



Scale 1:240 (5"=100') Imperial

Well Name: CASTELLI EXPLORATION, INC. DUNN #1-24
Location: SECTION 24-T33S-R17W CAMANCHE CO, KANSAS
Licence Number: 15-033-21745-00-00 Region: USA
Spud Date: 01-24-2014 Drilling Completed: 01-29-2014
Surface Coordinates: 2130' FSL
585' FEL
Bottom Hole 2130' FSL
Coordinates: 585' FEL
Ground Elevation (ft): 1818' K.B. Elevation (ft): 1830'
Logged Interval (ft): 3900' To: 5701' Total Depth (ft): 5701'
Formation: MISSISSIPPIAN; SPERGEN
Type of Drilling Fluid: CHEMICAL

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: CASTELLI EXPLORATION, INC.
Address: 6908 NW 112th STREET
OKLAHOMA CITY, OKLAHOMA 73162

GEOLOGIST

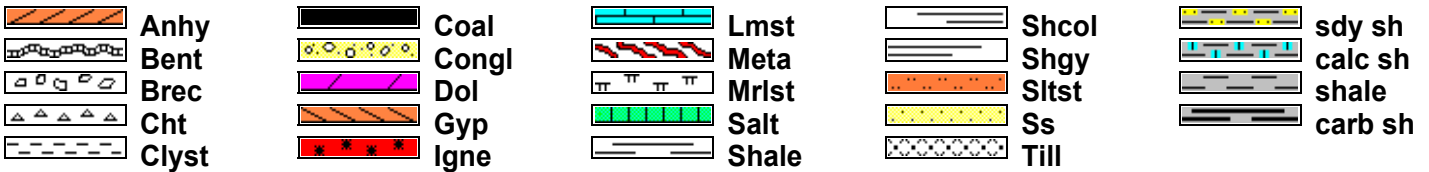
Name: CAMERON CASTELLI
Company: CASTELLI EXPLORATION, INC.
Address: 6908 NW 112th STREET
OKLAHOMA CITY, OKLAHOMA 73162

