



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

Well Name: KGS Patterson # 5-25
Well Id:
Location: Sec 25 T22S R38W, Kearny County, Kansas
License Number: 15-093-21979-00
Spud Date: March 07, 2020
Surface Coordinates: 100' FSL & 860' FEL / SE SW SE SE
Region: Patterson
Drilling Completed:

Bottom Hole
Coordinates:
Ground Elevation (ft): 3317' K.B. Elevation (ft): 3329'
Logged Interval (ft): 3600' To: Total Depth (ft):
Formation: Morrow, Viola, Arbuckle, Granite Wash
Type of Drilling Fluid: Natural Chemical

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

OPERATOR

Company: BEREXCO LLC
Address: 2020 N. BRAMBLEWOOD
WICHITA, KANSAS 67206
CO. ENG: Mr. Dana Wreath

GEOLOGIST

Name: Edwin H. Grieves/Tim Hedrick
Company: GRIEVES AND CO.
Address: PO Box 3125
Edmond, Oklahoma, 74083-3125
Cell: 405-826-9027/Cell:580-754-0062

CORE #1

Contractor: DEVILBLISS CORING
Core #: 1
Formation: CHEROKEE
Core Interval: From: 4616 Cut: 60'
To: 4676 Recovered: 60'
Bit type: SHORT C240 /SERIAL H463 IN AT 4615'
Size: 7 7/8'
Coring Time: 14:47

CORING SECTION 2

CORE #2 4676' TO 4736' - CUT 60', RECOVERED 60' CORE/ BIT 7 7/8' BIT, SHORT C240/SER.# H463-(CORE TIME 13 HR 40 MIN.)

CORE #3 4736' TO 4796' -CUT 60' -RECOVERED 60'/ BIT 7 7/8" ,SHORT CZ308, SER# F265 - (CORE TIME 6HRS 40 MIN.)

CORE #4 4880' TO 4997' CUT 17' -RECOVERED 17'/ BIT- 7 7//8" SHORT CZ 410, SER.#H422 IN @ 4880

CORE#5 4897 TO 4957' CUT 60' RECOVERED / BIT- 7 7//8" SHORT CZ 410, SER.#H422 IN @ 4897', OUT @ 4957'

CORE #6 5380' TO 5440' , CUT 60', RECOVERED 60' /BIT- 7 7//8" SHORT CZ 410, SER.#H422 IN @ 5380', OUT @ 5440'

CORE #7 5640 TO 5670' CUT 30', CORE JAMMED, RECOVERED 28.5' CORE, BIT-7 7/8 SHORT 22410, SER.QO46 IN @ 5640'

CORE#8 5670-5719' CUT 49' CORE, JAMMED, RECOVERED 49' /BIT 7 7/8" SHORT 22410 SER. QO46 IN AT 5640' OUT @ 5719'

CORE#9 5780-5811' CUT 31' CORE, RECOVERED 27' CORE,BIT 7 7/8" SHORT 22410 SER. QO46 IN AT 5780, OUT AT 5811,

CORING SECTION 3

CORE#10 -5811'-5826, CUT 15' RECOVERED 15' CORE,BIT 7 7/8" SHORT 22410 SER. QO46 IN AT 5811, OUT 5826'

5850' CORE ATTEMPT, LOST CIRC AND WOB DROPPED TO ZERO UPON ATTEMPT TO CORE/RECOVERED 6" OF CORE. DOLO& CHERT,MOVE CORE 11 TO NEXT CORE POINT

CORE #11- 5959' TO 6019' CUT 60' CORE, RECOVERED 60' CORE / BIT #1 SHORT CZ410 SER. H463/RI IN AT 5959'

CORE #12- 6019' TO 6042' CUT 23' CORE RECOVERED 23' CORE / BIT #1 SHORT CZ410 SER. H463/RI IN AT 6019'

CORE #13- 6042' TO 6102' , CUT 60' RECOVERED 60' / BIT #1 SHORT CZ410 SER. H463/RI IN AT 6042'

CORE #14 - 6102' TO 6162' , CUT 60' CORE RECOVER 60' / BIT #1 SHORT CZ410 SER. H463/RI IN AT 6102'

CORE #15- 6162' TO 6222' CUT 60'/ RECOVERED 60' / BIT #1 SHORT CZ410 SER. H463/RI IN AT 6162'

CORE #16- 6222' TO 6273' CUT 51'/ RECOVERED 51' / BIT #2 SHORT CZ410 SER. H222/RI IN AT 6222'

CORE #17 -6278' TO 6300' / CUT 22' RECOVERED 20.5' / BIT #3 SMITH 7 7/8" D42CR SER. 504452 IN @ 6278' OUT @ 6300'

LOST CIRULATION RECORD

1ST RECORD OF LOST CIRC @ 5826' - LOST 1200' WITH 12#

LOST CIRC OF 80 BBLS ON ATTEMPT TO CORE AT 5850' ALSO SEEPING WITH 20# HULLS/ ABANDON CORE 11

FOUGHT LOST CIRCULATION UNTIL WE BUILT TO 30# HULLS THEN THE HOLE HELD WITH NO LOSSES FROM 5850 TO 5959'(CORE #12 POINT)

WE HAVE LOST ONLY TRACES OF MUD SINCE REGAINING CIRC PRIOR TO CORE #11 AS OF 4/09/2020



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco, LLC
2020 N Bramblewood
Wichita, Ks 67208
ATTN: Ed Groves

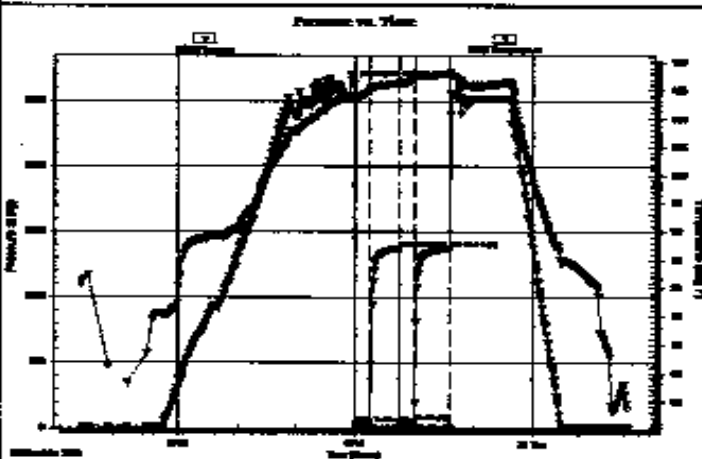
26 22a 38w Kearney, Ks
Patterson KGS #5-26
Job Ticket: 89191 DST# 2
Test Start: 2020.03.30 @ 18:22:00

GENERAL INFORMATION:

Formation: Lower Mississippian Res.
 Divided: No Whipstock ft (KB)
 Time Tool Opened: 20:59:16
 Time Test Ended: 01:35:45
 Interval: 5379.00 ft (KB) To 5430.00 ft (KB) (TVD)
 Total Depth: 5430.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches-Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Water
 Unit No: 78
 Reference Elevations: 3329.00 ft (KB)
 3317.00 ft (CF)
 KB to GRCF: 12.00 ft

Serial #: 8522 Inside
 Press@RunDepth: 50.10 psig @ 5390.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.03.30 End Date: 2020.03.31 Last Calc.: 2020.03.31
 Start Time: 18:22:05 End Time: 01:35:45 Time On Btm: 2020.03.30 @ 20:59:45
 Time Off Btm: 2020.03.30 @ 22:37:45

TEST COMMENT: 15- FF 1 1/4" blow.
 30- BS: No return.
 15- FF: 1/2" blow.
 30- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2635.18	113.85	Initial Hydro-static
1	35.90	113.86	Open To Flow (1)
16	40.89	114.75	Shut-in(1)
46	1375.06	116.32	End Shut-in(1)
47	41.45	115.86	Open To Flow (2)
52	60.10	117.13	Shut-in(2)
87	1374.17	117.84	End Shut-in(2)
99	2555.04	117.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	mid 100m	0.56

Gas Rates

	Core (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Barocco, LLC
2020 N Brentwood
Wichita, Ks 67208
ATTN: Ed Grievas

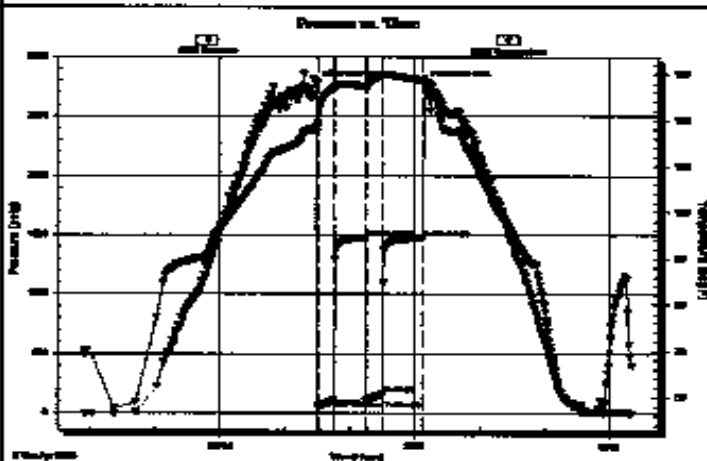
25 22a 38w Kearney, Ks
Patterson KGS #5-25
Job Ticket: 06102 DBT#: 3
Test Start: 2020.04.02 @ 09:56:00

GENERAL INFORMATION:

Formation: Viola
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:30:30
Time Test Ended: 18:20:15
Interval: 5640.00 ft (KB) To 5710.00 ft (KB) (TVD)
Total Depth: 5718.00 ft (KB) (TVD)
Hole Diameter: 7.68 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Water
Unit No: 78
Reference Elevations: 3329.00 ft (KB)
3317.00 ft (CF)
KB to GRVCF: 12.00 ft

Serial #: 8622 Inside
Press@RunDepth: 164.26 psig @ 5641.00 ft (KB)
Start Date: 2020.04.02 End Date: 2020.04.02
Start Time: 09:56:00 End Time: 18:20:15
Capacity: 8000.00 psig
Last Calib.: 2020.04.02
Time On Btm: 2020.04.02 @ 13:29:15
Time Off Btm: 2020.04.02 @ 15:09:45

TEST COMMENT: 16- FF: 10 1/2" blow.
30- FS: No return.
18- FF: 8 1/2" blow.
30- FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2778.17	118.45	Initial Hydro-static
2	51.93	118.97	Open To Flow (1)
17	115.43	127.08	Shut-In(1)
46	1476.69	127.18	End Shut-In(1)
46	104.04	126.80	Open To Flow (2)
61	164.26	129.78	Shut-In(2)
98	1474.31	128.68	End Shut-In(2)
101	2778.72	128.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	flow 5m BSW	4.21

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mscfd)

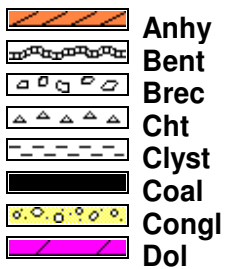
* Recovery from multiple tests

Wichita TriLOBITE, Inc.

