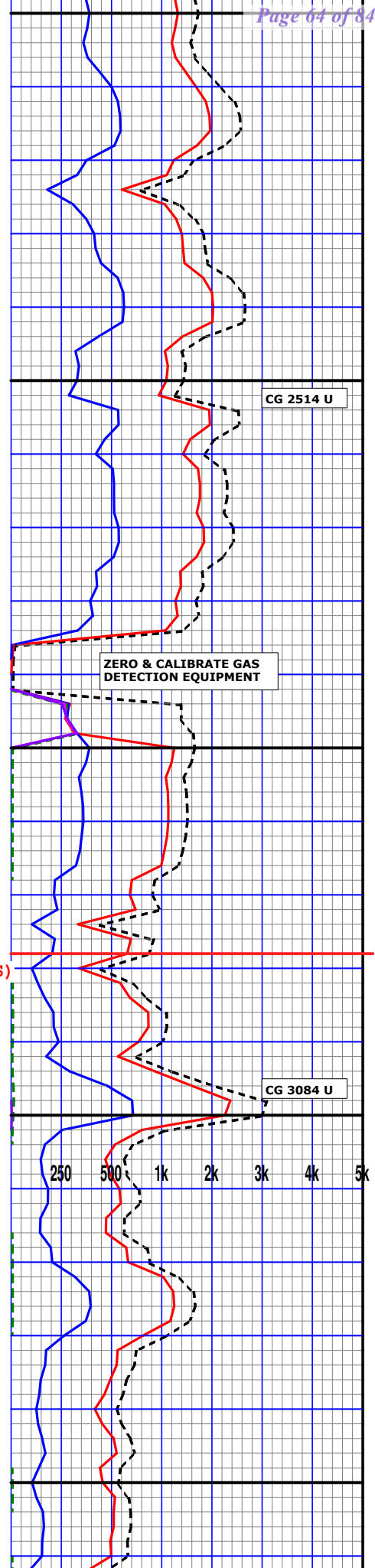
100% SH,
SH: BLK - DRKGRY TR BRNISH GRY,
PRED SUBBLKY OCC MECH, SFT -
BRIT, VFN OCC FN TXT, V/ CALC, NO
MIN FLOUR.

100% SH,
SH: V/DRKGRY - BLK, PRED MECH
- SUBBLKY OCC SBRND, BRIT- SFT,
VFN OCC FN TXT, NO MIN FLOUR.

STRAWN LIME 13378' MD
13376.75' TVD (-10090.75' SS)

100% SH,
SH: V/DRKGRY - BLK, PRED MECH
- SUBBLKY OCC BLKY, FRI-BRIT- SFT,
VFN OCC FN TXT, NO MIN FLOUR.

100% SH,
SH: V/DRKGRY - BLK, PRED MECH
- SUBBLKY OCC BLKY, PRED FRI-BRIT
TR MOD FRM, PRED VFN OCC FN-M
TXT, CALC IP, NO MIN FLOUR.



WOB 35
RPM 40
PP 3137
SPM 189
FLOW LINE

WT IN 12.8
WT OUT 12.8
VIS 48/47

MD 13520.00'
TVD 13518.73'
INC 0.90°
AZM 262.42°
VS -3.93'
DLS 0.07°

13500

50

13600

WOB 31
RPM 42
PP 3586
SPM 189
FLOW LINE

WT IN 13.0
WT OUT 13.0
VIS 49/48

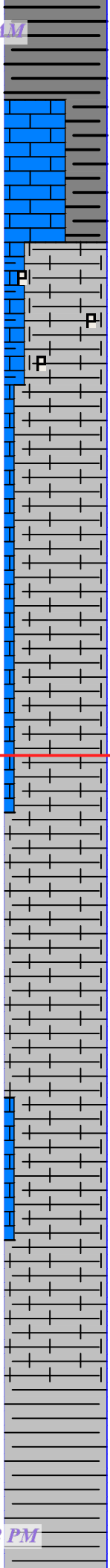
MD 13614.00'
TVD 13612.72'
INC 0.93°
AZM 259.37°
VS -4.17'
DLS 0.06°

300

50

WOB 41
RPM 41
PP 3391
SPM 189

50



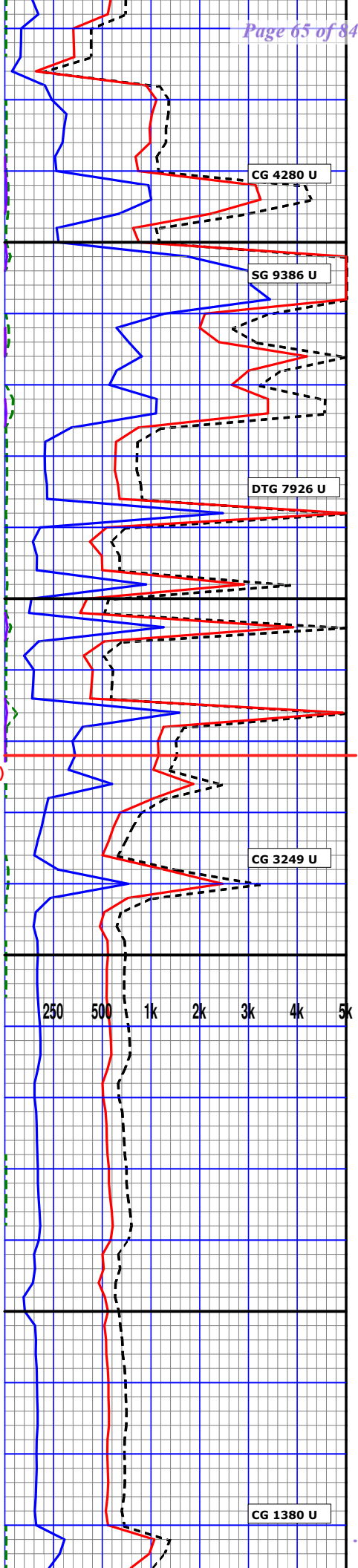
60% LS, 40% SH,
LS: WKSTN TO PKSTN, MOTT, OFF
WHT - WHT, SBBLKY- MECH, MSTLY
SFT- FRI, TR WXY TXT, ARG IP, NO
MIN FLOUR.

90% SH, 10% LS,
SH: MED - DRKGRY, SUBBLKY OCC
MECH, PRED MFRM SME FRI -SFT,
DULL-MED OCC SLTY TXT, CALC
IP, NO MIN FLOUR,

ATOKA SS 13572' MD
13570.72' TVD (-10284.72' SS)

100% SH
SH: MED - DRKGRY, SUBBLKY OCC
MECH, PRED SL FRM SME FRI -
SFT, PRED SLTY TXT, SL CALC IP, NO
MIN FLOUR

100% SH
SH: MED - DRKGRY, SUBBLKY OCC
MECH, PRED SL FRM SME FRI -
SFT, PRED SLTY TXT, TR LMY IP,
CALC IP, NO MIN FLOUR



100% SH
SH: MED - DRKGRY SME BRNISH BLK,
SUBBLKY -MECH, PRED MEDFRM SME
FRI -SFT, DULL-MED OCC SLTY TXT,
CALC IP, NO MIN FLOUR,

ATOKA BANK LM. 13705' MD
13705.00' TVD (-10419.00' SS)

100% SH
SH: MED - DRKGRY SME BRNISH BLK,
SUBBLKY -MECH, PRED MEDFRM SME
FRI -SFT, PRED SLTY SME VFN TXT,
CALC IP, NO MIN FLOUR,

30% LS, 70% SH,
LS: WKSTN, MOTT, OFF WHT - WHT
- LTGRY, BLKY OCC SBBLKY- MECH,
MSTLY SFT- FRI, VFN TXT, ARG IP,
NO MIN FLOUR.

90% LS, 10% SH,
LS: PKSTN-WKSTN, MOTT, OFF WHT
- WHT - LTGRY, BLKY OCC SBBLKY-
MECH, PRED SFT- FRI, VFN-FN TXT,
ARG IP, NO MIN FLOUR.

90% SH, 10% LS,
SH: MED- DRKGRY, SUBBLKY -MECH,
PRED FRM TO FRI TO SFT, PRED

MD 13708.00'
TVD 13706.71'
INC 1.03°
AZM 256.62°
VS -4.51'
DLS 0.12°

10/26/20

MD 13802.00'
TVD 13800.69'
INC 1.06°
AZM 253.53°
VS -4.95'
DLS 0.07°

WOB 43
RPM 40
PP 3439
SPM 188
FLOW LINE

WT IN 13.0
WT OUT 13.0
VIS 49/47

MD 13896.00'
TVD 13894.67'
INC 1.08°
AZM 256.99°
VS -5.44'
DLS 0.02°

13700

50

13800

50

13900

c

c

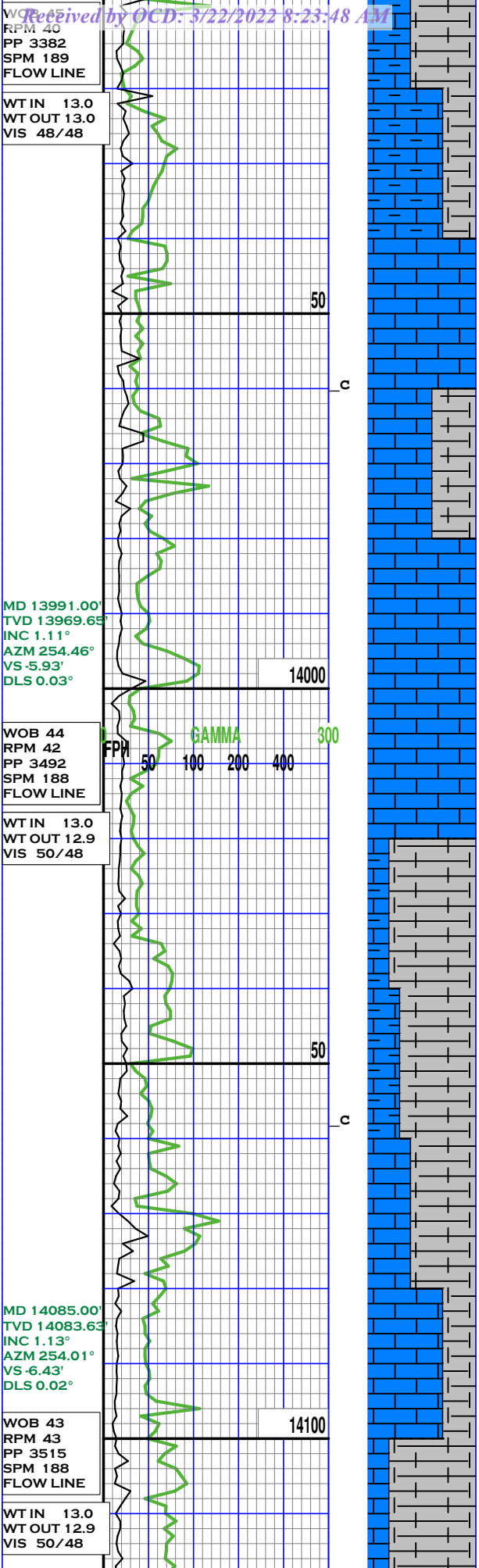
CG 1180 U

ZERO & CALIBRATE GAS
DETECTION EQUIPMENT

250 500 1k 2k 3k 4k 5k

CG 3238 U

SLTY SME VFN TXT, V/ CALC, SCAT MICRO MICA, NO MIN FLOUR,



100% LS,
LS: WKSTN, MOTT- OFFWHT- WHT-
TN- LTGRY, BLKY TO OCC SBBLKY TO
MECH, PRED FRM- SFT- FRI, VFN-FN
TXT, ARG IP, NO MIN FLOUR.