Comments

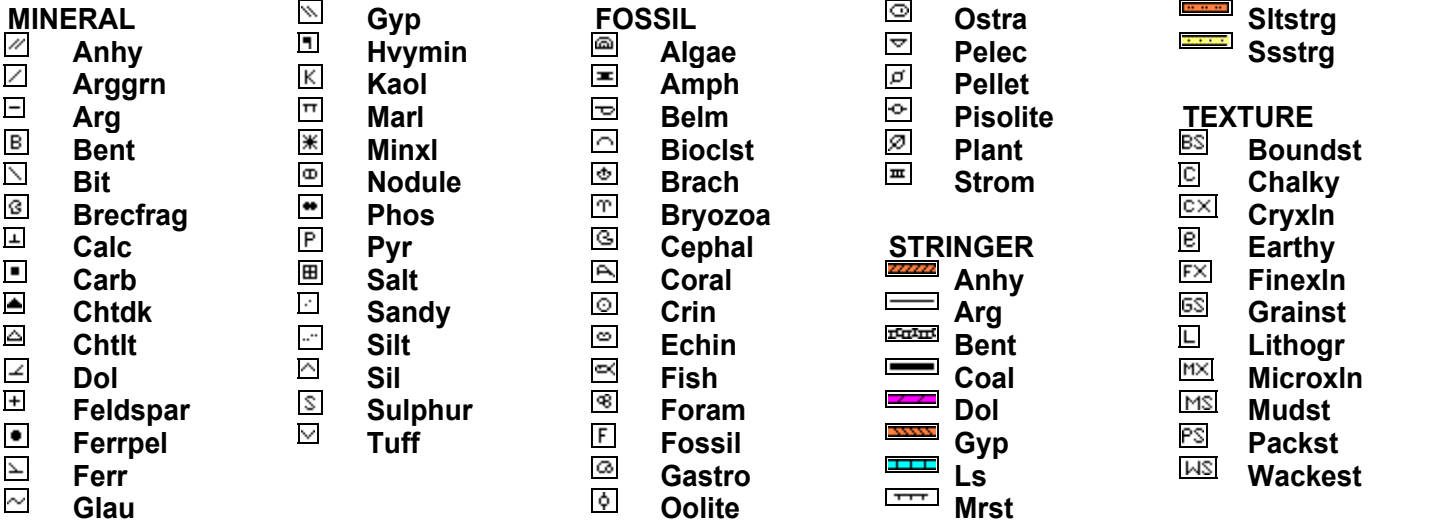
LOGGER: PERRY WALTERS
713-842-0117

DUKE DRILLING COMPANY
RIG #6
100 SOUTH MAIN
WICHITA, KANSAS 67202

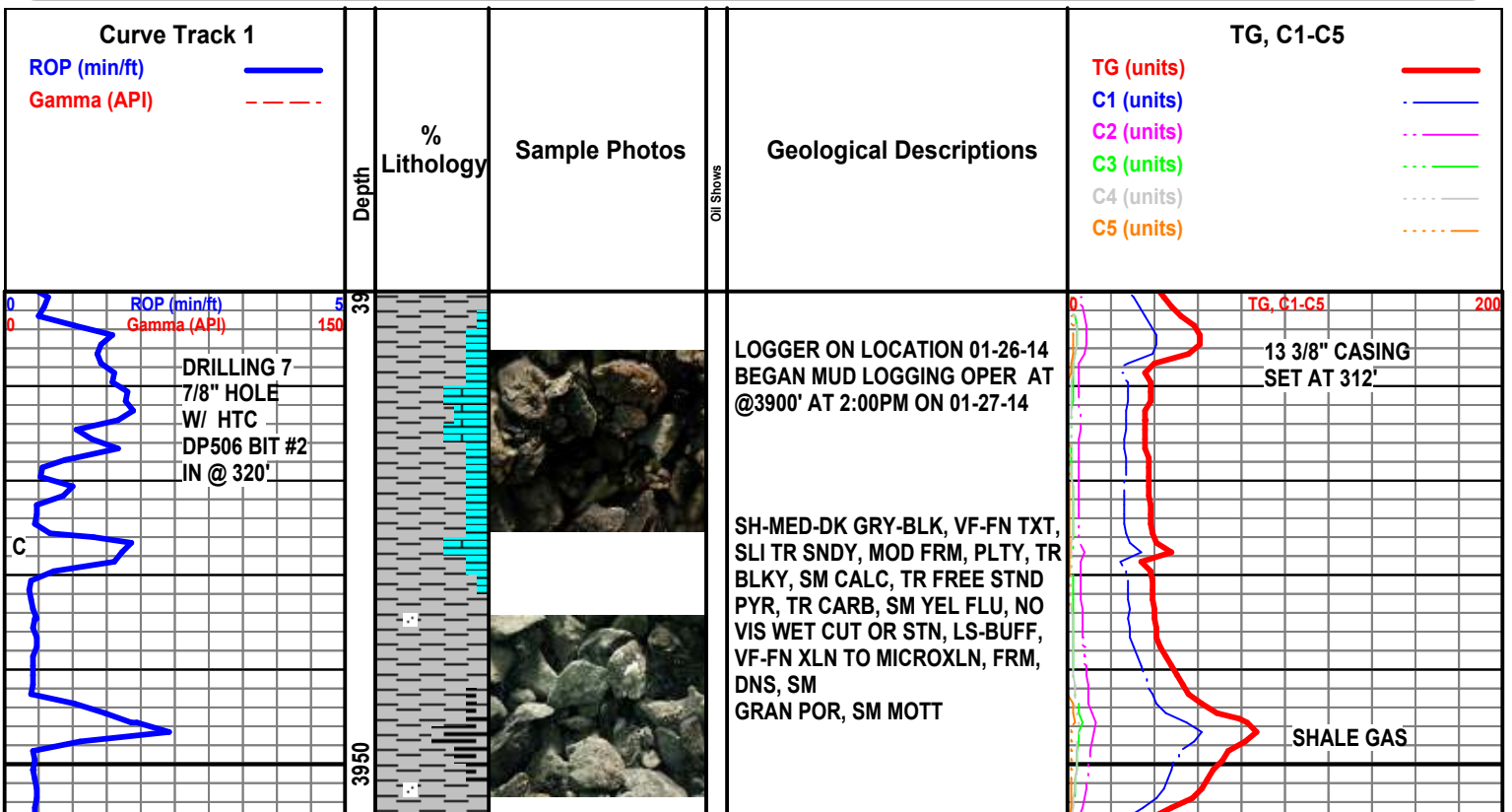
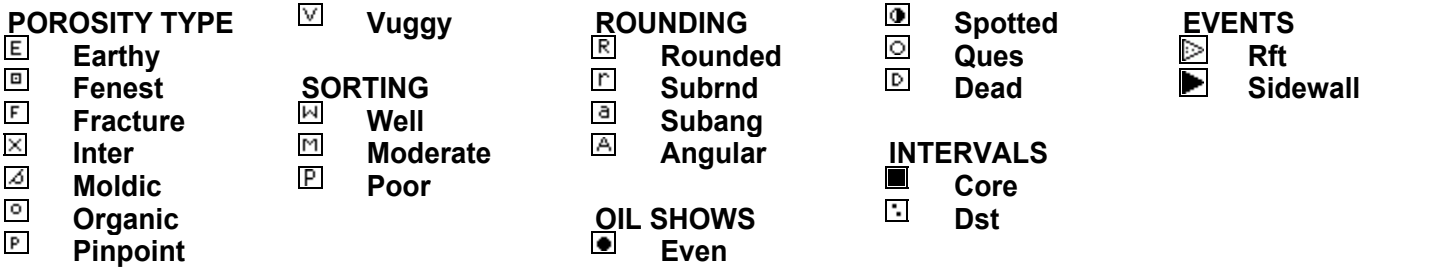
ROCK TYPES



ACCESSORIES



OTHER SYMBOLS



WOB: 16K
RPM: 70
PP: 1100
SPM: 60

ROP (min/ft)
Gamma (API)

4000

4050

4100

4150

HEEBNER
(4,120' (-2,290'))

WOB: 17-20K
RPM: 70-90
PP: 1200
SPM: 62



SH-MED-DK GRY-BLK, VF-FN TXT,
SNDY, MOD FRM, PLTY-
BLKY, SM CALC, TR FREE STND
PYR, TR CARB, SM YEL FLU IP, NO
VIS WET CUT OR STN, W/ SM
LS-BUFF, VF-FN XLN MICROXLN,
FRM, DNS, SMGRAN POR, SM
MOTT

SH-MED-DK GRY-BLK, VF-FN TXT,
SM SNDY, MOD FRM, PLTY, SM
BLKY, SM CALC, SM CARB, SCAT
YEL FLU, NO VIS WET CUT OR
STN, W/LS-BUFF, VF-FN XLN
MICROXLN, FRM, DNS-MOD DNS,
SM GRAN POR, SM MOT

SH-MED-DK GRY-BLK, VF-FN TXT,
TR SNDY, MOD FRM, PLTY, SM
BLKY, SM CALC, SM CARB, SM
YEL FLU IP, NO VIS WET CUT OR
STN, W/ SM LS-BUFF-OFF WHT,
VF-FN MICROXLN, FRM, DNS, SM
GRAN POR, SM MOTT

SH-MED-DK GRY, TR BLK, VF-FN
TXT, TR SNDY, MOD FRM, PLTY,
SM BLKY, SM CALC, TR FREE
STND PYR, SM CARB, SM YEL FLU
NO VIS WET CUT OR STN, W/ SM
SS-LT GRY-CRM, VF-FG,
RND-ANGL, CNLSTD, FRLY WELL
SRTD, TT, PP, W/ SM LS AAB

SH-MED-DK GRY-BLK, VF-FN TXT,
TR SNDY, MOD FRM, FRM, PLTY,
SM BLKY, SM CALC, SM CARB, SM
YEL FLU, NO VIS WET CUT OR
STN, W/ SM LS-BUFF, OFF WHT,
VF-FN XLN-MICROXLN, FRM, DNS,
SM GRAN POR IP, SM MOTT

SH-LT-MED GRY, TR BLK, VF-FN
TXT, TR SNDY, MOD FRM, PLTY,
SM BLKY, TR SPLNTY, TR CALC,
CARB, SM YEL FLU, NO VIS WET
CUT OR STN, W/ TR SS-LT GRY
-CRM, VF-FG, RND-ANGL, CONSL,
FRLY WELL SRTD, TT, PP, W/ SM
LS LS-BUFF, OFF WHT, VF-FN
XLN-MICROXLN, FRM, DNS, SM
GRAN POR IP, SM MOTT