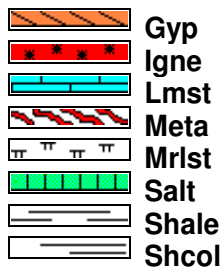
Ed Grievas

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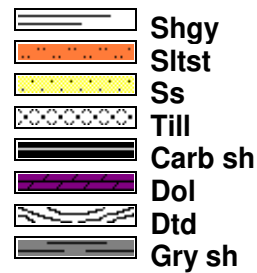
ROCK TYPES



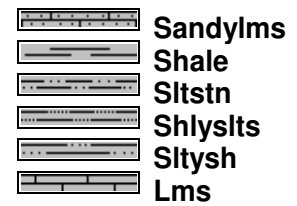
Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol



Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol



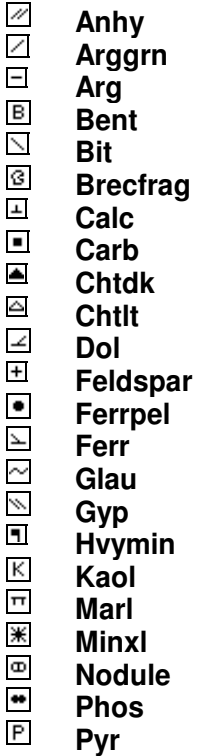
Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh



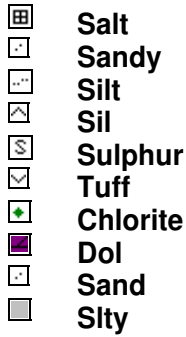
Sandylms
Shale
Sltstn
Shlyslts
Sitysh
Lms

ACCESSORIES

MINERAL

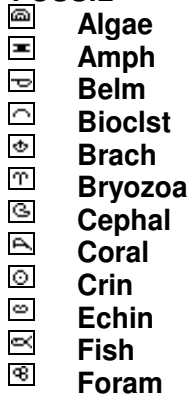


Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr

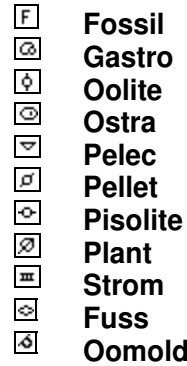


Salt
Sandy
Silt
Sil
Sulphur
Tuff
Chlorite
Dol
Sand
Sity

FOSSIL

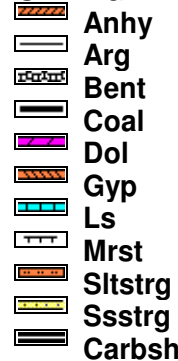


Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram



Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomold

STRINGER

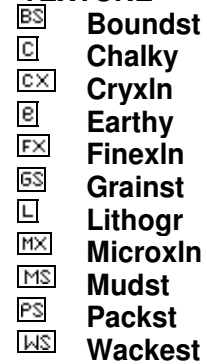


Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh



Clystn
Dol
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

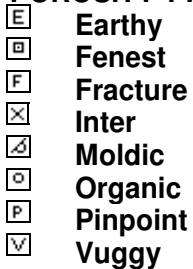
TEXTURE



Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY TYPE



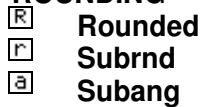
Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint
Vuggy

SORTING



Well
Moderate
Poor

ROUNDING

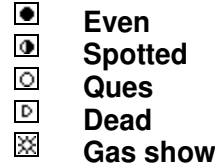


Rounded
Subrnd
Subang



Angular

OIL SHOWS



Even
Spotted
Ques
Dead
Gas show

INTERVALS

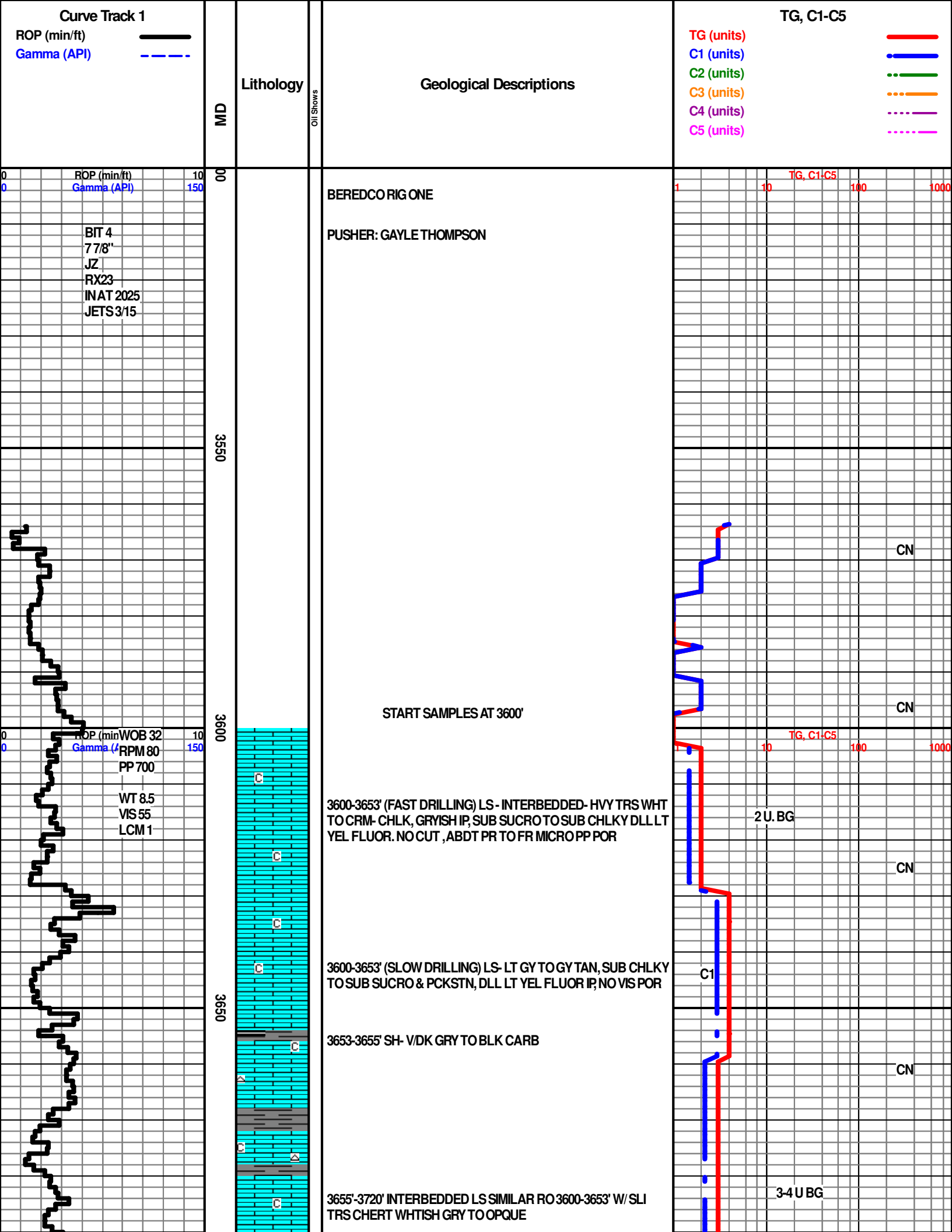


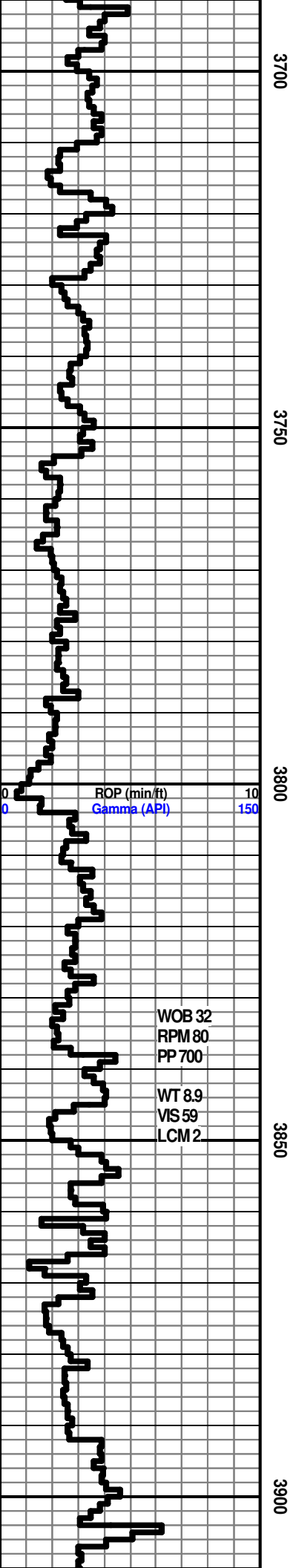
Core
Dst
Dst

EVENTS



Rft
Sidewall





3720-3723' SH V/DK GRyto BLK SFT CARB

3723-3754' LS-INTERBEDDED LS SIMILAR TO 3600-3653'

3754-3798' LS- V/ TO EXTREMELY ABDT WHT TO CRM CHLK & LT GY TO TAN SUB SUCRO TO PCKSTN, DLL LT TO LT YEL FLUOR, NO CUT, ABDT PR FR GD TO TRS EXCEL MICRO PP & INTER-XLN POR, POR INCREASES W/ DEPTH

B. HEEBNER 3804' - 475'

SH- V/ DK GRyto BLK CARB

3804-3808' LS CRYPTO-XLN TRS SUB LITHO- DLL YRL FLUOR, NO VIS POR

3819-3838' LS- HVY TRS WHT TO CRM CHLK & CRM TO TAN, SUB CHLKY SUB SUCRO TO SUCRO, DLL LT TO BRIT YEL FLUOR, NO CUT, TRS PR TO FR MICRO PP & INTER-XLN POR

3838-3845' LS- CRM LT TN GY IP, CRYPTO-V/V/FN-XLN TRS S-LITHO, YEL FLUOR, NO VIS POR

3845-3863' LS-LT GRyto TN, SHLY IP, CRYPTO-XLN & PCKSTN, DLL LT YEL FLUOR, NO VIS POR

LANSING FM - 3863' - 534'

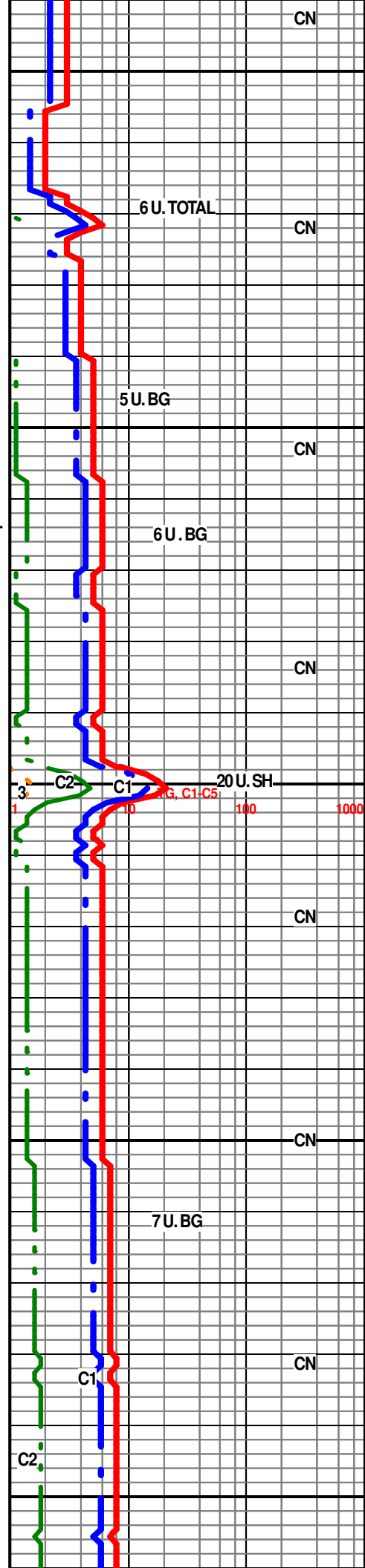
3863'- 3872' LS- LT GRyto TN- CRYPTO-V/V/FN-XN TRS PCKSTN, DLL YEL FLUOR, NO VIS POR