CG 2761 U

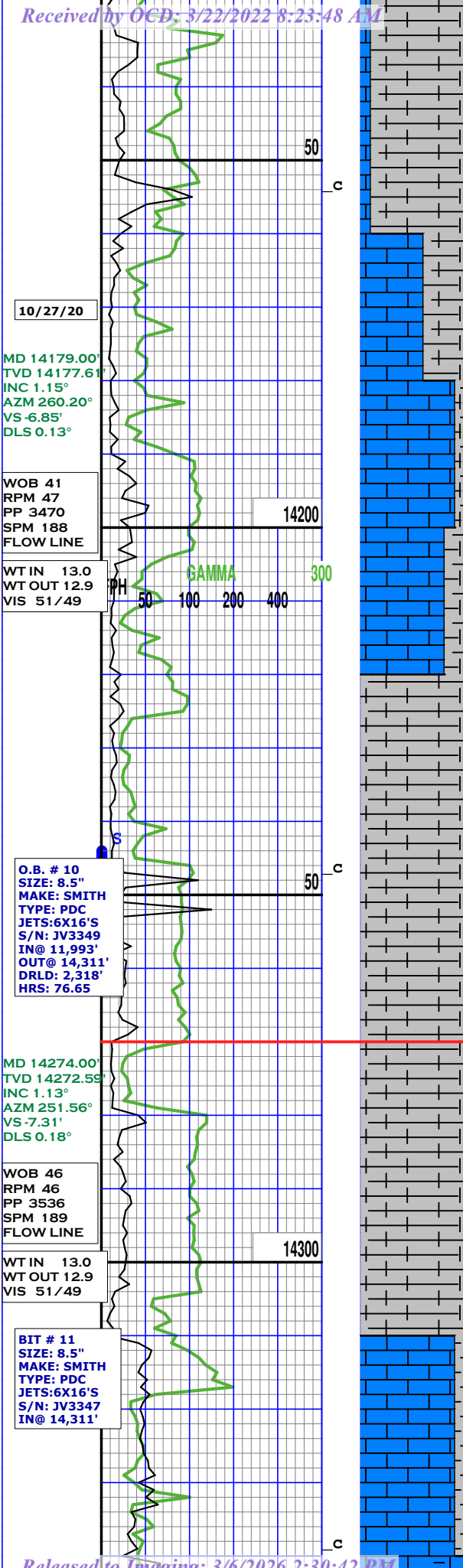
100% LS,
LS: WKSTN, MOTT- OFFWHT- WHT-
OCC TN, BLKY TO OCC SBBLKY TO
MECH, PRED FRM- SFT- FRI, VFN-
FN TXT, ARG IP, NO MIN FLOUR.

250 500 1k 2k 3k 4k 5k

70% SH, 30% LS,
SH: MED- GRY, SUBBLKY TO MECH,
FRI TO SFT, PRED SLTY SME VFN
TXT, V/ CALC, SCAT MICRO MICA,
NO MIN FLOUR,

CG 1078 U

30% SH, 70% LS,
SH: LT-MED GRY, SUBBLKY - MECH,
FRI - SFT, PRED SLTY SME VFN
TXT, V/ CALC, NO MIN FLOUR,



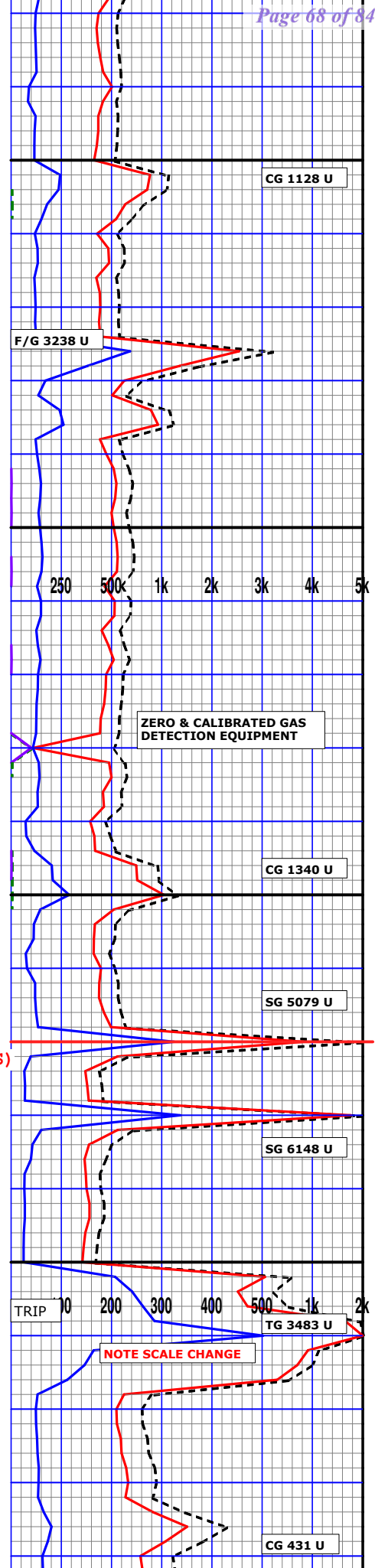
10% LS, 90% SH
LS: WKSTN, MOTT- OFFWHT- WHT- TN, BLKY - OCC SBBLKY -MECH, PRED FRM- SFT- FRI, VFN-FN TXT, ARG IP, NO MIN FLOUR.

90% LS, 10% SH
LS: WKSTN, MOTT- OFFWHT- WHT- TN, BLKY - OCC SBBLKY -MECH, FRM- SFT- FRI, VFN-FN TXT, ARG IP, NO MIN FLOUR.

100% SH,
SH: MEDGRY TO DRKGRY, SUBBLKY - MECH, FRM - BRIT, PRED MED TO SLI SLTY TO VFN TXT, CARB IP, CALC IP, NO MIN FLOUR,

MORROW LIME SH 14270' MD 14268.59' TVD (-10982.59' SS)

100% SH,
SH: DRKGRY TO V/DRKGRY, SUB BLKY - MECH, FRM - BRIT, PRED MED TO SLI SLTY TO VFN TXT, CARB IP, CALC IP, NO MIN FLOUR,



MD 14368.00'
TVD 14366.57'
INC 1.13°
AZM 249.17°
VS -7.93'
DLS 0.05°

WOB 29
RPM 41
PP 3580
SPM 179
FLOW LINE

WT IN 13.2+
WT OUT 13.2+
VIS 52/52

MD 14463.00'
TVD 14461.55'
INC 1.27°
AZM 250.52°
VS -8.62'
DLS 0.15°

WOB 28
RPM 44
PP 3157
SPM 178
FLOW LINE

WT IN 13.2+
WT OUT 13.2+
VIS 52/52

MD 14557.00'
TVD 14555.52'
INC 1.72°
AZM 251.29°
VS -10.17'
DLS 1.15°

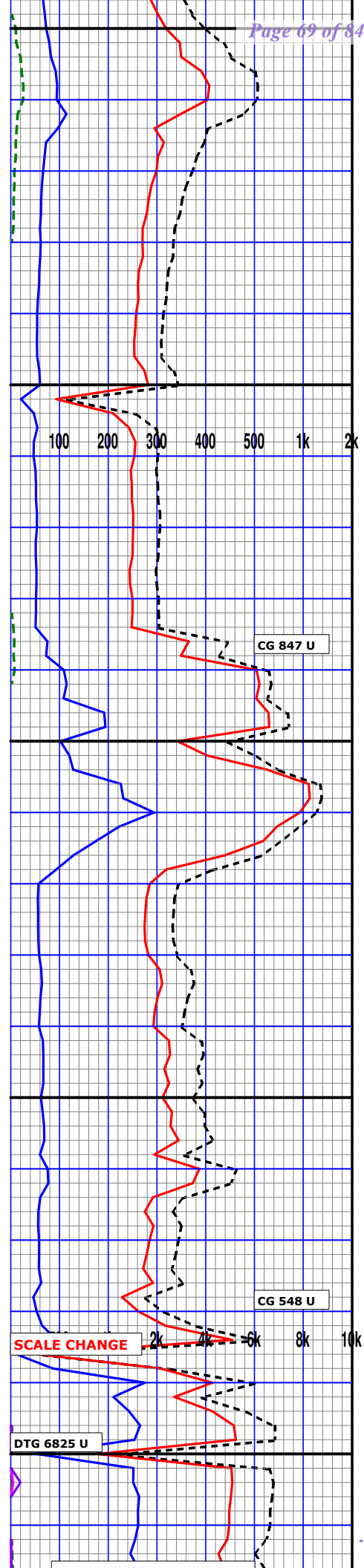
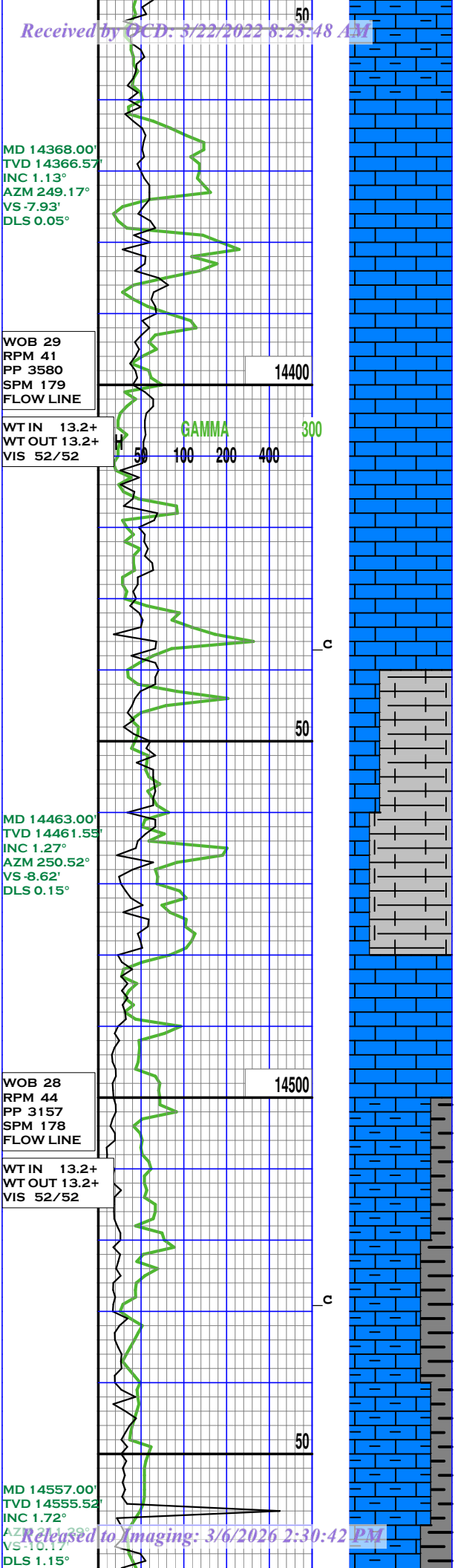
100% LS,
LS: WKSTN TO PKSTN, MOTT- OFF
WHT- WHT- GRY- TN, BLKY TO SUB
BLKY -MECH, FRM- SFT- FRI, VFN-FN
TXT, ARG IP, NO MIN FLOUR.