LS-BUFF-OFF WHT. TN. TR CRM

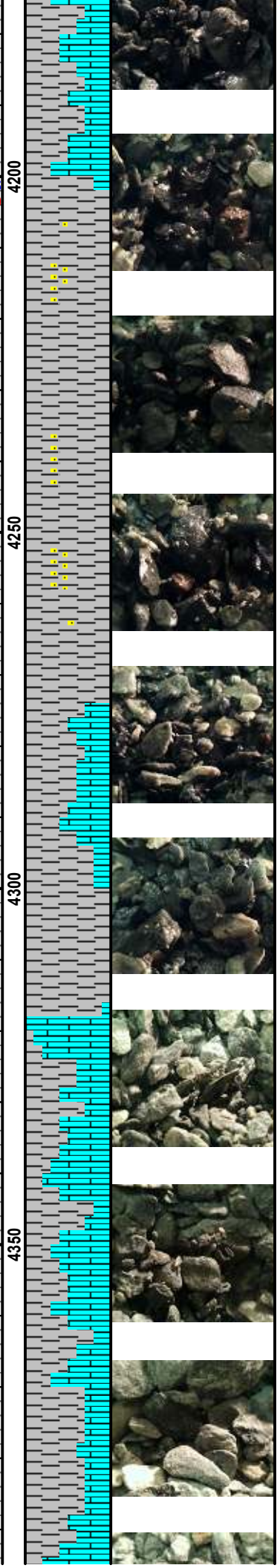
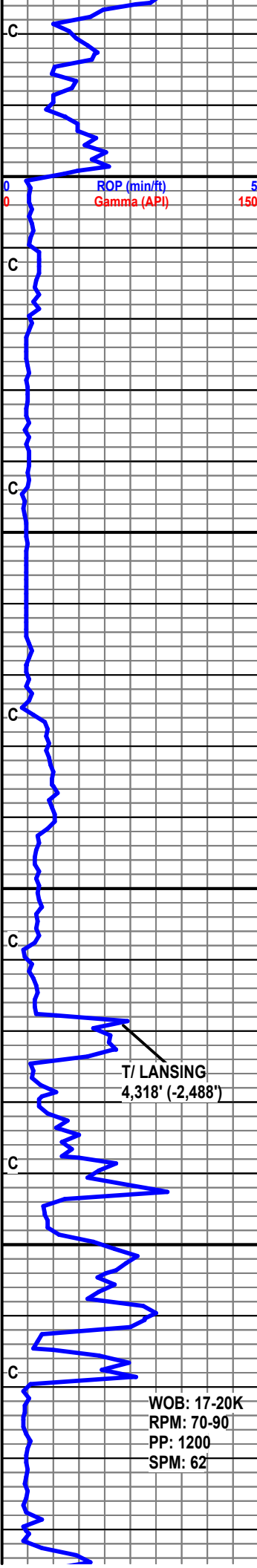
MUD CHECK
MW 10.1
FV 29
PV na
YP na
GEL na
pH 7.0
WL n/c
CK 1/32
CI 89000
SOL 7.6%
LCM 0

TG, C1-C5

200

SHALE GAS

SHALE GAS



VF-FN MICROXLN, MOD FRM -FRM
 DNS, TR GRAN POR, SM MOTT, SM
 DULL-DK YEL FLU, NO VIS WET
 CUT OR STN, W/ SCTTRD
 SH-LT-MED GRY, SM DK GRY,
 VF-FN TXT, SM SNDY IP, BLKY,
 SPLNTY, CALC, TR CARB IP

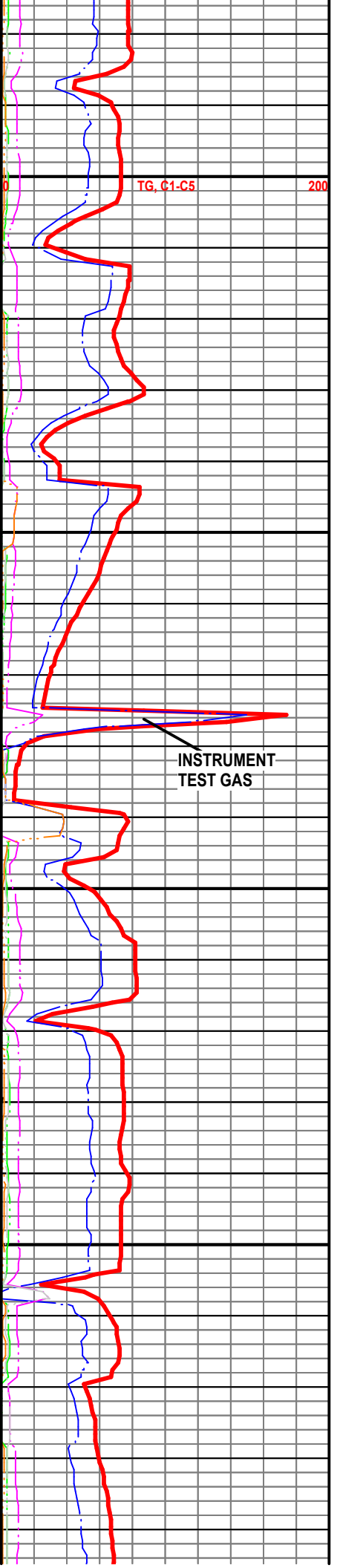
SH-LT-MED GRY, SM DK GRY,
 VF-FN TXT, SM SNDY, MOD FRM,
 BLKY, SM CALC, TR CARB, SM DK
 YEL FLU, NO VIS WET CUT OR
 STN, W/ SM LS-CRM-BUFF-OFF
 WHT, TR TN, VF-FN MICROXLN,
 MOD FRM, FRM, DNS-MOD DNS,
 SLI TR GRAN POR, SM MOTT

SH-LT-MED GRY, GY, TR DK GRY,
 VF-FN TXT, SM SLI SNDY-SNDY,
 MOD FRM, BLKY, CALC, TR CARB,
 SM DK YEL FLU, NO VIS CUT OR
 STN, W/ SM LS-CRM - BUFF, TR TN
 VF-FN XLN- MICROXLN, MOD
 FRM-FRM, DNS, TR GRAN POR, SM
 MOTT

LS-BUFF, TN, TR CRM, TR OFF
 WHT, VF-FN XLN, MICROXLN, MOD
 FRM-FRM, DNS, TR GRAN POR, SM
 MOTT, SM DULL YEL-BRT YEL FLU
 NO VIS WET CUT OR STN, W/
 SCTTRD SH- LT-MED GRY, SM DK
 GRY, VF-FN TXT, SM SNDY, BLKY,
 TR SPLNTY, TR CALC, CARB IP

LS-CRM-BUFF, TR TN, VF-FN XLN-
 MICROXLN, MOD FRM-FRM, DNS, V
 DNS IP, SLI TR GRAN POR, SM
 MOTT, SM DK YEL- DULL YEL FLU,
 TR WHT FLU, NO VIS WET CUT OR
 STN, W/ SCTTRD SH-LT-MED GRY,
 GY, SM DK GRY, VF-FN TXT, TR
 SNDY, BLKY, TR SPLNTY, CALC,
 TR CARB

SH-LT-MED GRY, TR GY, SM DK
 GRY, VF-FN TXT, SLI SNDY-SNDY,
 MOD FRM, BLKY, CALC, TR CARB,
 SM DK YEL-DULL YEL FLU, NO VIS
 CUT OR STN, W/ SM LS-CRM -
 BUFF, TR TN, VF-FN XLN-
 MICROXLN, MOD FRM-FRM, DNS,
 TR GRAN POR, SM MOTT