3872'-3892' LS- HVY TRS WHT TO CRM-CHLK & TAN SUB CHLKY TO SUB SUCRO, DLL YEL FLUOR, NO CUT, TRS PR FR TRS GOOD MICRO PP POR

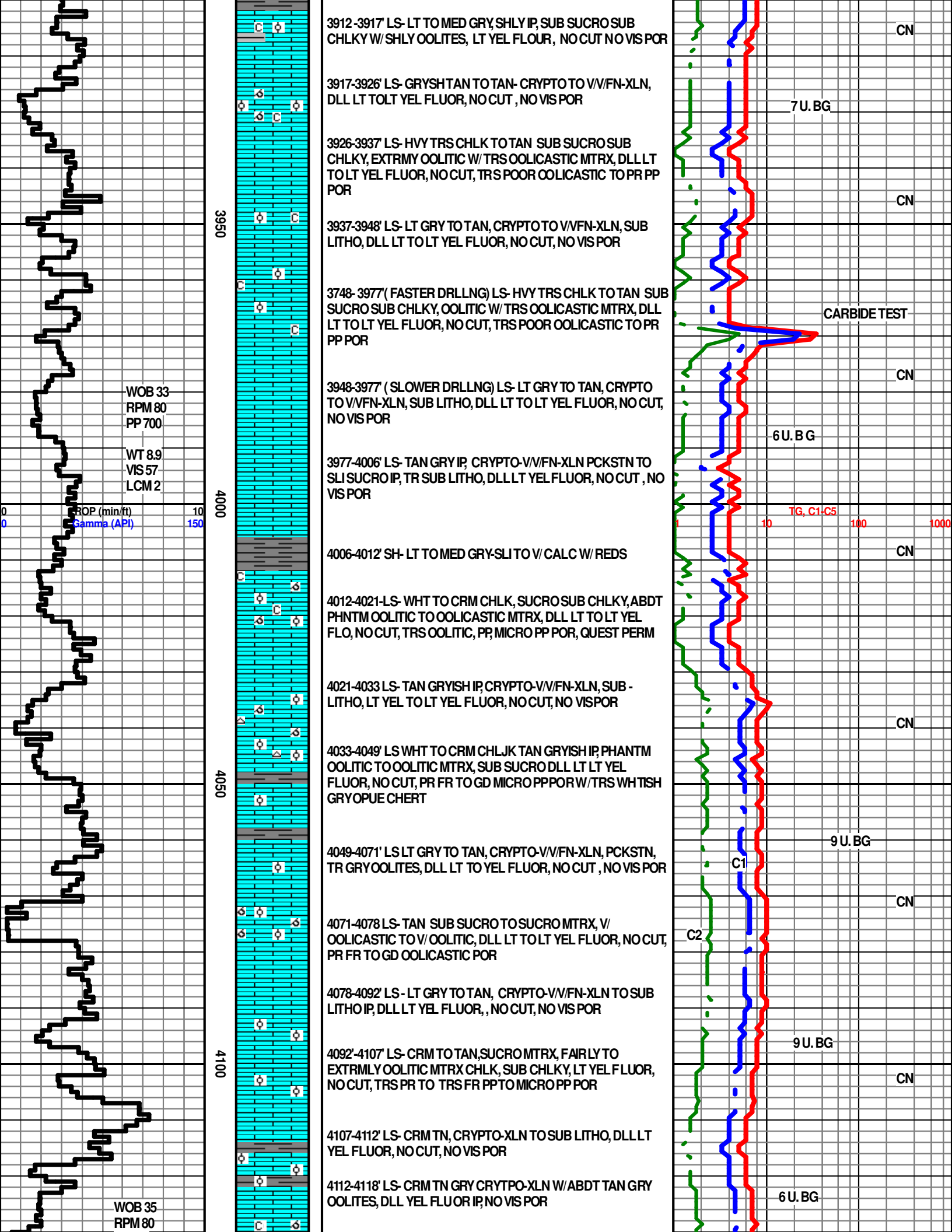
3892'-3901' LS-SIMILAR TO 3863' 3872' W/ HVY TRS SUB LITHO

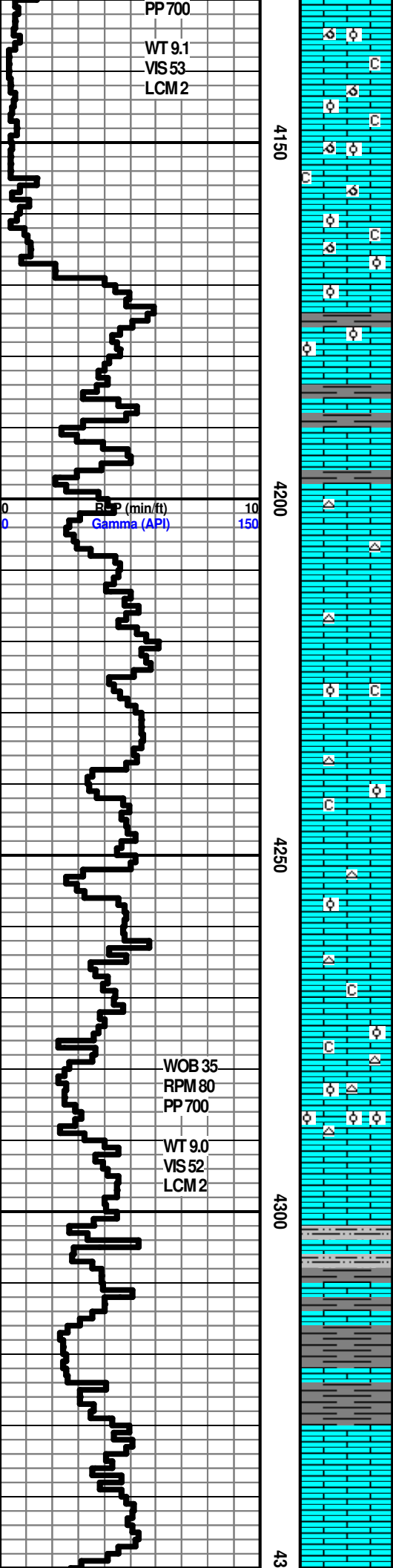
3901-3904' SH- MED TO DK GRyto CALCTO BLK CARB

3907-3912' SH- MED GRyto W/ TRS RED SH



WOB 32
RPM 80
PP 700
WT 8.9
VIS 59
LCM 2





4188-4169' LS- ADBT WHT TO CRM CHLK, & TAN SUB CHLKY TO SUCRO, V/ TO EXTREMELY OOLICASTIC & OREXTRMLY OOLITIC, DLL LT YEL TO YEL FLUOR, ADBT PR FR TRS GD OOLICASTIC POR, QUEST PERM

4169-4180' LS- CRM TN GRY CRYPTO-XLN W/ ADBT TAN GRY OOLITES, DLL YEL FLUOR IP, NO VIS POR

4180-4195' LS- LT GRY TO TN, CRYPTO-XLN PCKSTN TO SUB LITHO, DLL YEL FLUOR, NO CUT, NO VIS POR TRS SH LT TO MED GRYS LI TO EXTRMYL CALC TRS DK GRY

4195-4208' LS- TAN, SUCRO TO SUB SUCRO, V/V/DLL YEL FLUOR, NO CUT, TRS PR MICRO PP POR, W/ TRS WHTISH GRY OPQUE CHERT

4208-4279' (SLOWER DRILLING) LS- LT GRY TO TN, CRYPTO-VV/FN-XLN, SUB LTHO, DLL YEL FLUOR, NO CUT, NO VIS POR

4208-4279' (FASTER DRILLING) LS- WHT TO CRM CHLK, SUCRO SUB SUCRO, SLI TO EXTRML OOLITIC, DLL LT YEL FLUOR, NO CUT, TRS PR TO FR MICRO PP POR, TRS CHERT LT GRY TO OPQUE

4279-4290' LS TRS WHT TO CRM CHLK, & TN, SUB CHLKY TO SUB SUCRO, FRLY OOLITIC MTRX, NO CUT, DLL LT YEL FLOR, TRS PR TO FR MICRO PP POR, TRS CHERT LT GRY OPQUE

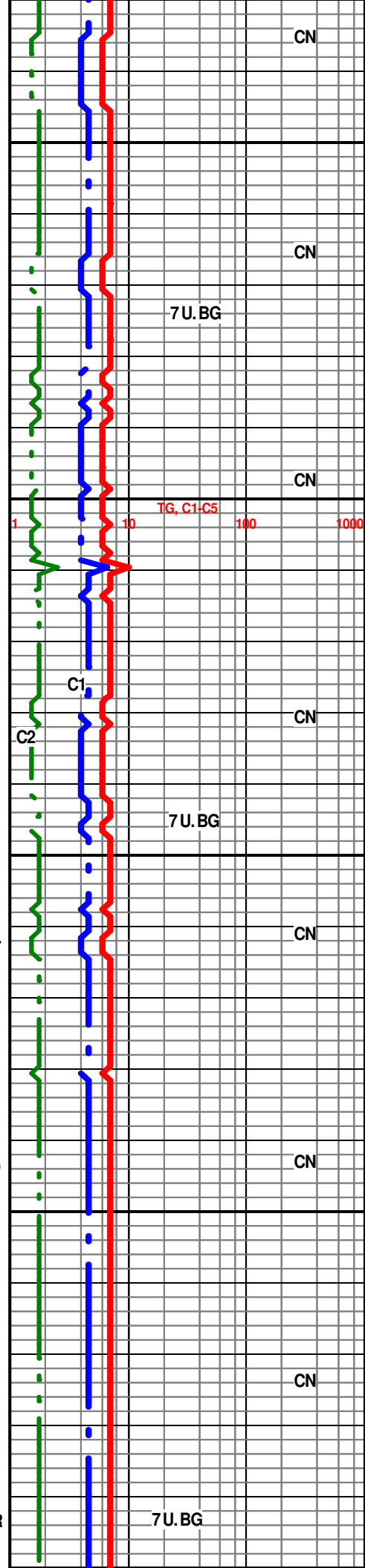
4290-4301' LS- LT GRY TO TN, CRYPTO-VV/FN-XLN PCKSTN TO SUB LITHO, DLL YEL FLUOR, NO CUT NO VIS POR

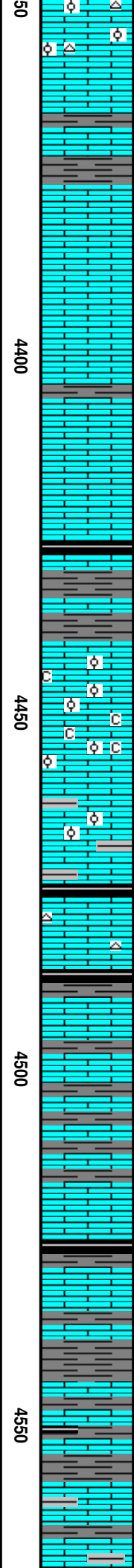
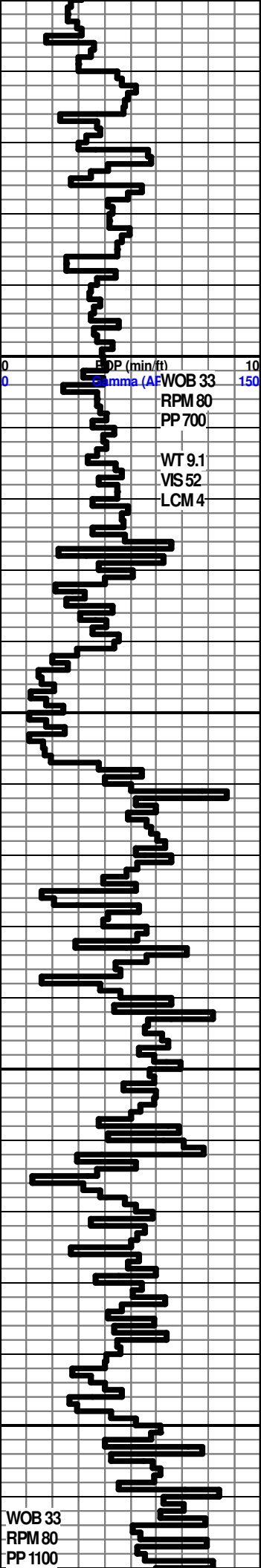
BKC 4301' -972'