100% LS,
LS: GRNSTN TO PKSTN, GRYGRN-
GRY, BLKY TO SUBBLKY -MECH, FRM-
HRD- FRI, VFN-FN TXT, NO MIN
FLOUR.

80% SH, 20% LS,
SH: DRKGRY TO BRNGRY, SUBBLKY -
MECH, FRM - BRIT, PRED MED TO
SLI SLTY TO VFN TXT, CARB IP,
CALC IP, NO MIN FLOUR,

100% LS,
LS: PKSTN TO WKSTN, GRYGRN-
GRY, BLKY TO SUBBLKY -MECH,
FRM- HRD- FRI, VFN-FN TXT, NO
MIN FLOUR.

100% LS,
LS: PKSTN - WKSTN, LT-MGRY-
GRY, BLKY - SUBBLKY -MECH, FRM
SME HRD- FRI, VFN-FN TXT, NO
MIN FLOUR.



SCALE CHANGE 2k 4k 6k 8k 10k

DTG 6825 U

CG 847 U

CG 548 U

WOB 35
RPM 52
PP 2273
SPM 130
FLOW LINE

WT IN 13.2+
WT OUT 12.8
VIS 52/52

MD 14646.00'
TVD 14644.46'
INC 2.57°
AZM 193.40°
VS -13.26°
DLS 1.20°

O.B. # 11
SIZE: 8.5"
MAKE: SMITH
TYPE: PDC
JETS: 6X16'S
S/N: JV3347
IN@ 14,311'
OUT@ 14,703'
DRLD: 392'
HRS: 27.15

BIT # 12
SIZE: 8.5"
MAKE: ULTERRA
TYPE: PDC
JETS: 6X15'S, 1X12'S
S/N: 51190
IN@ 14,703'

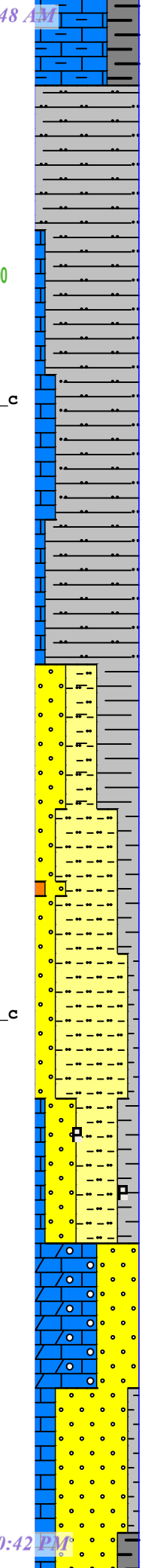
W 11/4/20
RPM 46
PP 2799
SPM 169
FLOW LINE

WT IN 12.6+
WT OUT 12.5
VIS 47/47

MD 14740.00'
TVD 14738.31'
INC 3.85°
AZM 186.63°
VS -7.89°
DLS 1.41°

O.B. # 12
SIZE: 8.5"
MAKE: ULTERRA
TYPE: PDC
JETS: 6X15'S, 1X12'S
S/N: 51190
IN@ 14,703'
OUT@ 14,708'
DRLD: 5'
HRS: 5.14

BIT # 13
MAKE: SMITH

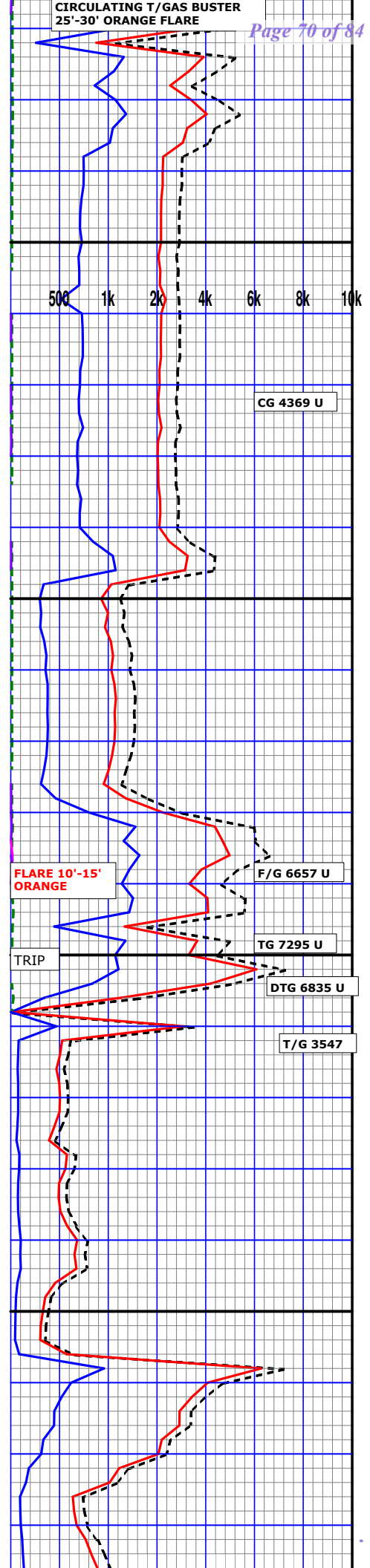


100% SH,
SH: MEDGRY TO GRY, PREDOM MECH
TO SUBBLKY, FRI - BRIT -SFT, SLTY
TO MED TXT, CALC IP, NO MIN
FLOUR,

90% SH, 10% LS,
SH: MEDGRY TO GRY, MECH TO
SUBBLKY, FRI - BRIT -SFT, SLTY
TO MED TXT, V/ CALC, NO MIN
FLOUR,

60% SI, 20% SH, 20% SS
SI: GRYISH BLK-DRKGRY, MOTT,
FRM - SL HRD, MOD CONSOL, VFN -
FN GRN, MECH - SUBANG, CALC
CMNT, WL SRT, TR CHERT, NO MIN
FLUOR

60% LS, 40% SS,
LS: GRNSTN TO CRPTXLN, DRKGRY-
GRY, BLKY TO SUBBLKY, SMTH TO
ROUGH TXT, OOLC, SCAT PYRTC
SPECKS & NODS, NO MIN FLOUR.



CIRCULATING T/GAS BUSTER
25'-30' ORANGE FLARE

500 1k 2k 4k 6k 8k 10k

CG 4369 U

FLARE 10'-15'
ORANGE

F/G 6657 U

TG 7295 U

TRIP

DTG 6835 U

T/G 3547

WOB 22
 RPM 39
 PP 2150
 SPM 171
 FLOW LINE

WT IN 12.7
 WT OUT 12.7
 VIS 45/45

MD 14834.00
 TVD 14832.12
 INC 3.36°
 AZM 190.28°
 VS -24.29°
 DLS 0.58°

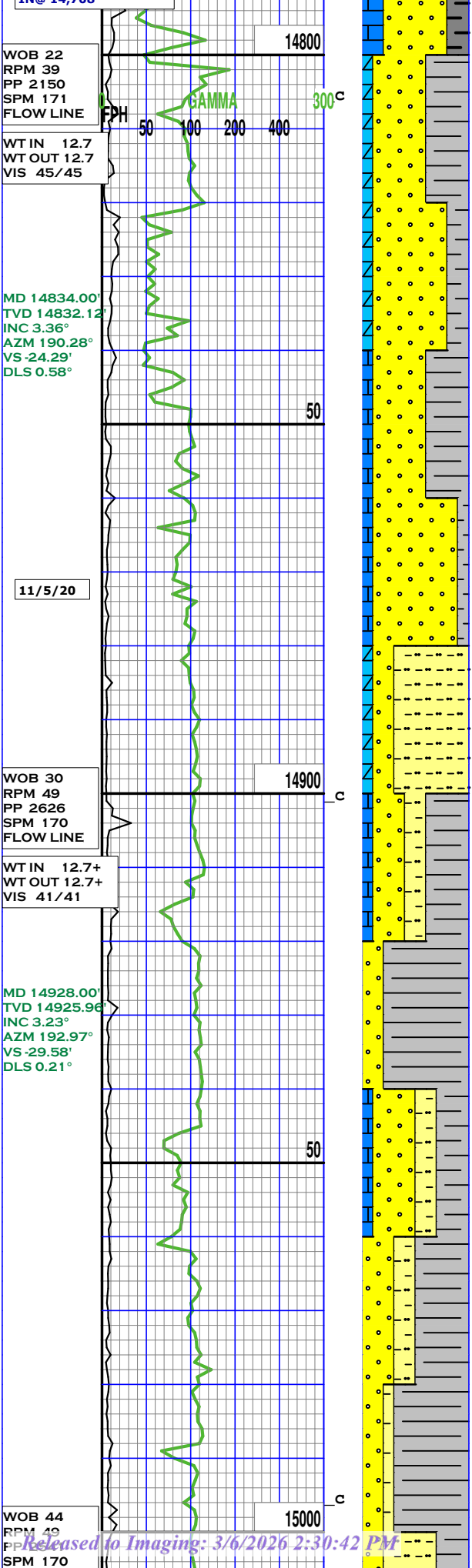
11/5/20

WOB 30
 RPM 49
 PP 2626
 SPM 170
 FLOW LINE

WT IN 12.7+
 WT OUT 12.7+
 VIS 41/41

MD 14928.00
 TVD 14925.96
 INC 3.23°
 AZM 192.97°
 VS -29.58°
 DLS 0.21°

WOB 44
 RPM 49
 PP 2626
 SPM 170
 FLOW LINE



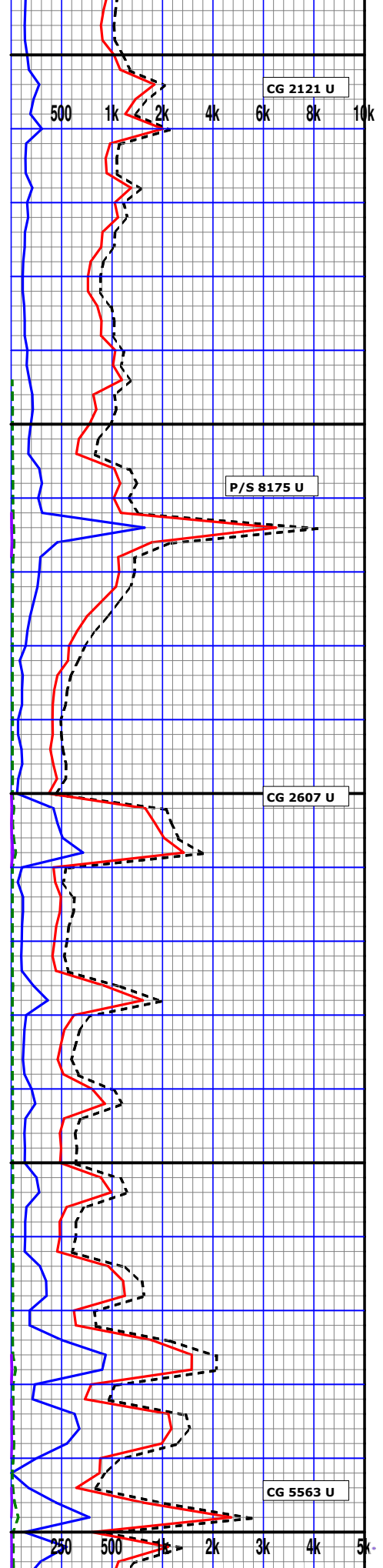
60% SS, 20% SH, 20% LS,
 SS: TRANSL- LTGRY-OFFWHT, FRI -
 FRM SME V FRM, WL CONSOL, MED -
 CRS GRN, SUBANG - SUBRND, SCAT
 CALC CMNT, MOD SRT, NO MIN
 FLUOR