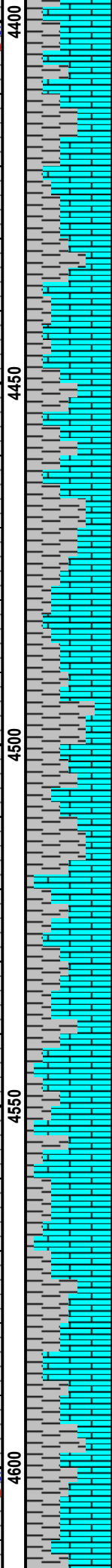
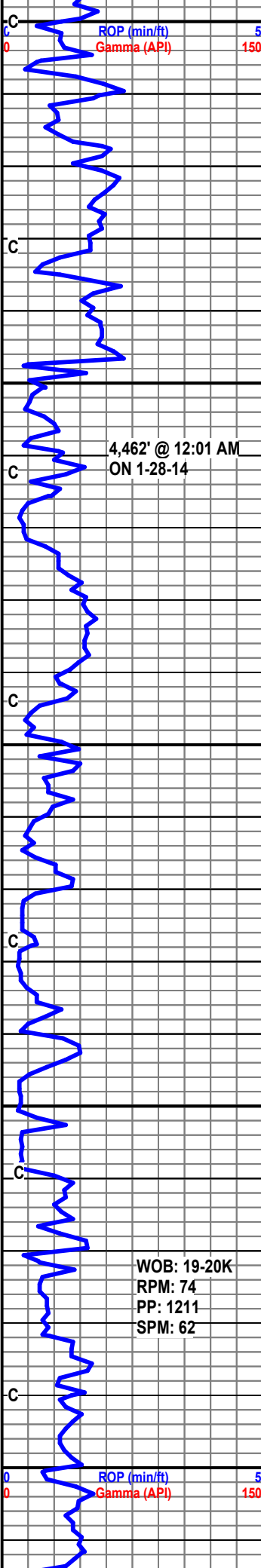
ROP (min/ft)
 Gamma (API)

TG, C1-C5

T/ LANSING
 4,318' (-2,488')

INSTRUMENT
 TEST GAS

WOB: 17-20K
 RPM: 70-90
 PP: 1200
 SPM: 62



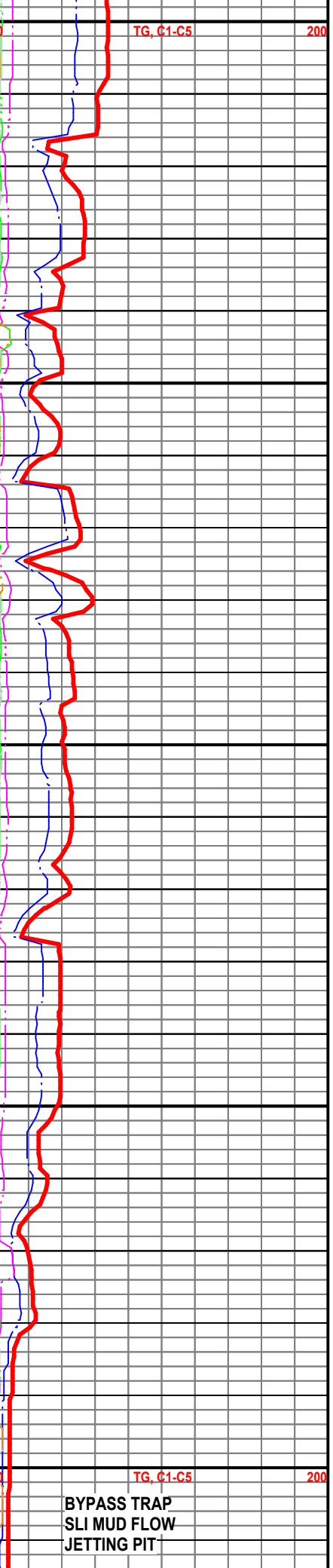
LS-CRM-BUFF, TN, VF-FN XLN, MICROXLN, MOD FRM-FRM, DNS, V DNS IP, SLI TR GRAN POR, SM MOTT, SM DK YEL- DULL YEL FLU, TR WHT FLU, NO VIS WET CUT OR STN, W/ SCTTRD SH-LT-MED GRY, GY, SM DK GRY, VF-FN TXT, TR SNDY, BLKY, TR SPLNTY, CALC, TR CARB

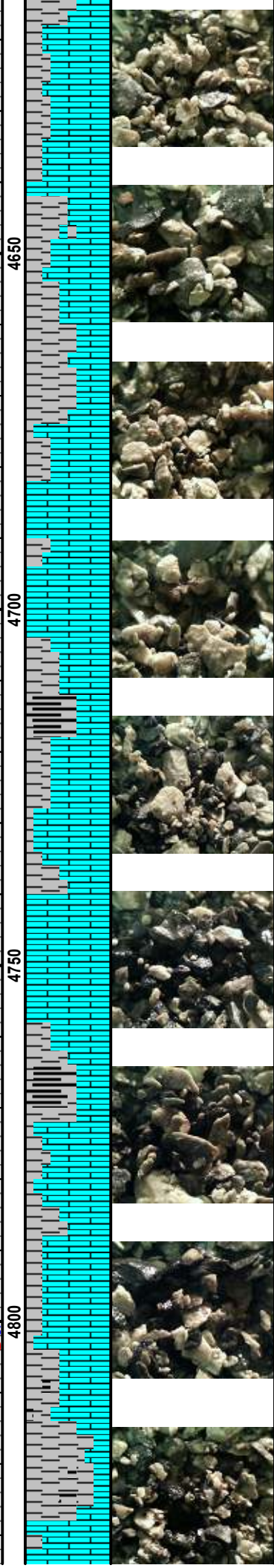
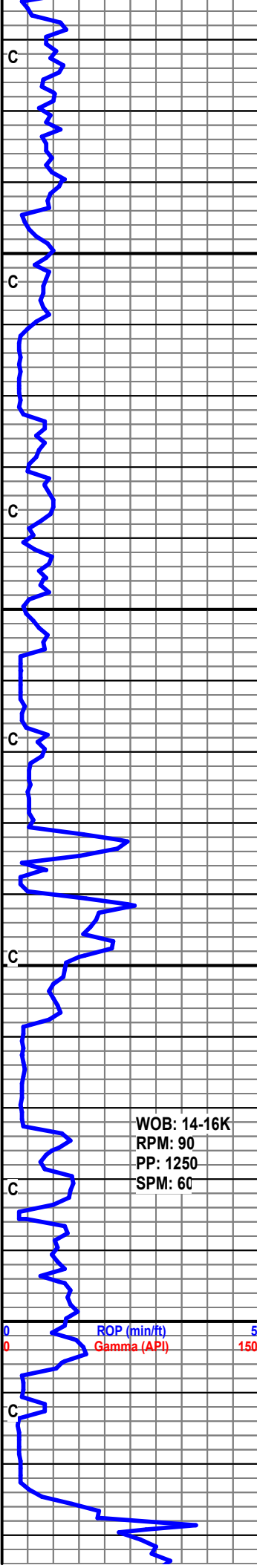
LS-CRM-BUFF, SCTTRD TN, VF-FN MICROXLN, MOD FRM, FRM, DNS-MOD DNS, SM GRAN POR IP, MOTT, TR ARGL IP, SCTTRD DK YEL-DULLYEL FLU, NO VIS WET CUT OR STN, SH-LT-MED GRY, GY TR MED DK GRY IP, VF-FN TXT, BLKY, SM CALC- SLI CARB IP