4301-4329' LS-LT TO MED GRY, CRYPTO-VV/FN-XLN S-CHLKY TO V/SHLY IP'S GRADING TOSH LT TO MED GRY, TR LT YEL FLO, NO CUT, NO VIS POR, TRS SILTST FN GRN SH FILLED

MARMATON 4329' -1000'

4329-4349' LS-LT GRY TO TN, CRYPTO-VV/FN-XLN, TR PCKSTN, TR S-LITHO, DLL LT YEL FLUOR, NO CUT, NO VISPOR





4349-4360' LS - LT GRY TO TN,SUCRO TO S-SUCRO SLI TO V/
OOLITIC MTRX DLL YEL FLUOR, NO VIS POR, TRS CHERT TAN
OPQUE

4360-4427 SH- MED TO V/DK GRY , CALC TO BLK CARB
LOOKING

4360-4427 LS- LT TO MED GRY TO TN, CRYPTO-VV/FN-XLN
PCKSTN TO S-LITHO, TRS DLL YEL FLUOR. NO CUT, NO VIS
POR

PAWNEE 4428' -1099'

4427' -4428' SH- V/ DK GRY TO BLK CARB

4428'-4440' SH- MED TO V/ DK GRY SLI TO V/ CAL TO LS LT GRY
TO TN CRYPTO-XLN PCKSTN TRS OOLITIC, TRS DLL YEL
FLUOR, NO CUT , NO VIS POR

4440-4451' LS- A BDT WHT TO CRM CHLK W/LT GRY OOLITES IP,
ABDT TAN OOLITES, SUB SUCRO TO SUB CHLKT MTRX, DLL
LT YEL FLUOR, NO CUT, HVY TRS PR FRGD TO EXCEL MICRO
PP POR

4457-4475' LS-LT GRY SLI TO FRLY SHLY CRYPTO-XLN
PCKSTN, TR PHNTM OOLITES, DLL LT YEL FLUOR, NO CUT NO
VIS POR

4475-4477 SH- V/DK GRY TO BLK CARB

4477-4485' LS- SIMILAR TO 4457-4475, W/ TRS GRY CHERT

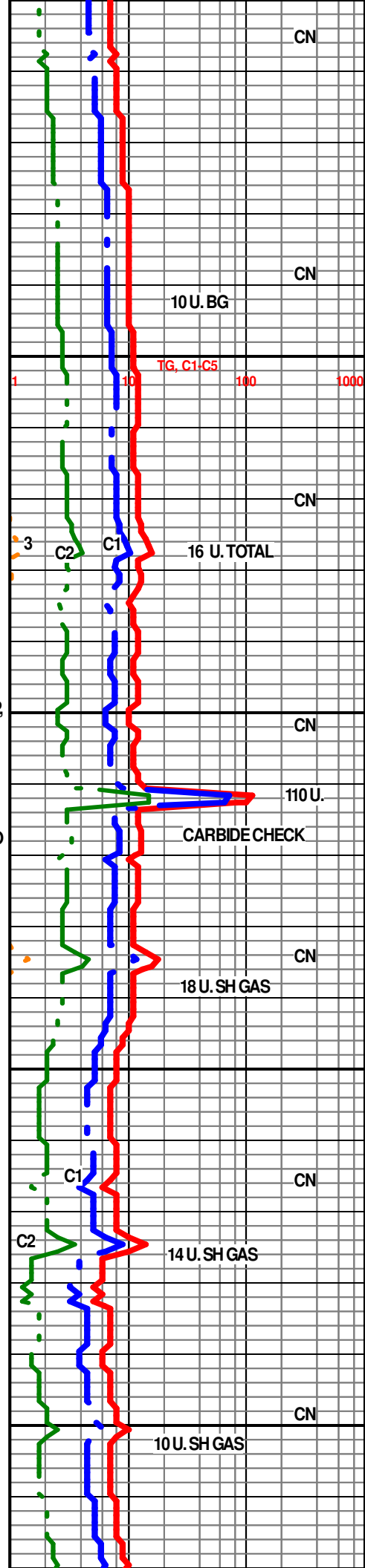
4585'-4590 SH- V/ DK GRY TO BLK CARB

CHEROKEE 4485' -1156'

4490-4525 LS-LT TO MED GRY, SLI TO EXTRMY SHLY GRDING
TO CALC SHALES LT TO MED GRY, SUB SUCRO TO PCKSTN,
NO FLUOR TO TR DLL YEL FLUOR IP, NO CUT NO VIS SHOW

4525-4526' SH- V/ DK GRY TO BLK CARB

4526' 4571- LS- TN GRY IP, CRYPTO-XLN TRS SUB LITHO,
PCKSTN , ABDT TO V/ SHLY IP, INTERBEDDED SHALES &
LIMES, NO CUT , NO VIS POR



WOB 33
RPM 80
PP 1100

CN
CN
10 U. BG
CN
16 U. TOTAL
CN
110 U.
CN
18 U. SH GAS
CN
14 U. SH GAS
CN
10 U. SH GAS

10 U. BG

TG, C1-C5 100 1000

16 U. TOTAL

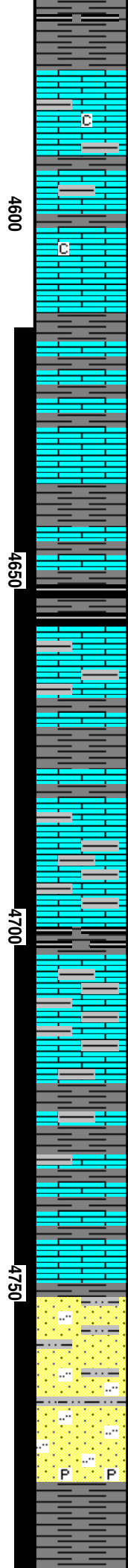
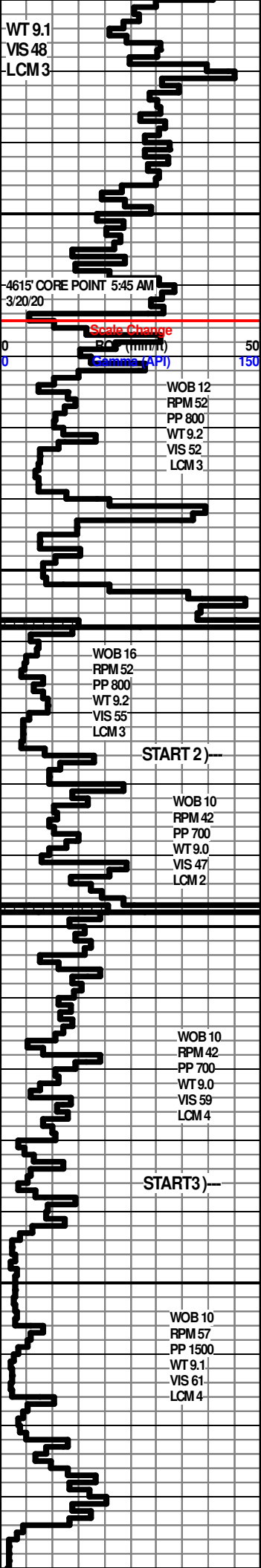
110 U.

CARBIDE CHECK

18 U. SH GAS

14 U. SH GAS

10 U. SH GAS



4571-4578' SH- MED TO DK GRY TO BLK CARB

4578-4615' LS- TN GRYISH TAN, CRYPTO-V/V/FN-XLN TRS CHLK WHT , SUB SUCRO PCKSTN, V/ SHLY IP'S, DLL YEL FLUOR IP, NO CUT, NO VIS POR

CFS/ SHORT TRIP/ CTCH/ TRIP OUT TO PICK UP CORE BARREL

START CORE #1 @ 4:30 AM 3/22/20, PLEASE NOTE SCALE CHANGE @ 4616' DRILL TIME 0-50 MINUTES

NOTE: NO SAMPLES IN TRAP BOX

4616-4676' INTERBEDDED LS & SHALES 1. (FASTER DRILLING) LS- GRYISHIP TN, CRYPTO-XLN V/V/FN-XLN PCKSTN SUB LITHO, DLL YEL FLUOR, NO CUT , NO VIS POR

SH-V/DK GRY TO BLK CARB

2. (SLOWER DRILLING) LS-LT TO MED GRY- SLI TO V/ SHLY, CRYPTO-XLN SUB SUCRO NO FLUOR, NO CUT, NO VIS POR

COMPLETE CUTTING CORE #1 7:17 PM 3/22/20

RECOVERED 60' CORE

START CORE #2 @ 4676' AT 5:25 AM 3/23/2020

4676'-4734' (FAST DRILLING) LS-LT TOMED GRY, SLI TO EXTRMLY SHLY, CRYPTO-XLN PCKSTN, ABDT SH PARTINGS, NO FLUOR, NO CUT, NO VIS POR

4699-4701'-SH- MED TO DK GRY- TO BLK CARB

4676'-4734' (SLOW DRILLING) SH - MED TO V/ DK GRY, SLI TO EXTRMLY CALC TO BLK CARB, SOME INTERVALS MARLED SHALES & LIMES

4734-4736' SH-V/ DK GRY TO BLK FILL TO CRUMBLY

RECOVERD 59' CORE AND DESSIMATED SH CRUMBLES FOR 1' ON CORE #2

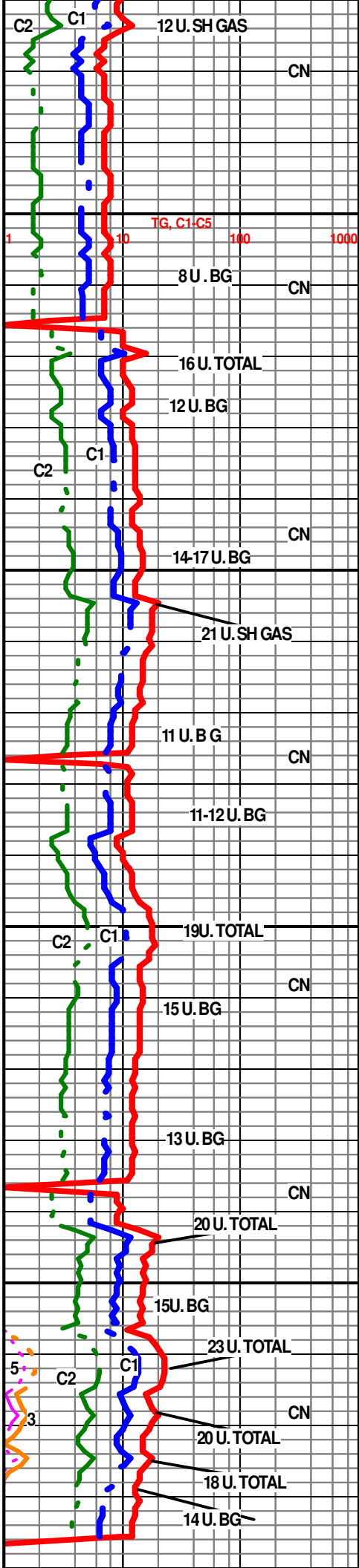
COMPLETE CORE #2 @ 4736' AT 7:05 PM 3/23/2020