50% SS, 40% SH, 10% LS,
 SS: LTGRY-OFFWHT, FRI - FRM SME
 V FRM, WL CONSOL, MED - CRS
 GRN, SUBANG - SUBRND, SCAT CALC
 CMNT, MOD SRT, NO MIN FLUOR

70% SI, 20% SS, 10% DOL,
 SI: GRY- MEDGRY, FRI - BRIT- SFT,
 MOD CONSOL, VFN - FN GRN, MECH
 - SUBANG, CALC IP, WL SRT, SCAT
 MICRO MICA, NO MIN FLUOR

40% SS, 30% SH, 20% SI, 10% LS,
 SS: OFFWHT- LTGRY-SCAT TRANSL,
 FRI - FRM OCC V/FRM, MOD CON
 SOL, MED - CRS GRN, SUBANG -
 SUBRND, SCAT CALC CMNT, MOD
 SRT, NO MIN FLUOR

50% SI, 20% SS, 30% SH,
 SI: DRKGRY- MEDGRY, FRI - VFRM -
 SL HRD, WL-MOD CONSOL, VFN - FN



MD 15027.00'
TVD 15024.81'
INC 2.99°
AZM 196.64°
VS -34.77°
DLS 0.31°

O.B # 13
SIZE: 8.5"
MAKE: SMITH
TYPE: PDC
JETS:4X18'S,4X14'S
S/N: JP847
IN@ 14,703'
OUT@ 15,069'
DRLD: 361'
HRS: 49.15

BIT # 14
SIZE: 8.5"
MAKE: SMITH
TYPE: PDC
JETS:6X14'S
S/N: JV3021
IN@ 15,069'

11/7-8/20

WOB 17
RPM 41
PP 2866
SPM 189
FLOW LINE

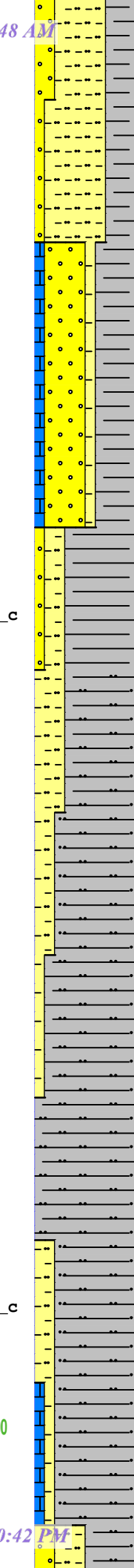
WT IN 12.7+
WT OUT 12.7+
VIS 41/41

MD 15121.00'
TVD 15118.69'
INC 2.72°
AZM 199.48°
VS -39.23°
DLS 0.33°

WOB 5.2
RPM 40
PP 2715
SPM 189
FLOW LINE

WT IN 12.7+
WT OUT 12.7+
VIS 41/41

MD 15215.00'
TVD 15212.59'
INC 2.50°
AZM 203.27°
VS -32.11°
DLS 0.30°

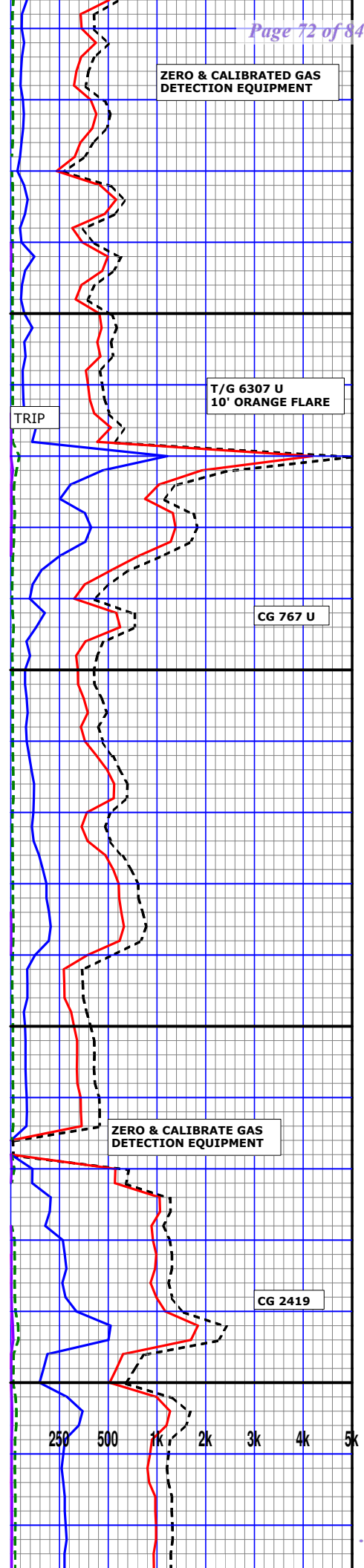


60% SS, 20% SH, 20% LS,
SS: OFFWHT- LTGRY- CRM TO SCAT
TRANSL, FRM - V FRM, WL CONSOL,
FN - V/FN TO MED GRN, SUBANG -
SUBRND, SCAT CALC CMNT, MOD
SRT, NO MIN FLUOR

20% SI, 10% SS, 70% SH,
SI: DRKGRY- MEDGRY, FRI - SFT,
WL-MOD CONSOL, VFN GRN, MECH -
SUBANG, CALC IP, WL SRT, NO MIN
FLUOR

90% SH, 10% SI,
SH: MEDGRY - GRY, MECH -SUBBLKY,
FRI - BRIT -SFT, V SLTY - MED TXT,
CALC, NO MIN FLOUR

80% SH, 20% SI,
SH: LT-MGRY - GRY, MECH -SUBBLKY,
FRI - SFT, V SLTY - MED TXT, CALC,
NO MIN FLOUR



ZERO & CALIBRATED GAS
DETECTION EQUIPMENT

T/G 6307 U
10' ORANGE FLARE

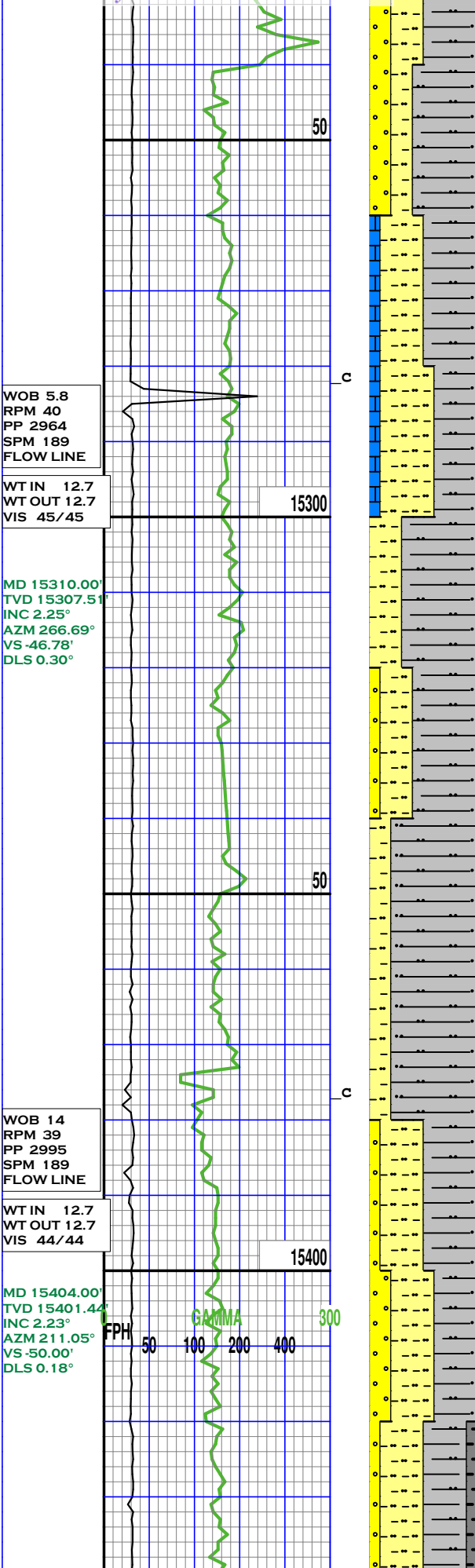
TRIP

CG 767 U

ZERO & CALIBRATE GAS
DETECTION EQUIPMENT

CG 2419

250 500 1k 2k 3k 4k 5k

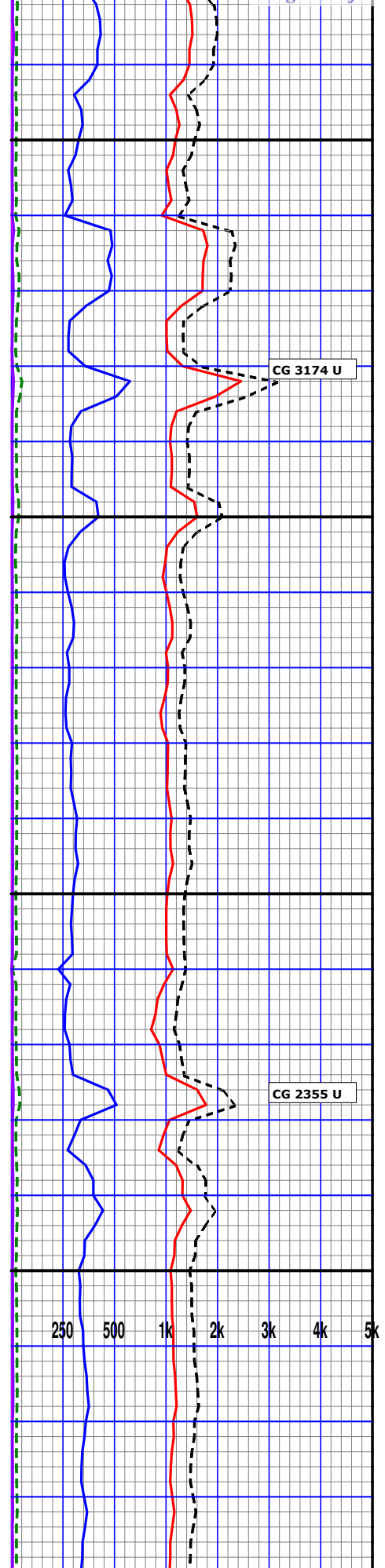


60% SH, 20% SS, 20% SI,
SH: LTGRY- MGRY - GRY, MECH -
SUBBLKY, FRI - SFT, V SLTY - MED
TXT, CALC IP, NO MIN FLOUR

50% SI, 40% SH, 10% LS,
SI: GRY- MEDGRY- SCAT OFFWHT,
FRI - SFT, WL-MOD CONSOL, VFN
GRN, MECH - SUBANG, CALC IP, WL
SRT, NO MIN FLUOR

80% SH, 20% SI,
SH: LTGRY- MGRY - GRY, MECH -
SUBBLKY, PREDOM FRI - SFT, V
SLTY - MED TXT, CALC IP, NO MIN
FLOUR.