LS-CRM-BUFF, TN, OFF WHT, VF-FN XLN, MICROXLN, MOD FRM-FRM, DNS, V DNS IP, SLI TR GRAN POR, SM MOTT, SM DK YEL DULL YEL FLU, TR WHT FLU, NO VIS WET CUT OR STN, SH-LT-MED GRY, GY, SM DK GRY, VF-FN TXT, TR SNDY, BLKY, TR SPLNTY, CALC, TR CARB

LS-BUFF-TN, SM CRM, VF-FN XLN, MICROXLN, MOD FRM-FRM, DNS- V DNS, SM FRAC POR, SM GRAN, MOTT, TR ARGL IP, SCTTRD DK YEL FLU, NO VIS WET CUT OR STN, W/ SM SH- MED-MED DK GRY VF-FN TXT, BLKY, SM CALC, TR CARB

LS-CRM-BUFF, SM TN, SLI TR OFF WHT, VF-FN XLN-MICROXLN, MOD FRM-FRM, DNS, SM GRAN, MOTT, SLI TR PYR, SM ARGL, SCTTRD DK YEL FLU, NO VIS WET CUT OR STN, W/ SLI INCRS SH-MED-MED DK GRY, VF-FN TXT, BLKY, SM CALC, TR CARB





LS-CRM-BUFF, TN, OFF WHT, VF-FN XLN-MICROXLN, MOD FRM-FRM, DNS, SM GRAN, MOTT, SLI TR PYR, SM ARGL, SCTTRD DULL YEL FLU, NO VIS WET CUT OR STN, SH-MED-MED DK GRY, VF-FN TXT, BLKY, SM CALC, SLI TR CARB

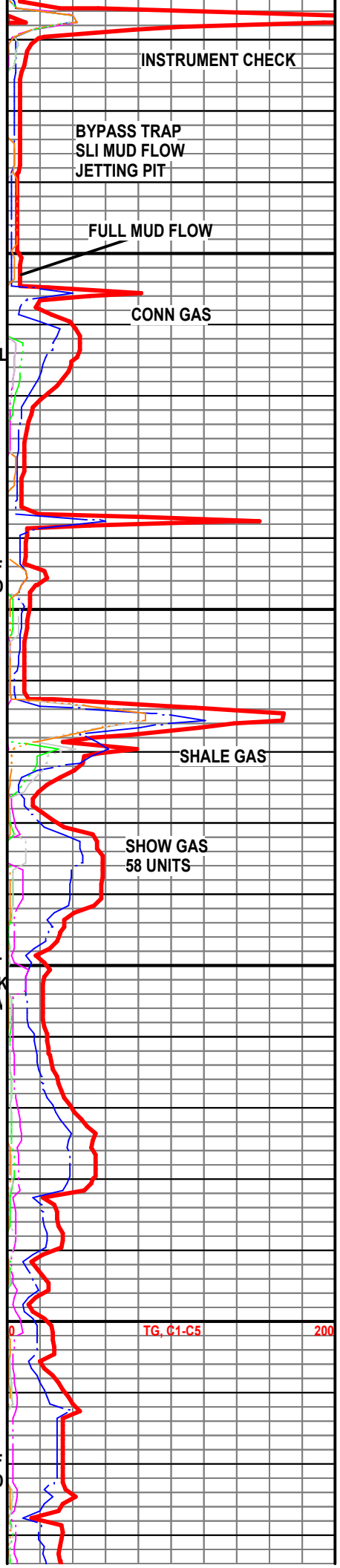
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LS-CRM-BUFF, SM TN, SLI TR OFF WHT, VF-FN XLN-MICROXLN, MOD FRM-FRM, DNS, SM GRAN, MOTT, SLI TR PYR, SM ARGL, SCTTRD DK-DULLYEL, SM GOLD YEL FLU, NO VIS WET CUT OR STN, W/ SLI INCRS SH-MED-MED DK GRY, VF-FN TXT, BLKY, SM CALC, TR CARB

LS-CRM-BUFF, SM TN, TR OFF WHT, VF-FN MICRO XLN, MOD FRM-FRM, DNS-MOD DNS, SM GRAN POR IP, MOTT, TR ARGL, SCTTRD DK YEL FLU, NO VIS CUT OR STN, SH-MED-DK GRY, SM BLK IP, VF-FN TXT, BLKY, TR CALC, SM CARB IP

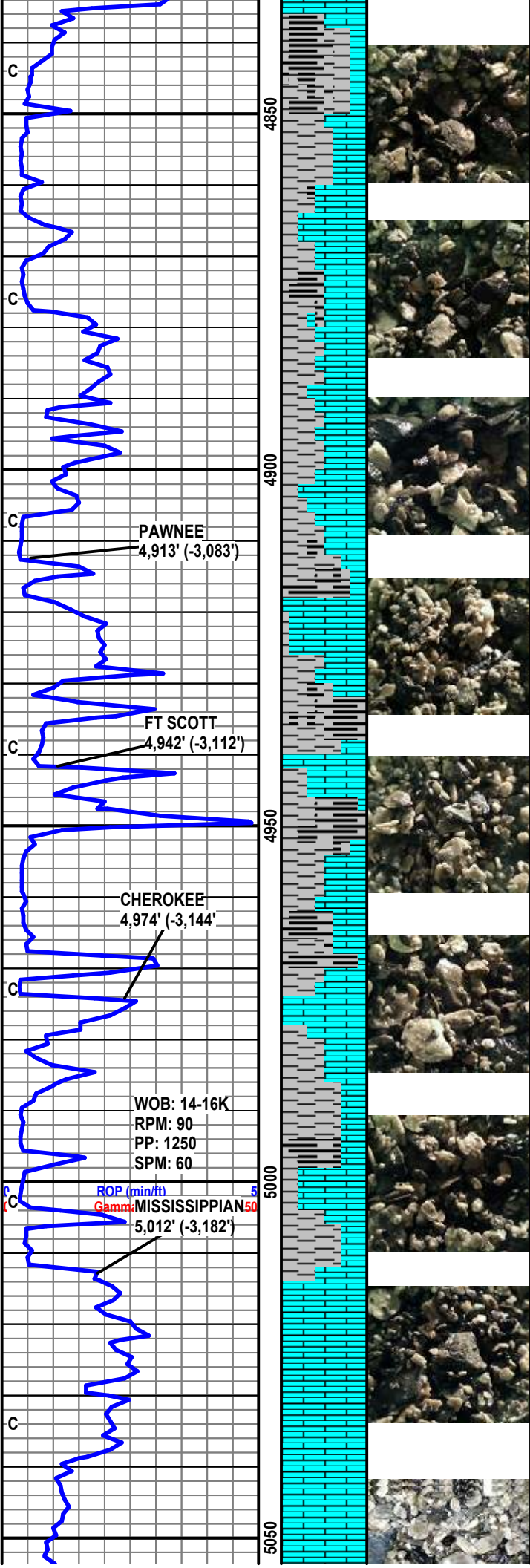
LS-CRM-BUFF, SM TN, VF-FN MICROXLN, MOD FRM-FRM, DNS, SM GRAN POR, SM MOTT, TR ARGL, SCTTRD DK YEL FLU, NO VIS WET CUT OR STN, W/ INCR SH-MED-DK GRY, SM BLK, VF-FN TXT, BLKY, TR CALC- CARB