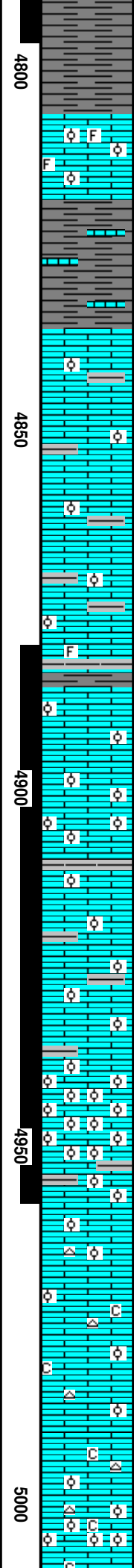
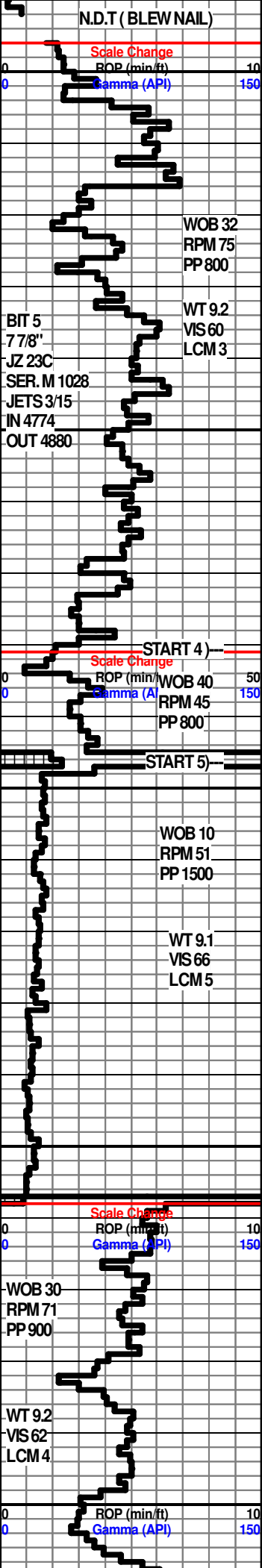
START CORE #3 @ 3:15 AM 3/24/2020 @ 4736'

4751-4768' QURTZ SDST-(TAN DUE TO OIL STN) STRNG OIL ODOR, V/V/FN TO V/FN, TRS FN, ANG TO S-ANG, SILT FILLED, PR TO FR SRT, GLDNYEL FLUOR, FLSH TO EXCEL STM CUTS, FR TO EXCEL PP TO INTER-GRAN POR

4768- 4777'-QURTZ SDST- GRYISH TAN TO LT TAN FROM OIL STN, GD OIL ODOR,V/V/FN TO V/F-GRN , TRS FN GRN, ANG TO S-ANG, FR TO GD SRT, DLL GLDN YEL FLUOR, FLSH TO EXCELSTRM CUT, FR TO EXCEL MICRO PP TO INTER-GRAN POR,BOTTOM HALF OF SS APPEARS FLSHED

4777'-4778' QURTZ SDST, LT GRY TAN IP,V/V/FN TO FN GRN, ANG, POOR SRT, CLAY & SILT FILLED, ABDT FINLY DISS PYR, V/ DLL YEL FLUOR, V/SLOW STRM TO GD RING CUT, NO VIS POR





COMPLETE CORE #3 @ 9:55 AM 3/24/20 @ 4796'

4798-4806' SH- MED TO GRY- SFT MUSHY WHEN WET TO DK GRYSPINTRY

4806'-4818' LS- TN TO LT GRY- CRYPTO-V/V/FN-XLN,PCKSTN, V/OOLITC IP(TN GRY) TR FOSS, DLL YEL FLUOR IP, NO CUT NO VIS POR

4818-4836' SH- LT TO MED GRY, EARTHY TXTT, SLI TO V/ CALC W/ INTERBED LS IP

4836'-4880' LS- TRS WHT TO CRM CHLK & CRM TN, SUB SUCRO S-CHLKY PCKSTN, ABTD SLI TO V/PHNTM OOLITIC TO OOLITIC, W/ INTERBEDS LT TO MED GRYSH, DLL YEL FLUOR, NO CUT , NO VIS POR

STARTED CORE #4 @ 4880' AT 10:57 AM 3/25/2020

4880-4881' LS-LT LT GRY TR FOSS RE-XLN, CRYPTO-XLN DLL YEL FLUOR, NO CUT , NO VIS POR

4881-4882' SH-MED TO DK GY CALC

4884'4897' LS- LT GRY TAN, CRYPTO-XLN PHNTM OOLITIC IP, DLL YEL FLUOR NO CUT , NOVIS POR

BARREL JAMMED CORE #4 @ 4897' 4:55 PM 3/25/2020

STARTED CORE #5 @ 4897' AT 4:55 AM 3/26/2020

4897'-4910' LS- LT GRY TO GR/SH TN, CRYPTO-XLN V/ OOLITIC MTRX, SUB SUCRO IP, DLL YEL FLUOR, NO CUT , TRS V/PR MICRO PP POR

4910-4910.5 SH- LT GREEN TO GR/SH GREEN SFT

4910.5'-4937' LS- LT GRY TO GR/SH TN, CRYPTO-XLN V/ OOLITIC MTRX, SUB SUCRO IP, LAMINATED SH PARTINGS, DLL YEL FLUOR, NO CUT , TRS V/PR MICRO PP POR

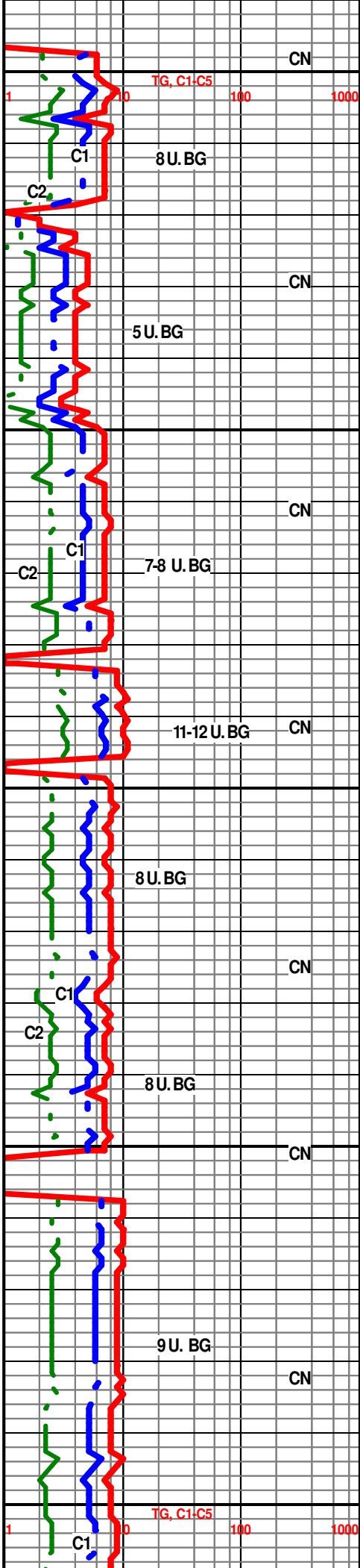
4937-4954' LS- TN GRISH IP, SUB SUCRO, V/ TO EXTRMLY OOLITIC(SMLL TO TRS MED OOL), DLL YEL FLUOR, ABTD PR, FR TRS GD TO EXCEL MICRO PP & SOME INTEROOLITIC POR, NO CUT, NO VIS SHOW, SCATT SH PARTINGS

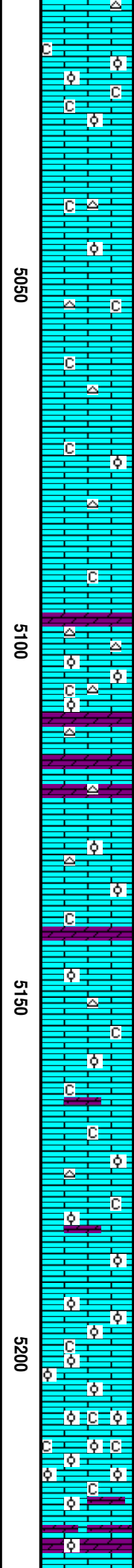
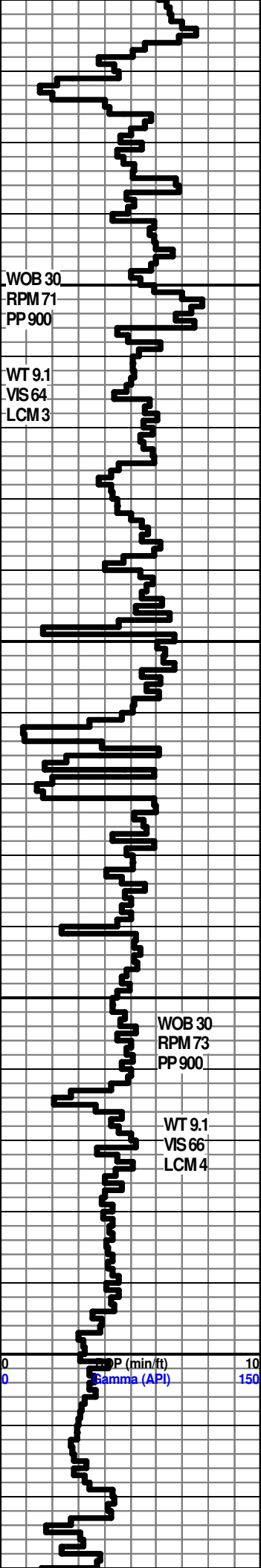
4954-4957LS- LT GRY- SUB SUCRO PCKSTN, PHNTM OOLITES, HVY TRS CARB & MED GRY SHPARTINGS, NO CUT , NO VIS POR

CORE #5 COMPLETE 9:09 AM 3/26/2020

4957'-4998' LS- WHT TO CRM CHLK, SUB SUCRO PCKSTN, PHNTM OOLITIC TO OOLITIC IP, DLL YEL FLUOR, NO CUT, NO VIS POR, TRS CRM LT GRY OPQUE CHERT

4798-5007' LS- WHT TO CRM CHLK & LT TN, SUB SUCRO TO SUCRO V/TO EXTRMLY OOLITIC(MED TO LRG OOLITES) YEL TO GLDN YEL FLUOR, NO CUT, HVY TRS FR MICRO PP POR W/ TRS LT GRY OPQUE CHERT





TRSLT GRY OPQUE CHERT

5007-5018 LS- GRYSHTN TO TN, CRYPTO-VV/FN-XLN SUB LITHO, SLI OOLITIC, NO CUT DLL YEL FLUOR, W/ TRS CHERT LT GRY OPQUE

5018-5026' LS ABDT WHT TO CRM CHLK, TN SUB CHLKY ,PCKSTN TO S-LITHO IP, TRS SLI TO V/ OOLITIC, DLL YEL FLUOR, NO CUT, TRS PR MICRO PP POR

5026-5097 LS- TRS ABDT WHT TO CRM CHLK & LT TN TO MED GRY, CRYPTO-XLN SUB SUCRO TRS SUB LITHO, SLI OOLITIC, DLL YEL FLUOR IP, NO CUT, NO VIS POR, W/ TRS CHERT WHT TO LT GRY, OPQUE TO TRANSLCNT