40% SI, 40% SH, 20% SS,
SI: GRY- MEDGRY, FRI - SFT, WL-
MOD CONSOL, VFN GRN, MECH -
SUBANG, CALC IP, WL SRT, NO MIN
FLUOR



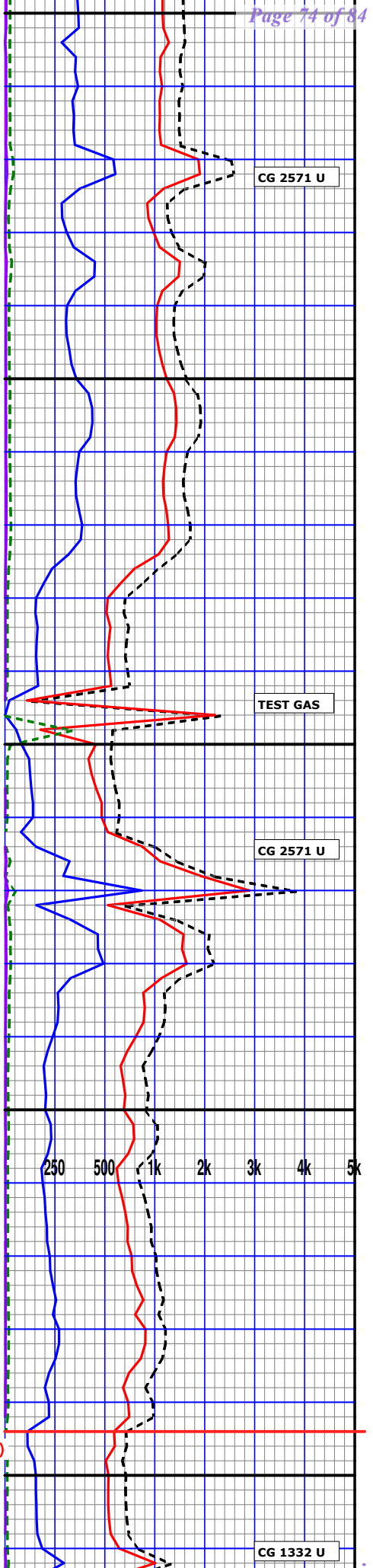
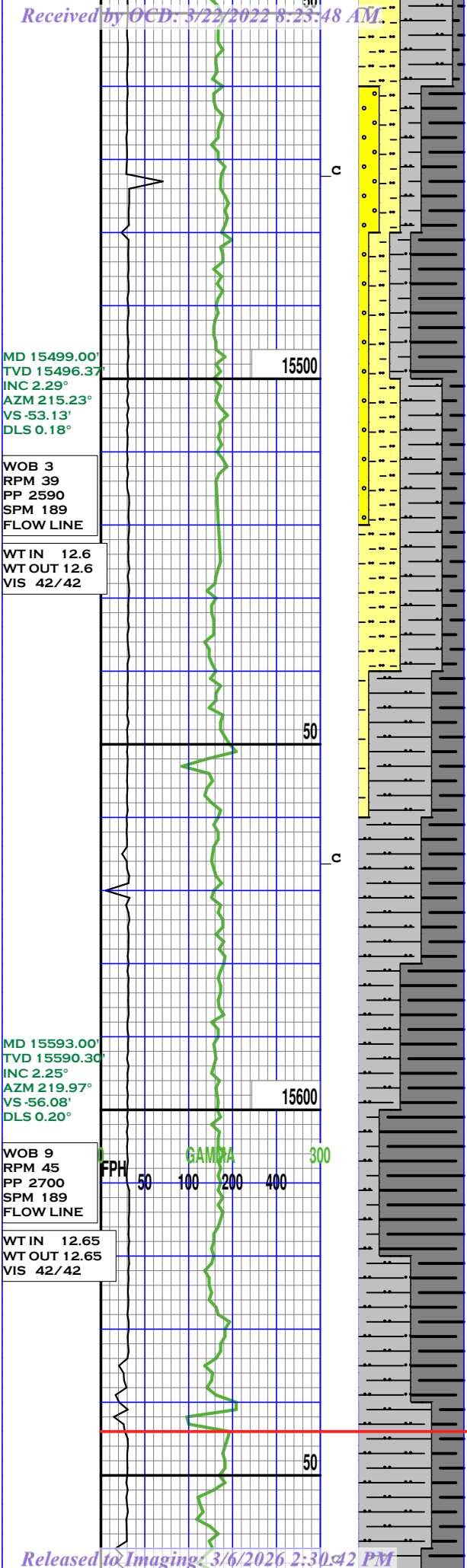
60% SH, 40% SI,
SH: LTGRY- MGRY- OCC V/DRKGRY,
MECH- SUBBLKY, FRI - SFT, VSLTY -
MED TXT, CALC IP, NO MIN FLOUR.

70% SH, 20% SI, 10% SS,
SH: DRKGRY- V/DRKGRY- GRY, SUB
RND TO MECH- SUBBLKY, FRI - SFT,
VSLTY - MED TXT, SCAT PYRTIC
SPECS, CALC IP, NO MIN FLOUR.

90% SH, 10% SI,
SH: PREDOM GRY- MGRY - DRKGRY,
MECH -SUBBLKY, PREDOM FRI - SFT,
V SLTY - MED TXT, CALC IP, NO MIN
FLOUR.

100% SH
SH: PREDOM MGRY - DRKGRY, MECH
-SUBBLKY, PREDOM FRI - SFT, V
SLTY - MED TXT, CALC IP, NO MIN
FLOUR.

BARNETT SHALE 15644' MD
15641.26' TVD (-12355.26' SS)
100% SH
SH: PRED MGRY - DRKGRY SCAT BLK,
MECH -SUBBLKY, PREDOM FRI - SFT,
V SLTY - MED TXT, CALC IP, NO MIN
FLOUR.



11/9/20

MD 15689.00'
TVD 15686.23'
INC 2.21°
AZM 225.29°
VS -58.83'
DLS 0.22°

15700

WOB 6
RPM 40
PP 2854
SPM 189
FLOW LINE

WT IN 12.65
WT OUT 12.65
VIS 42/42

50

c

MD 15783.00'
TVD 15780.16'
INC 2.34°
AZM 226.31°
VS -61.43'
DLS 0.14°

15800

WOB 5.8
RPM 49
PP 2923
SPM 189
FLOW LINE

WT IN 12.65
WT OUT 12.65
VIS 42/42

EDN GAMMA 300
50 100 200 400

50

c

MD 15877.00'
TVD 15874.07'
INC 2.54°
AZM 226.93°
VS -64.18'
DLS 0.21°

100% SH
SH: PRED MGRY - DRKGRY - BLK,
MECH -SUBBLKY, PRED FRI - V SFT,
V SLTY - VFN TXT, CALC IP, NO MIN
FLOUR.

100% SH
SH: PRED MGRY - DRKGRY - BLK,
MECH -SUBBLKY, FRI - SFT TR SL
FRM, V SLTY - VFN TXT, CARB, CALC
IP, NO MIN FLOUR.

100% SH
SH: PRED DRKGRY - BLK, MECH -
SUBBLKY, FRI - SFT TR SL FRM, V
SLTY - VFN TXT, CARB, CALC IP, NO
MIN FLOUR.

100% SH
SH: DRKGRY - BLK- OCC MEDGRY,
MECH -SUBBLKY, FRI - SFT TR SL
FRM, V SLTY - VFN TXT, CARB, CALC
IP, NO MIN FLOUR.

ZERO & CALIBRATE GAS
DETECTION EQUIPMENT

CG 1603 U

CG 3156 U

250 500 1k 2k 3k 4k 5k

100% SH
SH: V/DRKGRY - BLK, MECH -SUB
BLKY- PLTY, FRI - SFT- SL FRM, V
SLTY - VFN - WXY TXT, V CARB, NO
MIN FLOUR.

WOB 11
RPM 48
PP 2996
SPM 189
FLOW LINE

WT IN 12.7
WT OUT 12.7
VIS 44/44

O.B. # 14
SIZE: 8.5"
MAKE: SMITH
TYPE: PDC
JETS:6X14'S
S/N: JV3021
IN@ 15,069'
OUT@ 16,029'
DRLD: 960'
HRS: 34.72

MD 15972.00'
TVD 15968.97'
INC 2.61°
AZM 232.83°
VS -66.92'
DLS 0.29°

WOB 13
RPM 46
PP 2789
SPM 189
FLOW LINE

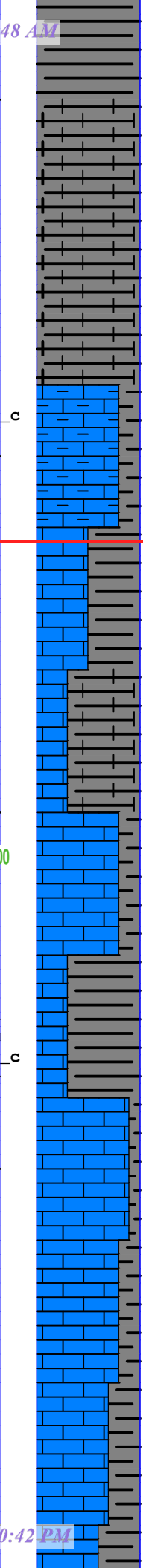
WT IN 12.6+
WT OUT 12.6+
VIS 46/46

BIT # 15
SIZE: 8.5"
MAKE: HALLIBURTON
TYPE: PDC
JETS:7X13'S
S/N: 13337146
IN@ 16,029'

11/11/20

MD 16066.00'
TVD 16062.88'
INC 2.43°
AZM 228.37°
VS -69.54'
DLS 0.28°

WOB 23
RPM 50
PP 2789
SPM 183
FLOW LINE



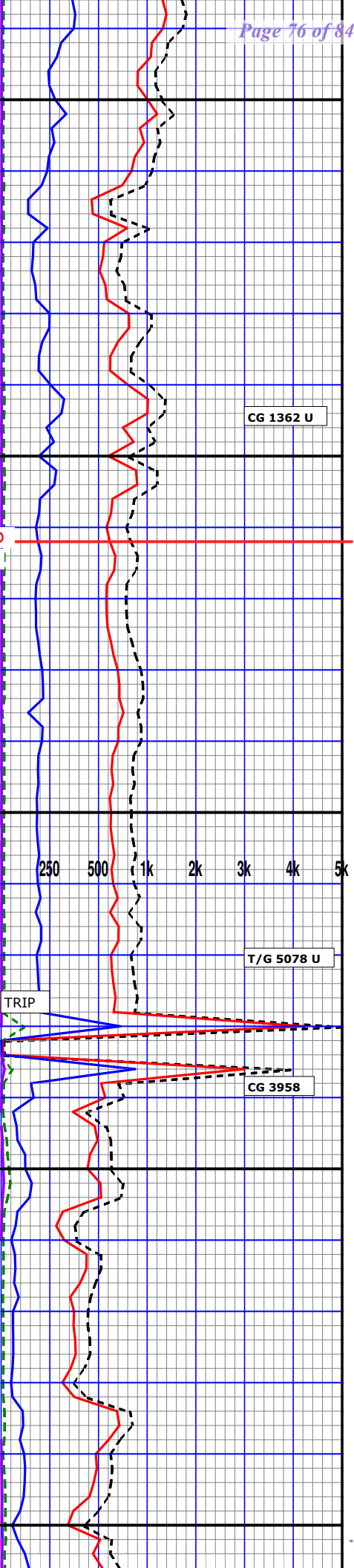
80% LS, 20% SH,
LS: WKSTN TO GRNSTN, MOTT- GRY-
DRKGRY, BLKY TO SUBBLKY -MECH,
FRM- HRD- FRI, MED TO FN TXT, NO
MIN FLOUR.