LS-CRM-BUFF, SM TN, SLI TR OFF WHT, VF-FN XLN-MICROXLN, MOD FRM-FRM, DNS, SM GRAN, MOTT, SLI TR PYR, SM ARGL, SCTTRD DK-DULLYEL, SM GOLD YEL FLU, NO VIS WFT CUT OR STN. W/ SI



WOB: 14-16K
RPM: 90
PP: 1250
SPM: 60

LS-CRM-BUFF, SM TN, SLI TR OFF WHT, VF-FN XLN-MICROXLN, MOD FRM-FRM, DNS, SM GRAN, MOTT, SLI TR PYR, SM ARGL, SCTTRD DK-DULLYEL, SM GOLD YEL FLU, NO VIS WFT CUT OR STN. W/ SI



SH-MED-MED DK GRY, SM BLK, VF-FN TXT, BLKY, SM CALC, TR CARB

SH-MED DK-DK GRY, SM BLK, VF-FN TXT, TR SNDY, FRM-MOD FRM, BLKY, SM SLI CALC, SM CARB, SCTTRD DK-GOLD YEL FLU, NO VIS CUT OR STN, W/ LS-CRM-BUFF, SM TN, VF-FN MICROXLN, MOD FRM-FRM, DNS, TR GRAN POR, SM MOTT, TR ARG

SH-DK GRY-BLK, VF-FN TXT, MOD FRM, BLKY-SPLNTY, TR CALC, CARB, SCTTRD DK YEL FLU, NO VIS CUT OR STN, W/ LS-CRM-BUFF, SM TN, VF-FN XLN-MICROXLN, MOD FRM-FRM, DNS, SM GRAN POR, SM MOTT, TR ARGL, SCTTRD DK YEL FLU, NO VIS WET CUT OR STN,

LS-CRM-BUFF, SM TN, VF-FN MICROXLN, MOD FRM-FRM, DNS, SM GRAN POR, SM MOTT, TR ARGL, SCTTRD DK YEL FLU, NO VIS WET CUT OR STN, W/ INCR SH-MED-DK GRY, SM BLK, VF-FN TXT, BLKY, TR CALC- CARB

LS-CRM-BUFF, SM TN IP, TR OFF WHT IP, VF-FN XLN, MICRO XLN, MOD FRM-FRM, DNS-MOD DNS, SM GRAN POR IP, MOTT, TR ARGL, SCTTRD DK YEL FLU, NO VIS CUT OR STN, SH-MED-DK GRY, SM BLK IP, VF-FN TXT, BLKY, TR CALC, SM CARB IP

LS-BUFF-CRM-TN, VF-FN XLN MICROXLN, MOD FRM-FRM, DNS-MOD DNS, SM GRAN POR, MOTT, TR ARGL, SCTTRD DK YEL FLU, YEL/GN BLUM WET CUT NO STN, SLI TR SH-MED-DK GRY, SM BLK, VF-FN TXT, BLKY, TR CALC-CARB

MUD CHECK
MW 9.2
FV 41
PV 10
YP 13
GEL 9/26
pH 10.5
WL 9.2
CK 1/32
CI 5000
SOL 6.1%
LCM 4#

SHALE GAS

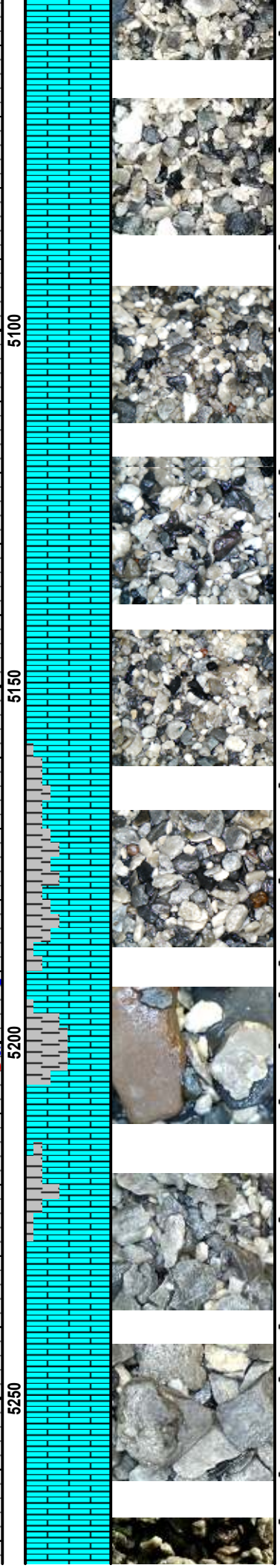
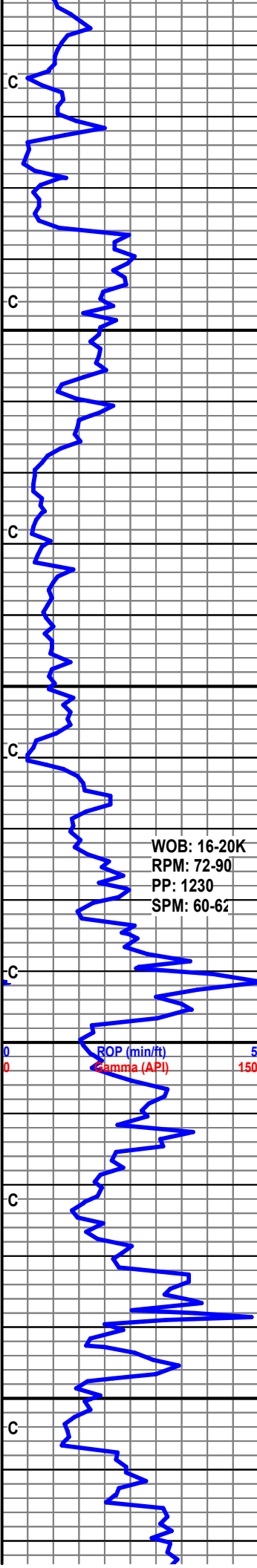
SHALE GAS

GAS SHOW
140 UNITS

SHALE GAS

GAS SHOW
122 UNITS

TG C1-C5 200



LS-BUFF-CRM-TN, VF-FN XLN MICROXLN, MOD FRM-FRM, DNS-MOD DNS, SM GRAN POR, MOTT, TR ARGL, SCTTRD DK YEL FLU, YEL/GN BLUM WET CUT NO STN, V SLI TR SH-MED-DK GRY, SM BLK, VF-FN TXT, BLKY, TR CALC-CARB