5097-5099' DOLO-LT GRY SUB SUCRO TO V/ SUCRO YEL FLUOR, NO CUT NO VIS POR

5099' - 5110' LS- LT GRY TO TN, CRYPTO TO VV/FN-XLN TR SUB CHLKY IP, SLI TO V/ OOLITIC(SMLL TO MED OOLITES) DLL YEL FLUOR. NO VIS POR, W/ TRS CHERT WHT TO LT GRY OPQUE

5110- 5122' INTERBEDDED DOL & LS W/ TRS SH

1. (FASTER DRILLING) DOLO-LT GRY SUB SUCRO TO V/ SUCRO YEL FLUOR, NO CUT NO VIS POR

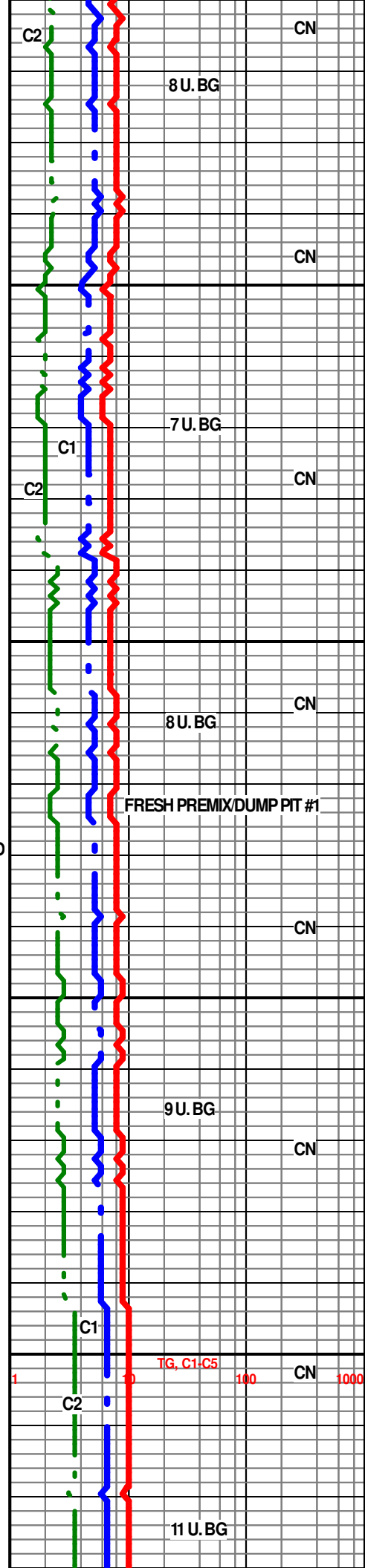
2. (SLOWER DRILLING) LS- LT GRY TOTN, CRYPTO TO VV/FN-XLN TR SUB CHLKY IP, SLI TO V/ OOLITIC(SMLL TO MED OOLITES) DLL YEL FLUOR. NO VIS POR, W/ TRS CHERT WHT TO LT GRY OPQUE

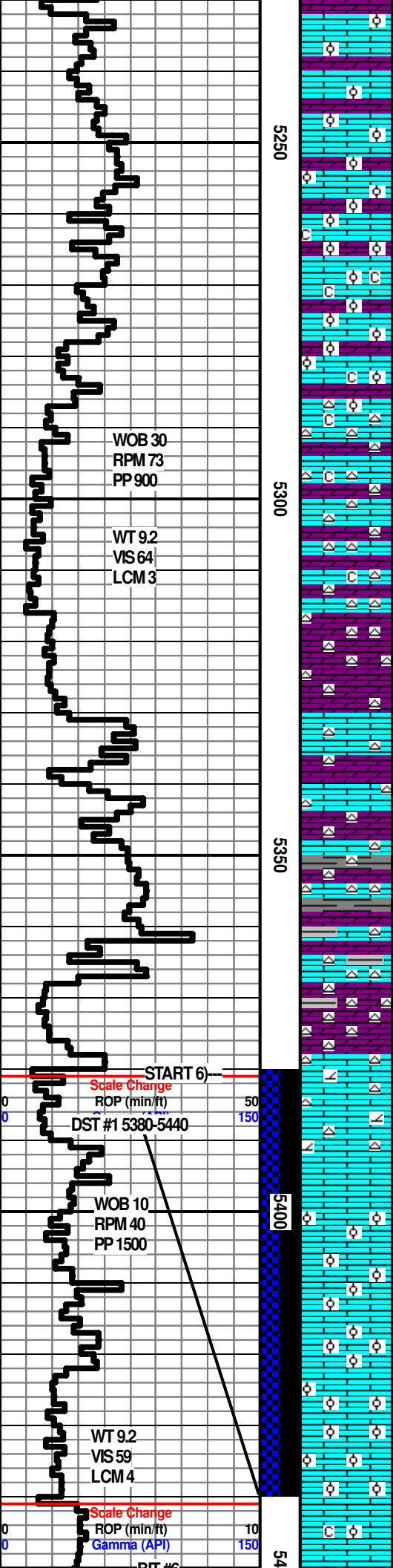
5122' -5162' LS- TRS WHT TO CRM CHLK SUB CHLKY SUB SUCRO TO PCKSTN, TRS V/ OOLITIC IP (SMLL TO MED) DLL YEL FLUOR, NO VIS POR

5162' -5194' LS- TRS WHT TO CRM CHLK SUB CHLKY SUB SUCRO TO PCKSTN, TRS V/ OOLITIC IP (SMLL TO MED) DLL YEL FLUOR, NO VIS POR, SLI DOLO IP'S

5194'-5223' LS- ABDT WHT TO CRM CHLK, LT GRY TO GRYSHTN TN V/ TO EXTRMLY OOLITIC(SML, MED TR LRG OOLITES), SUB SUCRO SUB CHLKY, DLL YEL FLUOR IP, NO CUT, NO VIS POR

5223' -5223' DOL LS GRDNG TO DOLO GRYSHTN TO TN SUB





5223-5252 DOLO LS GRDNG TO DOLO, GRYSH TN TO TN, SUB SUCRO TO SUCRO, PHNTM OOLITIC IP, DLL GLDN YEL FLUOR, NO CUT, ABDT PR FR TO EXCEL INTER-XLN PP & MICRO PP POR

5232-5287' LS TO DOLO LS & TRS DOLO, LT GRY TO GRYSH TN, CRYPTO-V/F-XLN, SUB SUCRO IP, SUB CHLKY IP, SLI TO EXTRMLY OOLITIC (SMILL TO MED OOLITES) TRS SUB LITHO SILICEOUS, V/ DLL YEL FLUOR IP, SCATT TR PR TO FR MICRO PP POR, POSS INTER-XLN POR

5287-5316' LS & DOLO INTERBEDDED & GRADATIONAL, CRYPTO-V/FN-XLN, ABDT CRM CHLK IP. EXTRMLY ABDT FRESH TO SLI WEATHERED CHERT, LT GRY TO OPQUE, DLL YEL FLUOR IP, HVY TR PR TO FR MICRO PP POR & POSS INTER-XLN POR

5316-5331' DOLO SLI LIMY IP, TN TO DK TN, SUB SUCRO TO SUCRO, TR PHNTM OOLITES, V/DLL YEL FLUOR, NO CUT, PR TO FR MICRO PP & PROB INTER-XLN POR, W TR CHERT FRESH TO SLI WEATHERED WHT LT GRY OPQUE

5331-5354' INTERBED LS & DOLO 1. LS- LT GRY TO TN, CRYPTO-V/F-XLN TO TO SUCRO SUB SUCRO, TRS WHT CHERT, DLL YEL FLUOR, NO CUT, TR PR MICRO PP POR 2. DOLO- LT GRY-F-XLN TO SUCRO SUB SUCRO, TRS WHT MED TO COARSE DOLO XLS FRGS, NO CUT, NO VIS POR, MED TODK GRYSH IP

5367-5380' INTERBED DOLO & LS SIMILAR TO 5331-5354' W/ EXTRMLY ABDT WHT LT GY CHERT FRESH TO SLI WEATHERED, W/ ABDT SH MED TO DK GRY SPL. INTERY, TR GREEN SH, LS & DOLO HAS PR TO FR MICRO PP POR, NO SHOW

REACH CORE POINT #6 @ 5380' @ 1:30 AM 3/28/2020

START CORE #6 @ 5380' @ 10:40 AM 3/29/2020

5380-5393' LS, LT GRY TN MARBLED CRYPTO TO V/V/FN-XLN SLI DOLO IP, SUB SUCRO PCKSTN, NO FLUOR TO TR DLL YEL FLUOR, NO CUT NO VIS POR, W/ TRS FRACT CHERT W/ DOLO TO LMY INFRACTURES

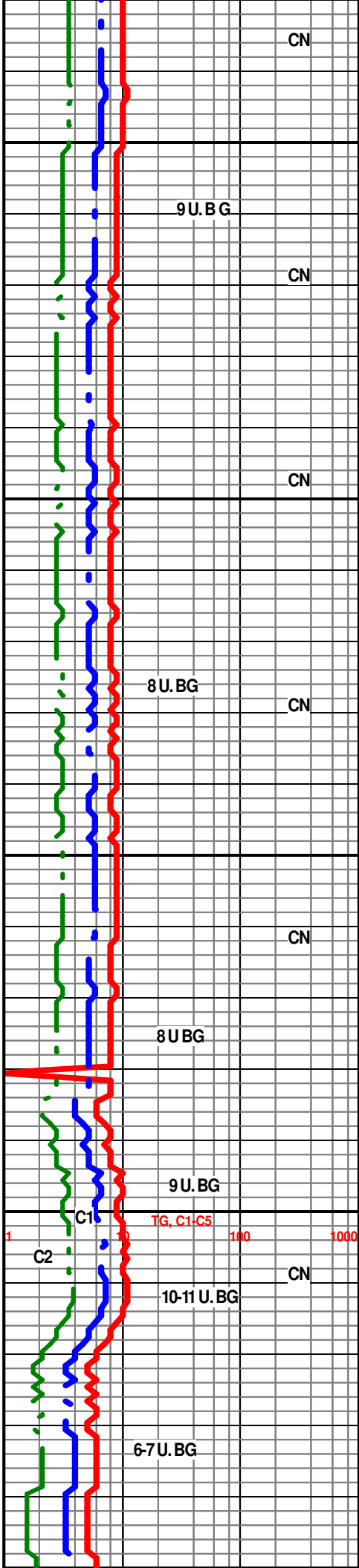
5393' - 5400 LS- TN CRYPTO TO V/V/FN-XLN SLI DOLO IP, SUB SUCRO PCKSTN, V/V DLL YEL FLUOR, NO CUT, NO VIS POR