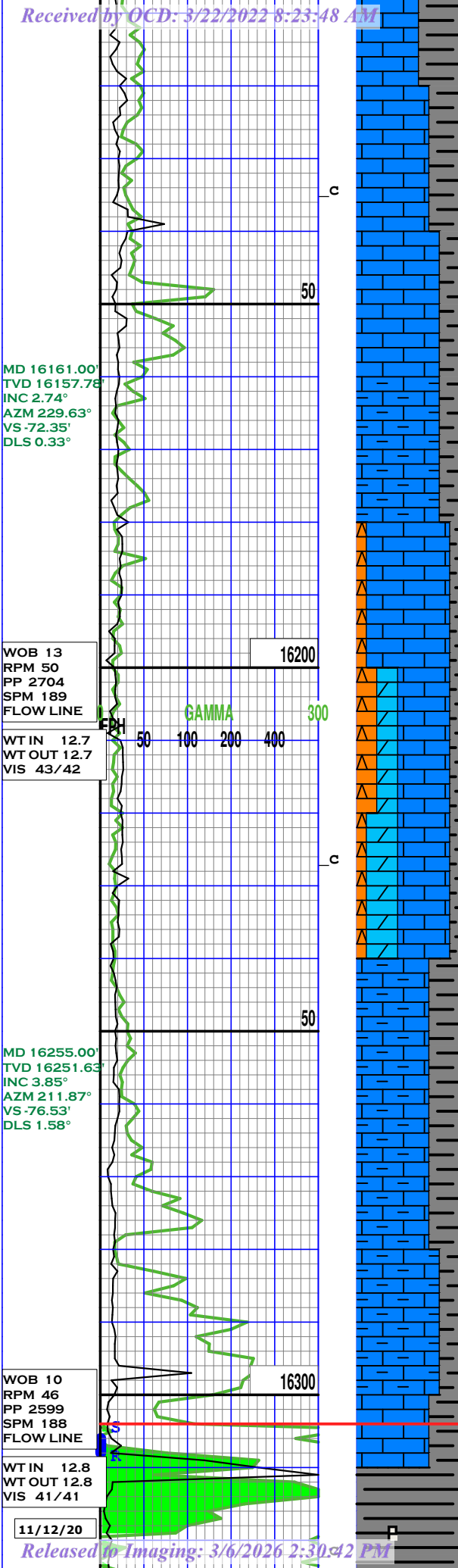
MISSISSIPPIAN LIME 15962' MD
15958.98' TVD (-12672.98' SS)

30% LS, 70% SH,
LS: WKSTN - PKSTN, MOTT- GRY-
DRKGRY, BLKY SME SUBBLKY -MECH,
FRM- HRD- FRI, MED - FN TXT, NO
MIN FLOUR.

90% LS, 10% SH,
LS: WKSTN - OCC PKSTN, MOTT-
OFFWHT- GRY- DRKGRY, BLKY SME
SUBBLKY -MECH, FRM- HRD- FRI,
MED - FN TXT, NO MIN FLOUR.

70% LS, 30% SH,
LS: WKSTN, MOTT- OFFWHT- GRY-
DRKGRY, BLKY SME SUBBLKY- MECH,





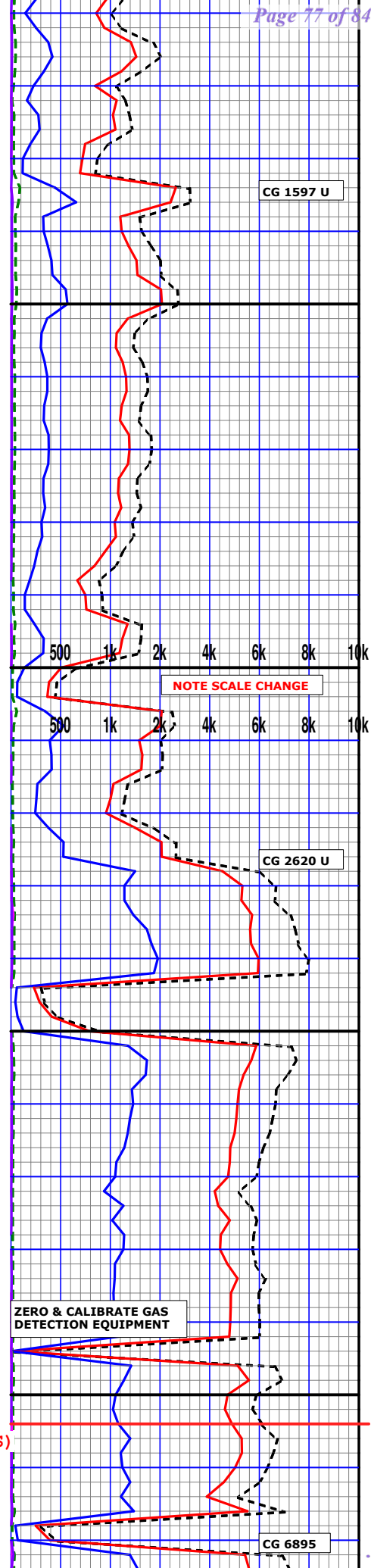
30% LS, 70% SH,
LS: WKSTN, MOTT- OFFWHT- MED
GRY- DRKGRY, BLKY SME SUBBLKY-
MECH, FRM- HRD- FRI, MED - FN TXT,
NO MIN FLOUR.

80% LS, 10% SH, 10% CHT
LS: WKSTN, MOTT- OFFWHT- MED
GRY, BLKY SME SUBBLKY- MECH,
FRM- HRD- FRI, MED - FN TXT, NO
MIN FLOUR.

70% LS, 30% SH,
LS: WKSTN, MOTT- OFFWHT- MED
GRY, BLKY SME SUBBLKY, FRM- HRD-
FRI, MED - FN TXT, NO MIN FLOUR.

80% LS, 20% SH,
LS: WKSTN, MOTT- OFFWHT- M-LT
GRY, BLKY SCAT SUBBLKY, PRED
FRM- HRD OCC FRI, MED - FN TXT,
NO MIN FLOUR.

WOODFORD SHALE 16304' MD
16300.50' TVD (-13014.50' SS)



MD 16349.00'
TVD 16345.38'
INC 4.47°
AZM 215.05°
VS -82.21'
DLS 0.70°

WOB 13
RPM 37
PP 2402
SPM 174
FLOW LINE

WT IN 12.7+
WT OUT 12.7+
VIS 41/40

MD 16402.00'
TVD 16398.22'
INC 4.32°
AZM 214.94°
VS -85.54'
DLS 0.28°

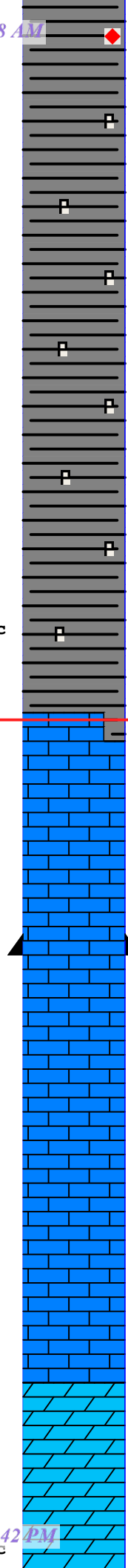
O.B. # 15
SIZE: 8.5"
MAKE: HALLIB
TYPE: PDC
JETS: 7X13'S
S/N: 13337146
IN@ 16,029'
OUT@ 16,470'
DRLD: 441'
HRS: 26.28

BIT # 16
SIZE: 6"
MAKE: SMITH
TYPE: PDC
JETS: 3X14'S, 3X10'S
S/N: JV0895
IN@ 16,470'

MD 16489.00'
TVD 16484.96'
INC 4.64°
AZM 226.88°
VS -90.63'
DLS 1.13°

WOB 12
RPM 29
PP 2129
SPM 103
FLOW LINE

WT IN 8.9+
WT OUT 8.8+
VIS 27/27

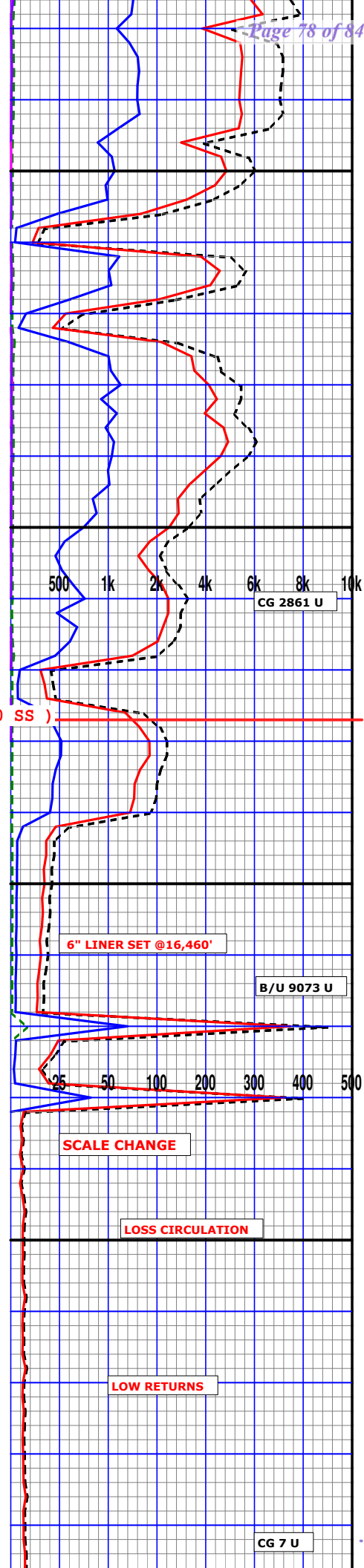


100% SH
SH: V/DRKGRY - BLK, MECH -SUB
BLKY, FRI - SFT- FRM, SLTY - VFN
TXT, V CARB, NO MIN FLOUR.

100% SH
SH: V/DRKGRY - DRKGRY- BLK, SUB
BLKY TO BLKY TO SUBRND, FRI - SFT-
FRM, SLTY - VFN TXT, V CARB, ABND
PYRTIC SPECS, NO MIN FLOUR.

100% LS,
LS: MUDSTN, WHT- OCC MOTT LT
GRY, BLKY TO SUBBLKY TO MECH,
FRI- BRITT, V/FN TO CRPXLN, NO
MIN FLOUR.