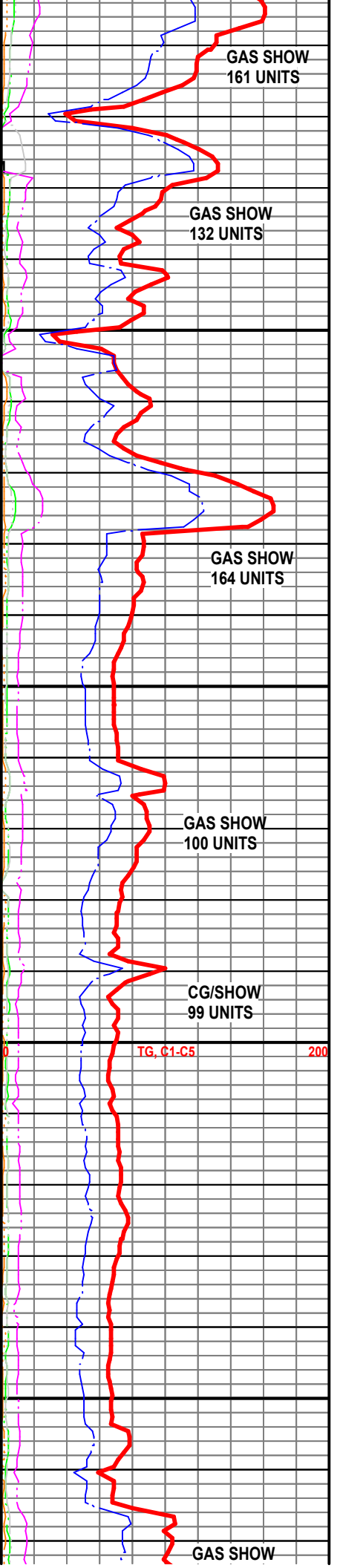
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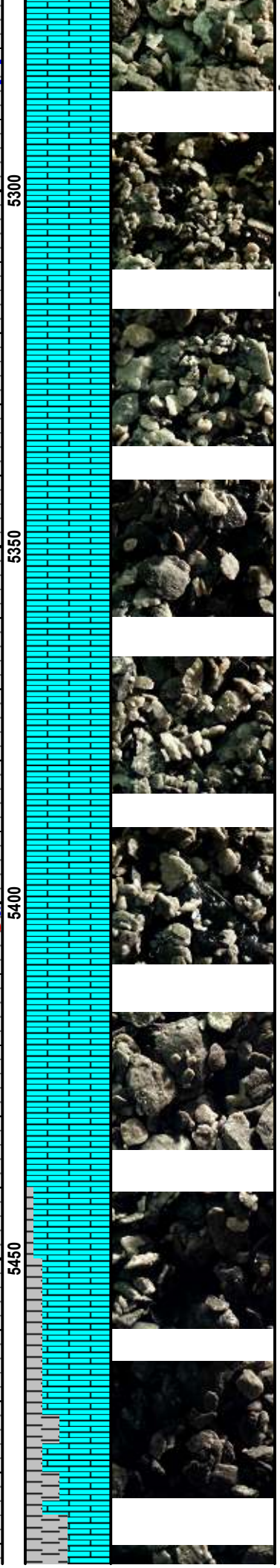
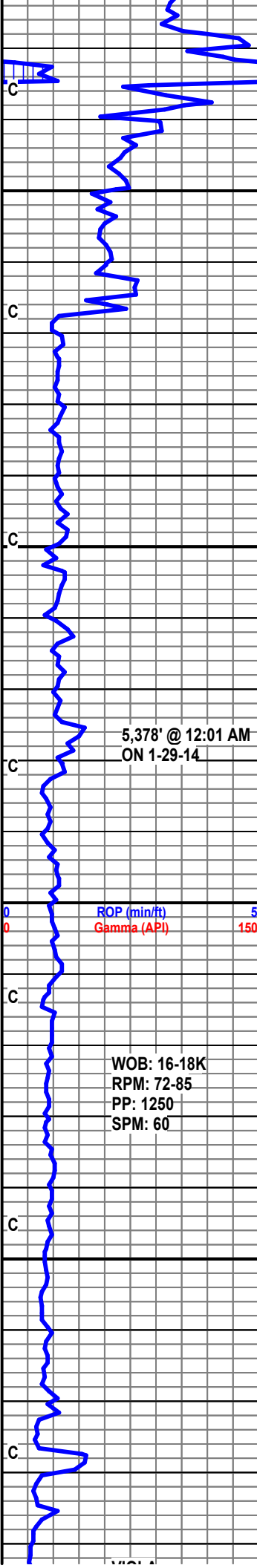
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LS-BUFF-CRM-TN, VF-FN XLN MICROXLN, MOD FRM-FRM, DNS-MOD DNS, SM GRAN POR, MOTT, F-G GRAN POR, TR ARGL, SCTTRD BRT YEL- GOLD YEL FLU, YEL/GN BLUM WET CUT, TR STN, SLI TR SH-MED-DK GRY, SM BLK, VF-FN TXT, BLKY, CALC

LS-BUFF-CRM-TN, TR LT BRN FN-VF XLN WTR MICROXLN, MOD FRM-FRM, DNS-MOD DNS, F-G GRAN POR, MOTT, TR ARGL, SCTTRD DK YEL FLU, F YEL/GN BLUM WET CUT, NO STN, SLI TR SH-MED-DK GRY, SM BLK, VF-FN TXT, BLKY, TR CALC- CARB

LS-BUFF-TN, LT BRN -TR CRM, VF-FN XLN-MICROXLN, MOD FRM, FRM, DNS, ABDNT GRAN POR, MOTT, ARGL-VRY ARGL, SM YEL TR BRT YEL AND BLU FLU, SLO BLUM MLKY YEL/GN CUT, MLKY DULL YEL-BLU DRY CUT, TR STN, NO OD, TR RNG CUT





LS-CRM-BUFF-TN, TR LT BRN
VF-FN XLN, MICROXLN, MOD FRM,
FRM, DNS, ABDNT GRAN POR,
MOTT, ARGL-VRY ARGL, SM YEL
TR BRT YEL AND BLU FLU, SLO
BLUM DULL YEL CUT, MLKY
BLU-DULL YEL DRY CUT, NO STN
OR OD

LS-CRM-BUFF, TN, SLI TR LT BRN,
VF-FN XLN, MICROXLN, MOD
FRM-FRM, DNS-MOD DNS, ABDNT
GRAN POR, MOTT, ARGL-VRY
ARGL, SM YEL- BRT YEL AND BLU
FLU, SLO BLUM DULL YEL CUT,
MLKY BLU-DULL YEL DRY CUT, NO
STN OR OC