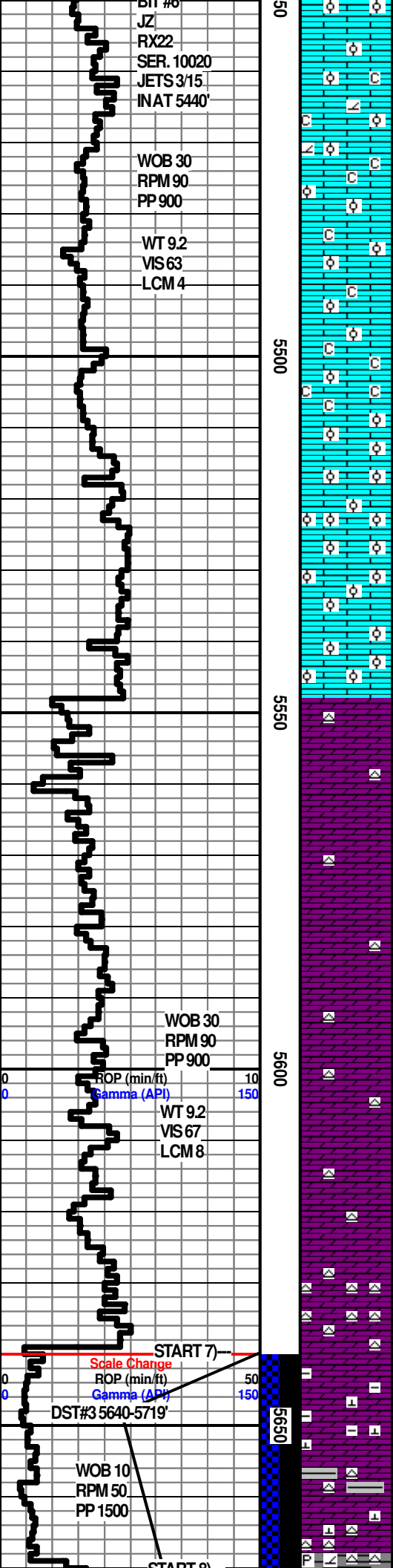
5400-5422' LS TAN, CRYPTO-V/V/ FN -XLN, EXTRMLY OOLITIC MTRX, SUB SUCRO, V/V/DLL YEL FLUOR, NO CUT, NO VIS POR IP TO SCATTERED TRS V/ P MICRO PP POR

5422' 5440 LS SIMILAR TO 5400-5422' W/ INCREASE TO PR TO FR MICRO PP POR

CORE#6 COMPLETE @ 11:30 PM 3/29/2020

RESUME DRILLING 8:48 AM 3/31/2020





5440-5454' LS TAN , CRYPTO-VV/ FN -XLN, EXTRMLY OOLITIC MTRX, SUB SUCRO, VV/DLL YEL FLUOR, NO CUT, NO VIS POR IP TO SCATTERED PR TO FR MICRO PP POR

5454-5471' LS W/TRS DOLO WHT TO CRM CHLK, TN TO TNISH GRYCRYPTO-VV/ FN -XLN, SUB SUCRO, ABLT OOLITIC, DLL YEL FLUOR, NO CUT, NO VIS POR

5471-5514' LS-ABDT WHT TO CRM CHLK W/ CHLKY OOLITES, LT TAN TO TN SUB SUCRO TO PCKSTN, ABLT OOLITIC, DLL YEL YEL FLUOR, NO CUT, TRS PR TO FR MICRO PP POR

5514-5548' LS- LT TN TO LT GRY, CRYPTO TO VV/ FN -XLN, V/ TO EXTRMLY OOLITIC, TR SUB LITHO, DLL LT YEL FLUOR, NO CUT, NO VIS POR

VIOLA 5548' -2219'

5548' TO 5583' DOLO, LT GRY TO TN , ULTRA TO VV/ FN, V/ SUCRO, GLDN YEL FLUOR, NO CUT, TR WHT MED TO COARSE DOLO XLS & FRAGS, V/ F SUCRO HAS PR MICRO PP POR & PR TO GD INTER-XLN POR W/ TRS WHT TO LT GRY OPQUE CHERT

5583'-5627 1.(FASTER DRILLING)' DOLO, LT GRY TO TN , ULTRA TO VV/ FN, V/ SUCRO, GLDN YEL FLUOR, NO CUT, TR WHT MED TO COARSE DOLO XLS & FRAGS, V/ F SUCRO HAS PR MICRO PP POR & PR TO GD INTER-XLN POR , V/ SLI TRS WHT TO LT GRY OPQUE CHERT

5583'-5627 (SLOWER DRILLING) DOLO, SLI CALC IP, GRYISH TN , CRYPTO-VV/ FN, V/ SUCRO, GLDN YEL FLUOR, NO CUT, NO VIS POR ,

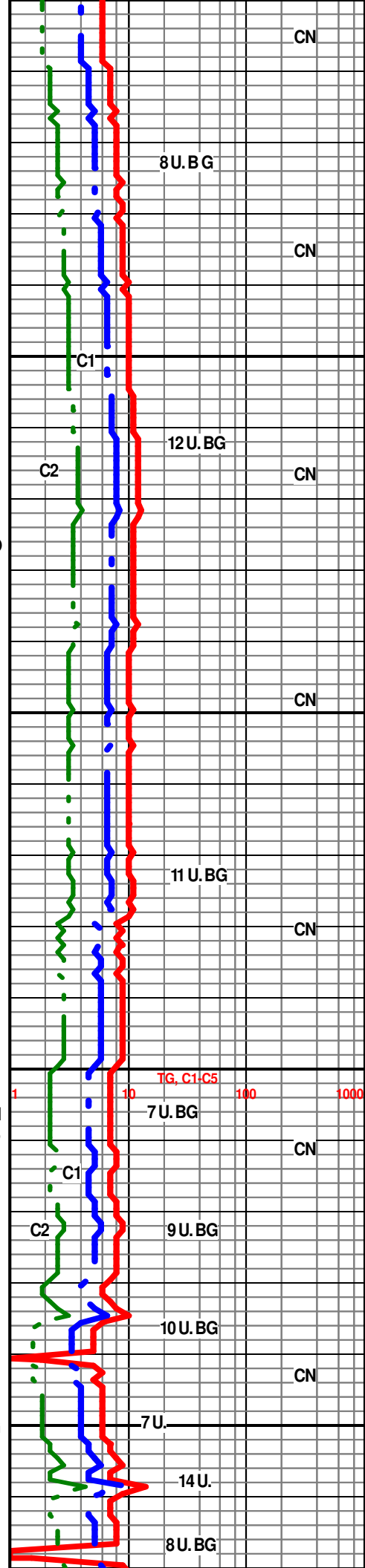
5627-5640' INTERBEDDED DOLO, LT GRY TO TN , VV/ FN, V/ SUCRO, GLDN YEL FLUOR, NO CUT, TR WHT MED TO COARSE DOLO XLS & FRAGS, V/ F SUCRO HAS PR TO EXCEL INTER-XLN POR W/HVY TRS WHT SLI TO WEATHERED LT GRY OPQUE CHERT

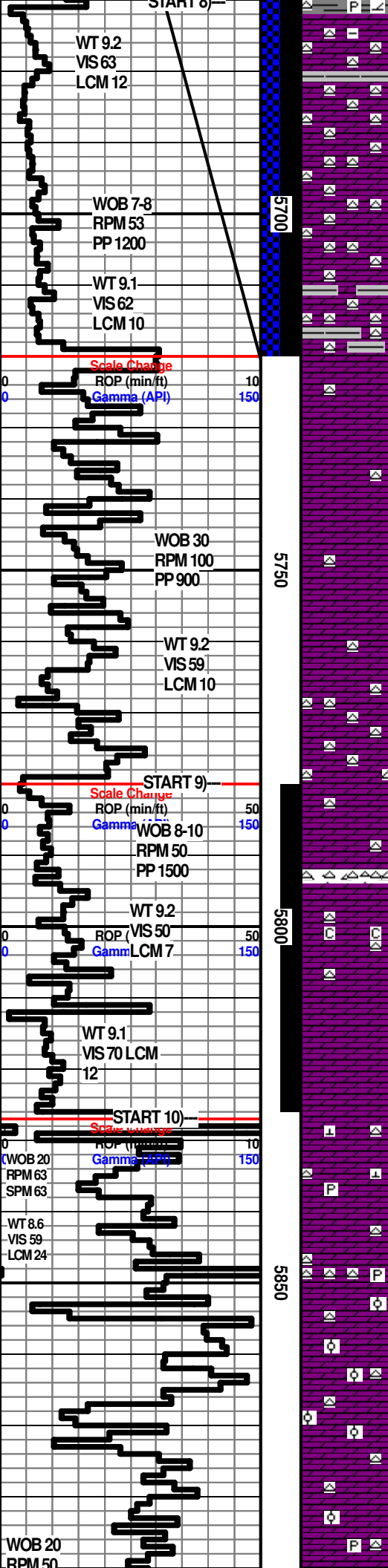
REACHED CORE POINT #7 @9:15 PM 3/31/2020

START CORE #7 @9:17 AM 4/01/2020 @5640'

5640-5658' DOLO TR LS, GRYISH TN TO TN, CRYPTO TO VV/ FN -XLN SUCRO IP, HVY TRSH LAMINATIONS & GREEN VUG FILL, V/ FN DOLO XLS IN VUGS, DLL GLDN YEL FLUOR, SLI TO EXCEL VUG POR TO NO POR IP TO TR PR TO FR MICRO PP TO INTER-XLN POR BETWEEN VUGS/ FRM 5658-5668' SIMILAR TO 5640-5658' W/ ABLT BLU GRY CHERT & GREEN SH FILL

CORE JAMMED @5670' @12:28 PM 4/01/2020





START CORE #8 @5670' @10:30 PM 4/01/2020

5670-5671' INTERBED MARBLED GREEN SH, DOLO, BLU GRAY CHERT W/ DISS PYRIP

5671-5717-1. (FAST DRILLING) DOLO LT TN TN MOTT, CRYPTO-VV/FN XLN SUB SUCRO IP, REPLCD OOLITES, ABTD RE-XLD FOSS & CHERT & DOLO, DLL GLDN YEL FLO NO VS POR IPTO ABTD SMLL VUG POR W/ WHT DOLO XLS & FRGS, FR PP MICRO PP & INTER-XLN POR IP W/ WHT GRAY BLU OPQUE CHERT

2. (SLOW DRILLING) - DOLO TN GRAYISH TN, CRYPTO TO VV/FN-XLN, PCKSTN, DLL GLDN YEL FLO, NO CUT CHERT NODULES BLU GRAY OPQUE

5717-5719- THIN SCATTERED SH, LT TO MED GRAY TO GREENISH, SLI TO FRLY DOLO IP, BLUE CHERT

CORE JAMMED @5719' @ 4:01 AM 4/02/2020

5719-5780' (FAST DRILLING) DOLO-TAN FN TO VV/FN-XLN TO WHT CLEAR, MED TO COARSE DOLO XLS, V/ SUCRO TO EXTRMLY SUCRO, DLL GLDN YEL FLUOR, NO CUT, HVY TRS FR GD TO EXCEL PP MICRO PP INTER-XLN POR, TR LT GRAY BLU OPQUE CHERT

5719-5780' (SLOW DRILLING) DOLO- TN CRYPTO TO VV/FN-XLN SUB SUCRO PCKSTN, DLL GLDN YEL FLUOR, NO CUT, NO VIS POR W/ TR TO HVY TR LT GRAY OFF WHT TO WHT OPQUE CHERT

REACHED CORE #9 POINT 5780' @ 2:29 AM 4/03/2020

START CORE #9 @ 5780' @ 4:11 PM 4/03/2020

5780-5811 (FASTER DRILLING) 1. DOLO- TN GRAYISH IP, CRYPTO-XLN TO SUB SUCRO ABTD WHT CLR, MED TO COARSE DOLO XLS & FRGS, NO CUT, GLDN YEL FLUOR, TRS TO EXTRMLY VUG POR W/ DOLO XLS, TR PR MICRO PP POR, QUEST. PERM

5794- CHERT NODULES GRAY TO BLuish GRAY WHT

5780-5811' 2. (SLOW DRILLING) DOLO-TN GRAY IP, CRYPTO TO VV/FN-XLN PCKSTN, NO CUT, SLI TR PR MICRO PP POR, TR DOLO CHLK WHT

CORE #9 JAMMED @ 5811' @ 10:00 PM 4/03/2020

START DRILLING CORE #10 @ 5811' 6:25 AM 4/04/20

5811-5826' SIMILAR TO 5780-5811' EXCEPT NO CHERT, NO DOLO CHLK

CORE #10 END @ 5826' @ 8:36 AM 4/04/20 LOST CIRC.