100% LS,
LS: XLNCARB, WHT, BLKY TO SUB
BLKY TO MECH, FRI- BRITT, V/FN TO
CRPXLN, NO MIN FLOUR. NO CUT,



DEVONIAN 16427 MD (-13141.00 SS)

6" LINER SET @16,460'

6" LINER SET @16,460'

SCALE CHANGE

LOSS CIRCULATION

LOW RETURNS

MD 16583.00'
TVD 16578.62'
INC 5.12°
AZM 226.90°
VS -96.09'
DLS 0.51°

WOB 11
RPM 30
PP 1948
SPM 103
FLOW LINE

WT IN 8.9
WT OUT 8.9
VIS 27/27

MD 16678.00'
TVD 16673.27'
INC 4.78°
AZM 239.60°
VS -100.41'
DLS 0.77°

WOB 9
RPM 31
PP 1143
SPM 74
FLOW LINE

WT IN 8.9
WT OUT 8.9
VIS 27/27

100% DOL,
DOL: WHT- OPAQ- TRANSL, SUB
BLKY -BLKY, FRM - BRIT, PRED
MED - FN XLN, NO MIN FLOUR,
NO CUT, NO O FLOUR,

100% DOL,
DOL: PREDOM WHT- OPAQ TR
TRANSL, SUBBLKY -BLKY, FRM OCC
BRIT, PRED FN - VFN XLN, NO MIN
FLOUR, NO CUT, NO O FLOUR,

100% DOL,
DOL: WHT- OPAQ SCAT TRANSL,
SUBBLKY -BLKY, FRM SME BRIT,
PRED FN - VFN XLN, NO MIN FLOUR,
NO CUT, NO O FLOUR,

100% DOL,
DOL: WHT- OPAQ SCAT CLR-
TRANSL, MSTLY SUBBLKY -BLKY, FRM
SME BRIT, PRED FN - VFN XLN, NO
MIN FLOUR, NO CUT, NO O FLOUR,

100% DOL
DOL: WHT- TRANSL, SUBBLKY -
BLKY, FRM OCC BRIT, PRED MED -
FN XLN, NO MIN FLOUR, NO CUT,
NO O FLOUR

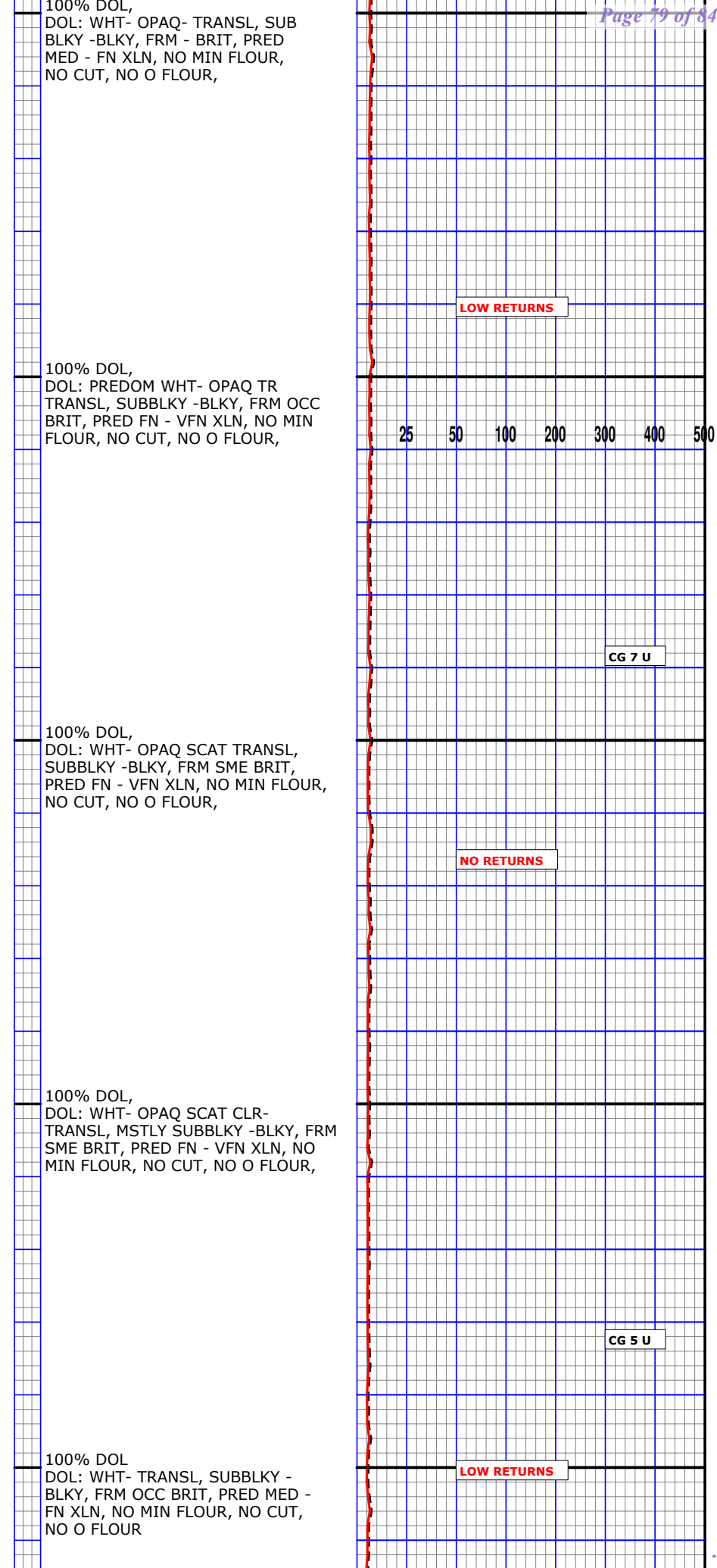
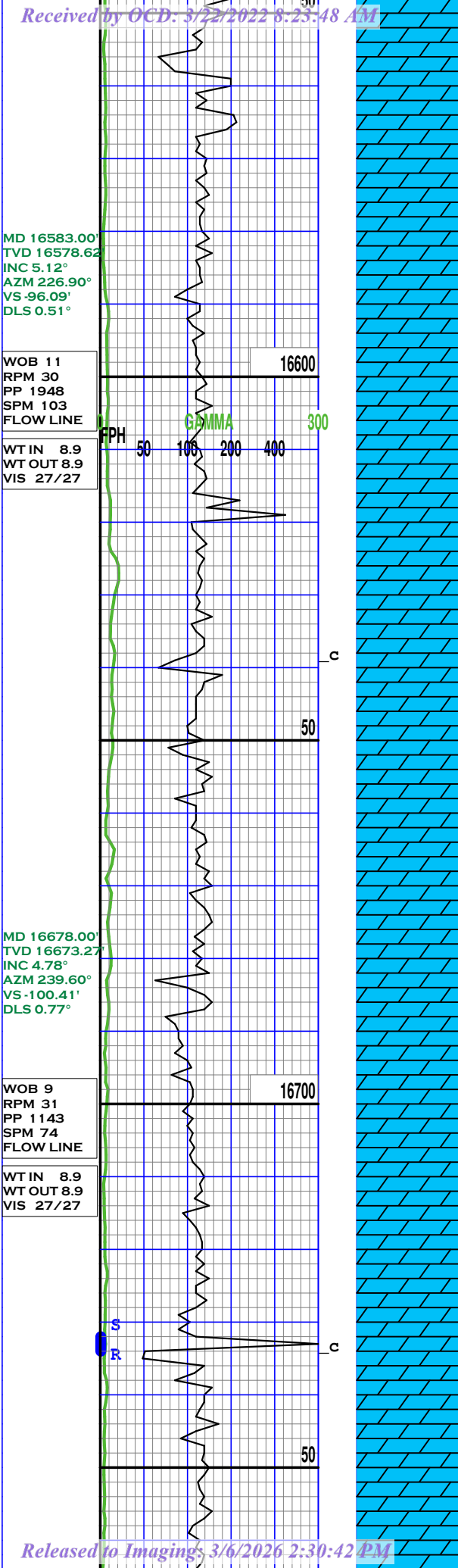
LOW RETURNS

CG 7 U

NO RETURNS

CG 5 U

LOW RETURNS



MD 16767.91
TVD 16767.91
INC 5.17°
AZM 254.12°
VS -103.60'
DLS 1.37°

WOB 14
RPM 28
PP 1297
SPM 72
FLOW LINE
16800
FPH 50
GAMMA 300

WT IN 8.8
WT OUT 8.8
VIS 27/27

MD 16868.00
TVD 16862.53
INC 5.05°
AZM 257.51°
VS -105.67'
DLS 0.34°

WOB 13
RPM 29
PP 1244
SPM 72
FLOW LINE
16900

WT IN 8.8
WT OUT 8.8
VIS 27/27

MD 16962.00
TVD 16956.14
INC 5.38°
AZM 252.17°
VS -107.92'
DLS 0.62°

100% DOL
DOL: WHT SCAT TRANSL, SUBBLKY -
BLKY, FRM - BRIT, PRED MED -FN
XLN, NO MIN FLOUR, NO CUT, NO O
FLOUR

100% DOL
DOL: OF WHT-WHT SCAT TRANSL,
SUBBLKY -BLKY, FRM - BRIT, PRED
MED -FN XLN, NO MIN FLOUR, NO
CUT, NO O FLOUR

100% DOL
DOL: WHT- OPAQ- TRANSL, SUB
BLKY -BLKY, FRM - BRIT, PRED
MED SME FN XLN, NO MIN FLOUR,
NO CUT, NO O FLOUR

SILURIAN LIME 16904' MD
16898.38' TVD (-13612.38' SS)

70% LS, 30% DOL
LS: TN- OFFWHT SCAT LTGRY,
SUBBLK - BLKY -SUBRND, MED FRM -
HRD, PRED MED - FN XLN, NO MIN
FLOUR, NO CUT, NO O FLOUR,

NORMAL RETURNS

CG 180 U

CG 45 U

SCALE CHANGE

WOB 15
RPM 45
PP 1502
SPM 72
FLOW LINE

17000

WT IN 8.7
WT OUT 8.7
VIS 27/27

O.B. # 16
SIZE: 6"
MAKE: SMITH
TYPE: PDC
JETS: 3X14'S, 3X10'S
S/N: JV0895
IN@ 16,470'
OUT@ 17,074'
DRLD: 604'
HRS: 12.7

11/20-21/20

50

MD 17056.00'
TVD 17049.71'
INC 5.56°
AZM 255.05°
VS -110.44'
DLS 0.35°

BIT # 17
SIZE: 6"
MAKE: ULTERRA
TYPE: PDC
JETS: 6X14'S
S/N: 43257
IN@ 17,074'