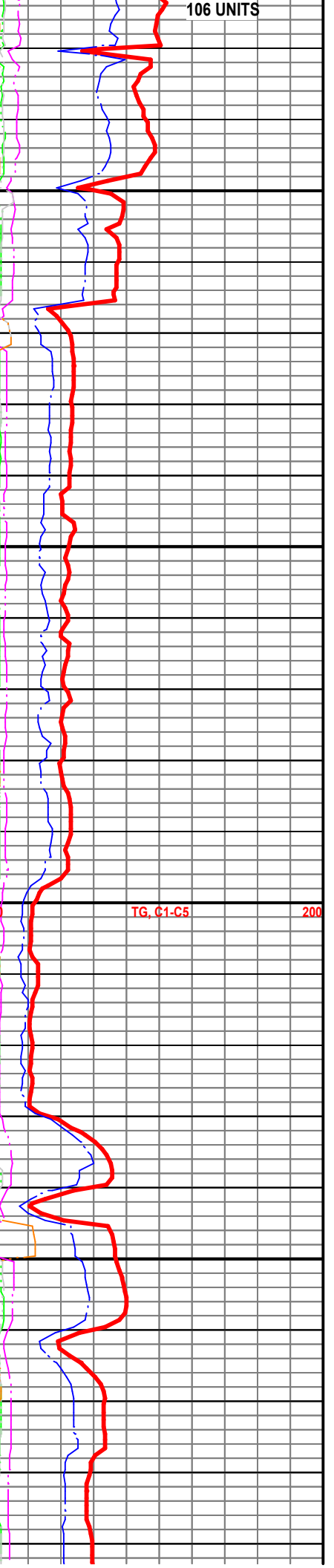
LS-BUFF-TN, TR CRM IP, SM OFF
WHT IP, VF-FN XLN, MICRO XLN,
FRM-MOD FRM, DNS-MOD DNS,
GRAN POR IP, MOTT, TR ARGL-,
VRY ARGL SCTTRD DULL YEL FLU
NO VIS CUT OR STN

LS-CRM-BUFF, TR TN, SLI TR OFF
WHT IP, VF-FN XLN, MICRO XLN,
FRM-MOD FRM, DNS-MOD DNS,
GRAN POR IP, MOTT, TR ARGL-,
VRY ARGL, SCTTRD DULL YEL
FLU, NO VIS CUT OR STN

LS-BUFF-TN, TR CRM, TR OFF WHT
IP, VF-FN XLN, MICRO XLN,
FRM-MOD FRM, DNS-MOD DNS,
GRAN POR IP, MOTT, TR ARGL-,
VRY ARGL SCTTRD DULL YEL FLU
NO VIS CUT OR STN

LS-CRM-BUFF, TR TN, SLI TR OFF
WHT IP, VF-FN XLN, MICRO XLN,
FRM-MOD FRM, DNS-MOD DNS,
GRAN POR IP, MOTT, TR
ARGL-VRY ARGL, DOLOMITIC IP,
SCTTRD DULL YEL FLU, NO VIS
CUT OR STN

SH-MED GY-DK GRY, VF-FN TXT,
MOD FRM-FRM, BLKY, TR PLTY IP,
SM CALC, LS-CRM-BUFF, TR TN IP,
TR OFF WHT, VF-FN XLN, MICRO
XLN, FRM-MOD FRM, DNS-MOI



VIOLA
5,500' (-3,670')

5500

C

C

5550

C

5600

ROP (m/ft)
Gamma (API)

5

150

C

WOB: 17-20K
RPM: 71-90
PP: 1230
SPM: 60-62

C

5650

C

5700

C



DNS, GRAN POR IP, MOTT, TR ARGL, TR YEL FLU, NO VIS CUT OR STN,

LS-CRM-BUFF, V SLI TR OFF WHT, VF-FN XLN, MICROXLN, MOD FRM-FRM, DNS-MOD DNS, TR GRAN POR, MOTT, TR ARGL, YELBRT YEL FLU, NO VIS WET CUT, NO STN OR OD

LS-CRM-BUFF, TR OFF WHT, VF-FN XLN, MICROXLN, MOD FRM-FRM, DNS-MOD DNS, TR GRAN POR, MOTT, TR ARGL, TR YEL BRT-YEL FLU, NO VIS WET CUT, NO STN OR OD

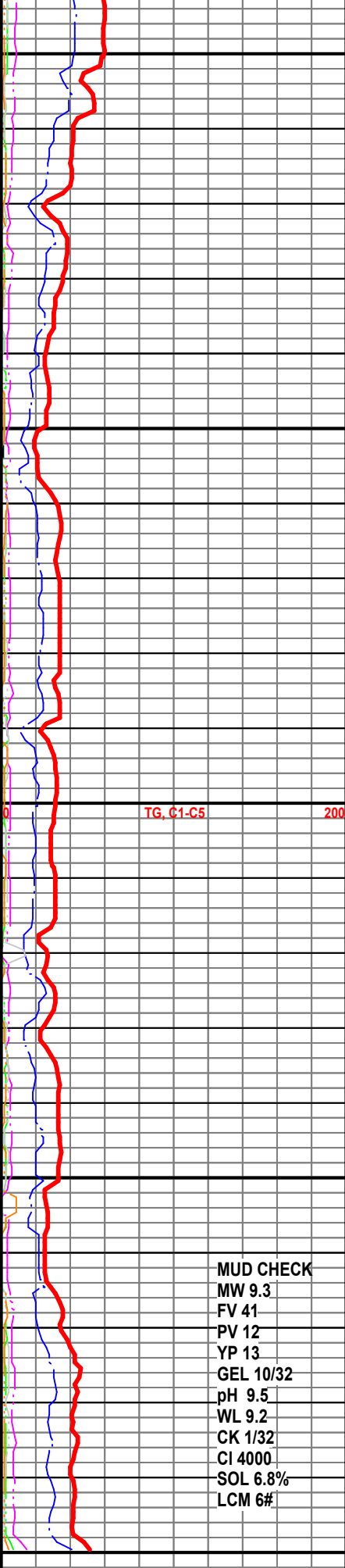
LS-CRM-BUFF, V SLI TR OFF WHT, VF-FN XLN, MICROXLN, MOD FRM-FRM, DNS-MOD DNS, TR GRAN POR, MOTT, SLI TR ARGL, YELBRT-YEL FLU, NO VIS WET CUT, NO STN OR OD

LS-CRM-BUFF, INCR OFF WHT, VF-FN XLN, MICROXLN, MOD FRM-FRM, DNS-MOD DNS, SM GRAN POR, SLI TR MOTT, SM TR ARGL, TR YEL BRT-YEL FLU, NO VIS WET CUT, NO STN OR OD

LS-BUFF-CRM, INCR OFF WHT, VF-FN XLN, MICROXLN, MOD FRM-FRM, DNS-MOD DNS, SM GRAN POR, SM CHRTY, SM TR ARGL, TR YEL-BRT YEL FLU, NO VIS WET CUT, NO STN OR OI

LS-BUFF-CRM, INCR OFF WHT, VF-FN XLN, MICROXLN, MOD FRM-FRM, DNS-MOD DNS, SM GRAN POR, SM CHRTY, SM TR ARGL, SLI TR YEL-BRT YEL FLU, NO VIS WET CUT, NO STN OR OD

TD @ 5,701' @ 9:10 AM ON 1-29-14
CIRC 1 HR SHRT TRIP



TG, C1-C5

200

MUD CHECK
MW 9.3
FV 41
PV 12
YP 13
GEL 10/32
pH 9.5
WL 9.2
CK 1/32
CI 4000
SOL 6.8%
LCM 6#