WOB 19
RPM 39
PP 1991
SPM 98
FLOW LINE

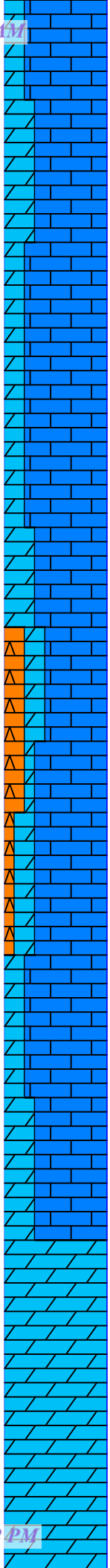
17100

WT IN 8.7+
WT OUT 8.8
VIS 27/27

MD 17151.00'
TVD 17144.29'
INC 5.26°
AZM 253.80°
VS -112.88'
DLS 0.34°

WOB 19
RPM 40
PP 1991
SPM 98
FLOW LINE

17200



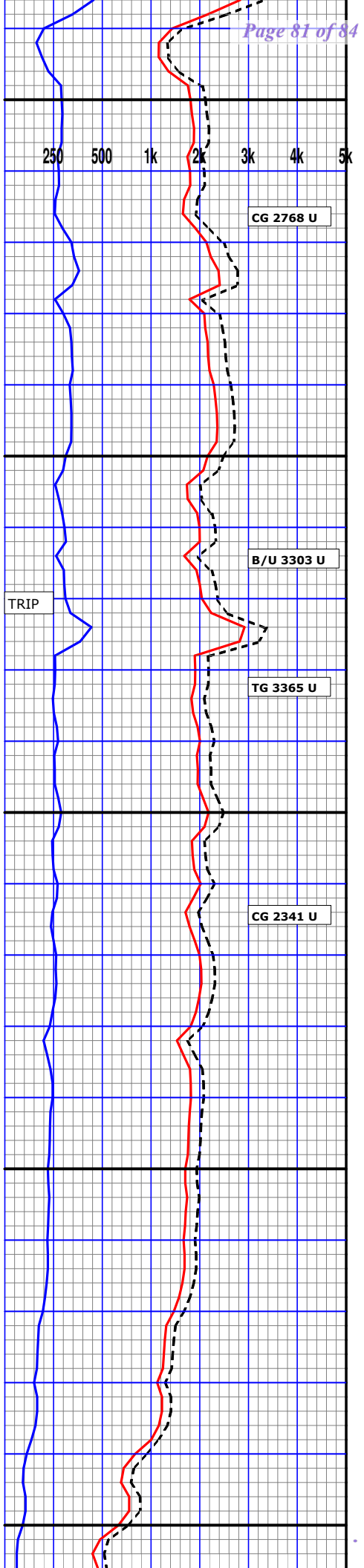
80% LS, 20% DOL
LS: TN- OFF WHT SCAT LTGRY, PRED
SUBBLKY - BLKY -SUBRND, MED FRM
- HRD, MED - FN XLN, NO MIN
FLOUR, NO CUT, NO O FLOUR,

80% LS, 20% DOL
LS: TN- OFFWHT SCAT LT-M GRY,
SUBBLK - BLKY -SUBRND, MED FRM -
HRD, PRED VFN -FN XLN, NO MIN
FLOUR, NO CUT, NO O FLOUR

70% LS, 20% CH, 10% DOL,
LS: WHT- OFFWHT- LT-M GRY, SUB
BLK - BLKY -SUBRND, MED FRM -
HRD, PRED VFN -FN XLN, NO MIN
FLOUR, NO CUT, NO O FLOUR

70% LS, 30% DOL,
LS: WHT- OFFWHT, SUBBLK - BLKY
-SUBRND, MED FRM - HRD, PRED
VFN -FN XLN, NO MIN FLOUR, NO
CUT, NO O FLOUR

100% DOL,
DOL: WHT- TRANSL TR OFFWHT,
SUBBLKY -BLKY, FRM OCC BRIT,



FUSSELMAN 17226' MD
17218.97' TVD (-13932.97' SS)

MD 17245.00'
TVD 17237.89'
INC 5.29°
AZM 249.58°
VS-115.59'
DLS 0.41°

100% DOL,
DOL: XLNCARB, WHT- TRANSL- TR
OFFWHT, SUBBLKY -BLKY, FRM TO
HRD TO OCC BRIT, PRED MED TO FN
XLN, NO MIN FLOUR, NO CUT, NO O
FLOUR,

WOB 11
RPM 44
PP 1833
SPM 98
FLOW LINE

17300 c

100% DOL,
DOL: XLNCARB, WHT- OFFWHT,
SUBBLKY -BLKY, FRM TO HRD TO
OCC BRIT, PRED MED TO FN XLN,
NO MIN FLOUR, NO CUT, NO O
FLOUR,

CG 800 U

WT IN 8.7
WT OUT 8.6+
VIS 27/27

MD 17340.00'
TVD 17332.52'
INC 4.84°
AZM 256.12°
VS-118.08'
DLS 0.77°

100% DOL,
DOL: XLNCARB, WHT- OFFWHT-
OCC TRANSL, SUBBLKY -BLKY, FRM
TO HRD TO OCC BRIT, PRED MED
TO FN XLN, NO MIN FLOUR, NO
CUT, NO O FLOUR,

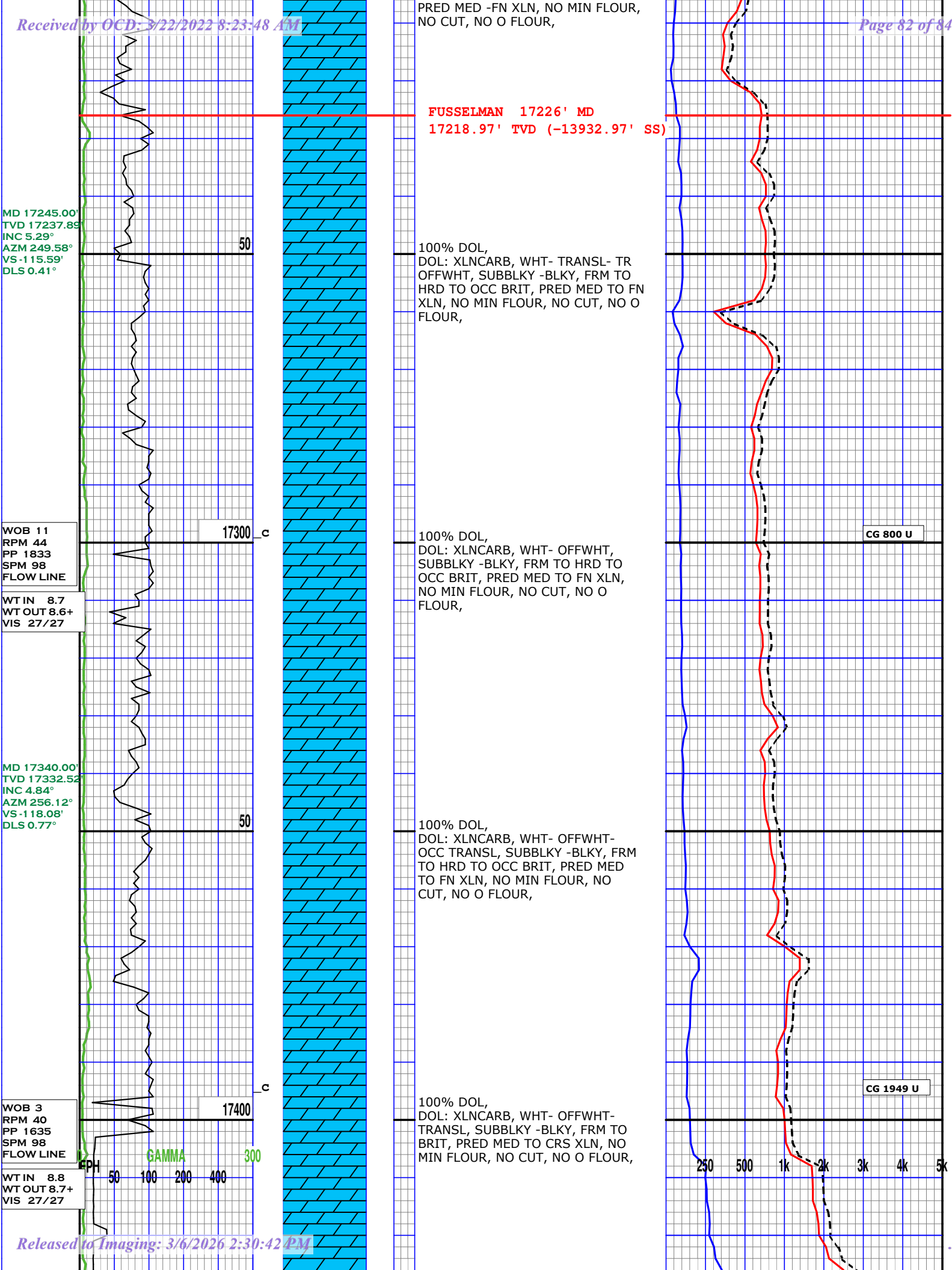
WOB 3
RPM 40
PP 1635
SPM 98
FLOW LINE

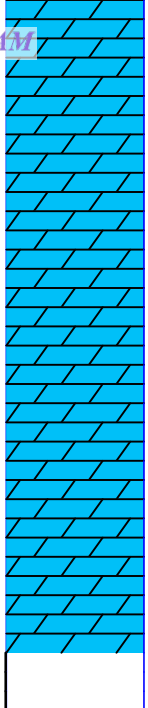
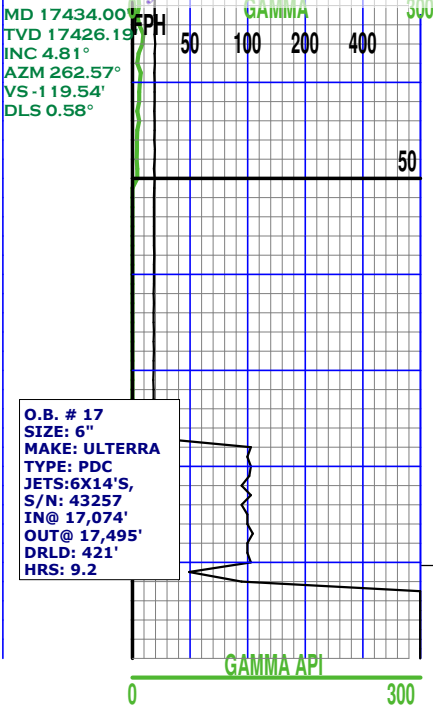
17400 c

100% DOL,
DOL: XLNCARB, WHT- OFFWHT-
TRANSL, SUBBLKY -BLKY, FRM TO
BRIT, PRED MED TO CRS XLN, NO
MIN FLOUR, NO CUT, NO O FLOUR,

CG 1949 U

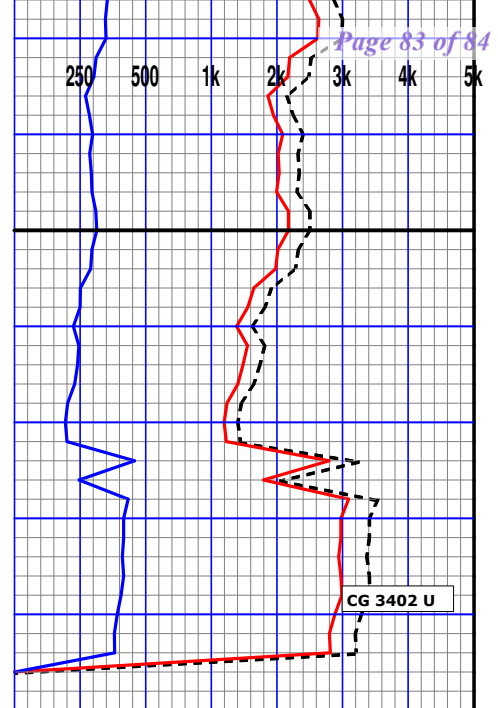
WT IN 8.8
WT OUT 8.7+
VIS 27/27





100% DOL,
 DOL: XLNCARB, WHT- OFFWHT-
 OCC TRANSL, SUBBLKY -BLKY, FRM
 TO BRIT, PRED MED TO CRS XLN,
 NO MIN FLOUR, NO CUT, NO O
 FLOUR,

TD REACHED @ 17,495' MD
 @ 15:50 11/21/2020



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 91895

CONDITIONS

Operator: XTO PERMIAN OPERATING LLC. 3617 Big Spring St. MIDLAND, TX 79705	OGRID: 373075
	Action Number: 91895
	Action Type: [C-103] Sub. General Sundry (C-103Z)

CONDITIONS

Created By	Condition	Condition Date
anthony.harris	None	3/6/2026