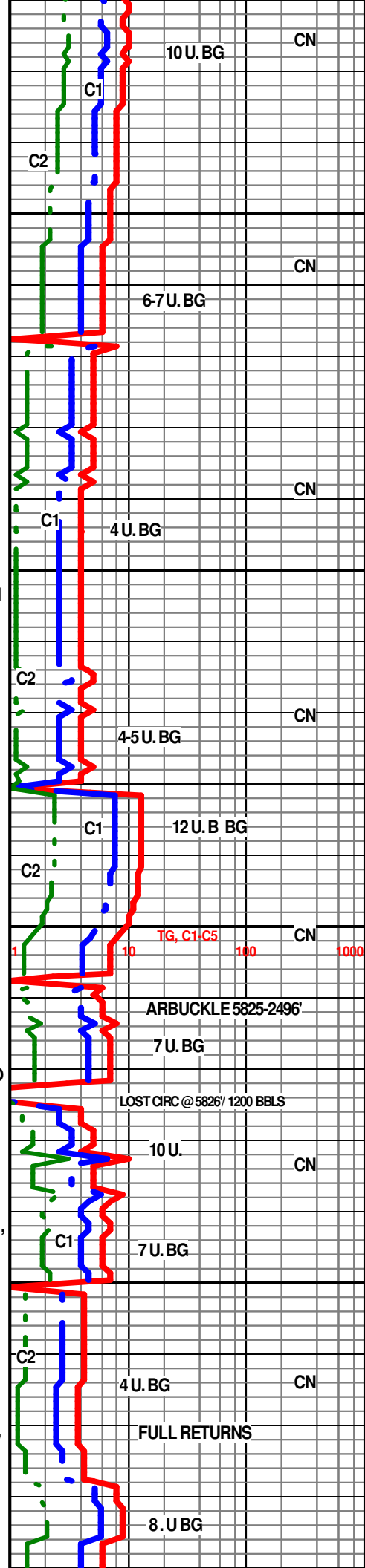
5826-5850' DOLO- TAN SUB SUCRO TO ABTD SUCRO MED TO COARSE WHT DOLO XLS & FRAGS W/ TR PYR CLSTRS, SLI CALC IP, DLL GLDN YEL FLUOR, NO CUT, ABTD PR FR GD TO EXCEL PP MICRO PP & INTER-XLN POR, PROB GOOD VUG POR, TR WHT GRAY OPQUE TRNSLCNT CHERT IP,

REACH CORE POINT #11 @ 5850' / 9:45 AM / 4 / 05 / 2020

CORE 11 LOST CIRC AFTER DRILLING ONE INCH. BUILDING VOLUME/DEVILBLISS MOVE CORE 11 TO NEXT CORE POINT

RESUME CONVENTIONAL DRILLING @ 5:00 AM 4/07/20 OF 5850'

5850-5900' DOLO-TAN SUB SUCRO TO ABTD SUCRO MED TO COARSE WHT DOLO XLS & FRAGS W/ TR PYR, SLI CALC IP,



10 U. BG

CN

6-7 U. BG

CN

4 U. BG

CN

4-5 U. BG

CN

12 U. B BG

CN

ARBUCKLE 5825-2496'

7 U. BG

LOST CIRC @ 5826' 1200 BLS

10 U.

CN

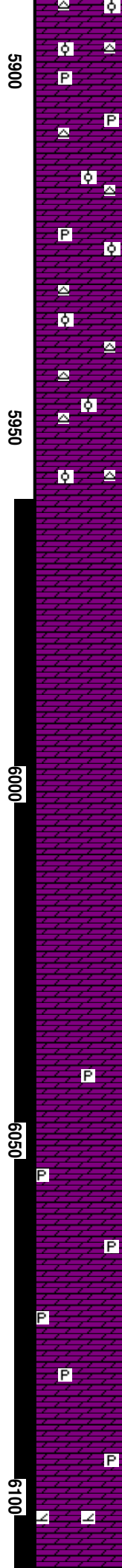
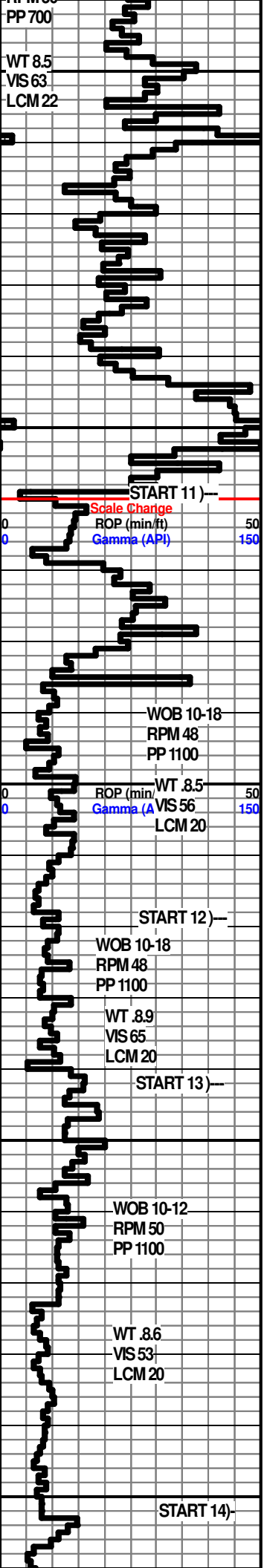
7 U. BG

4 U. BG

CN

FULL RETURNS

8 U. BG



DLL GLDN YEL FLUOR, NO CUT, ABDT PR FR GD PP MICRO PP & INTER-XLN POR, PROB FR VUG POR, TR WHT GRY OPQUE TRNSLCNT OOLITIC CHERT IP

5900-5944' DOLO-TAN SLI CALC SUB SUCRO TO ABDT SUCRO MED TO COARSE WHT TO CLR DOLO XLS & FRAGS W/TR PYR IP, SLI CALC IP, DLL GLDN YEL FLUOR, NO CUT, ABDT PR FR GD TO EXCEL PP MICRO PP & INTER-XLN POR, PROB VUG POR, TR WHT OPQUE OOLITIC CHERT IP,

5945-5959' DOLO- TN GRAYISH TN, CRYPTO TO V/V/FN-XLN SUB SUCRO PCKSTN, DLL YEL FLUOR, NO CUT, NO VIS POR, TRS CHERT WHT OPQUE TRS OOLITIC IP

REACH CORE #11 POINT @5959 @ 4:02 PM 4/07/20

START CORE #11 @ 5959' @ 7:30 AM 4/08/20

5959' TO 6019' DOLO INTERBD 1. LT GRYTAN IP, SUB SUCRO TO SUCRO PCKSTN, SMLL TO COARSE WHT DOLO XLS & FRGMNTS, DLL YEL FLUOR, NO CUT, SLI TO EXTRM SMLL TO LRG VUGS W/ FN TO COARSE DOLO WHT XLS, ABDT PR FR TO GD TR EXCEL VUG POR, IN BETWEEN VUGS PR FR PP & MICRO PP POR, QUEST PERM

5959'-6019' 2. DOLO- LT GRY CRYPTO TO V/V/FN-XLN, PCKSTN W/ TRS SUB LITHO, DLL YEL FLUOR, NO CUT, NO VIS POR TO SLI TRS V/PR MICRO PP POR IP

END CORE #11 @ 6019' @ 9:50 PM 4/08/2019

START CORE # 12 @ 6019 @ 9:36 AM 4/09/20

6019-6037' INTERBEDDED DOLO LT GRY TAN CRYPTO TO V/V/FN SUCRO TR SUB SUCRO PCKSTN, TRS FN WHT DOLO XLS FRGS, DLL YEL FLUOR, TR PR FR GDSMLL VUG POR, QUEST. PERM

6037'-6042'- INTERBEDDED DOLO SIMILAR TO 6019-6037' W/ SCATTERED THIN MED TO LRG VUGS W/ TR TO ABDT SMLL TO LRG DOLO XLS TO 1 1/2"

END CORE #12 JAMMED @ 6042' @ 1:20 PM 4/9/20

START CORE #13 @ 6042' @ 12:45 AM 4/10/20

6042' 6099' 1. INTERBED DOLO- LT GRY CRYPTO TO V/V/FN-XN, SUB SUCRO TO SUCRO IP, DLL YEL FLUOR, SCAT THIN LAM DISS PYR, SMLL MED TO FINGERTIP SIZED VUGS FILLED W/COARSE WHT DOLO XLS, NO CUT

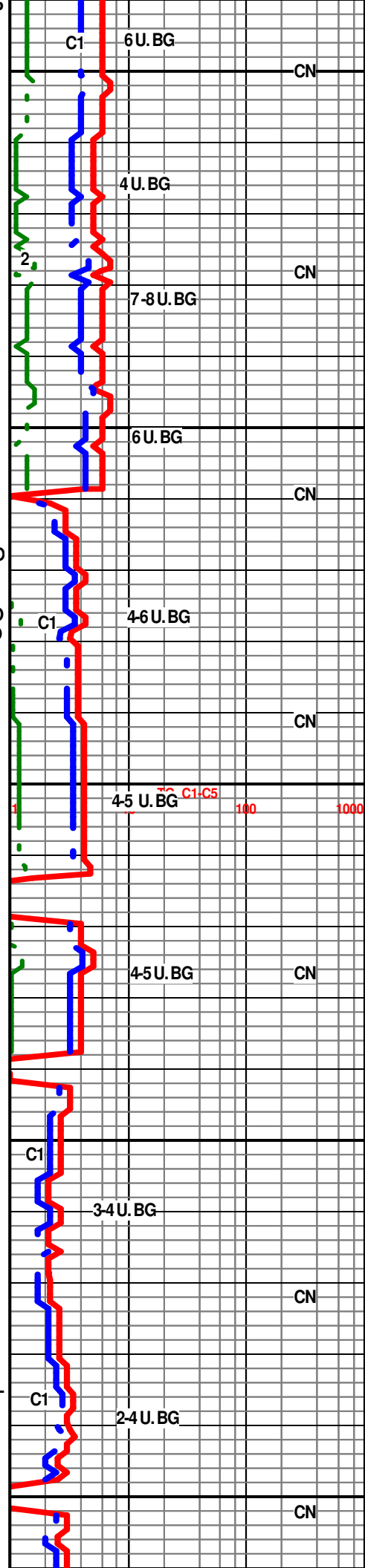
6042-6099-2. DOLO LT GRY, CRYPTO TO V/V/FN-XLN PCKSTN, DLL YEL FLUOR, DNS HRD TIGHT, NO VIS POR

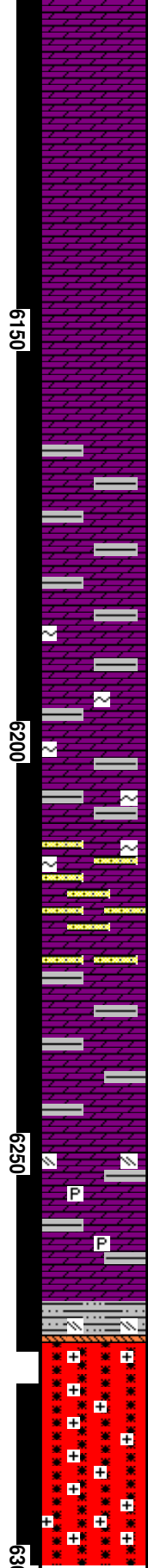
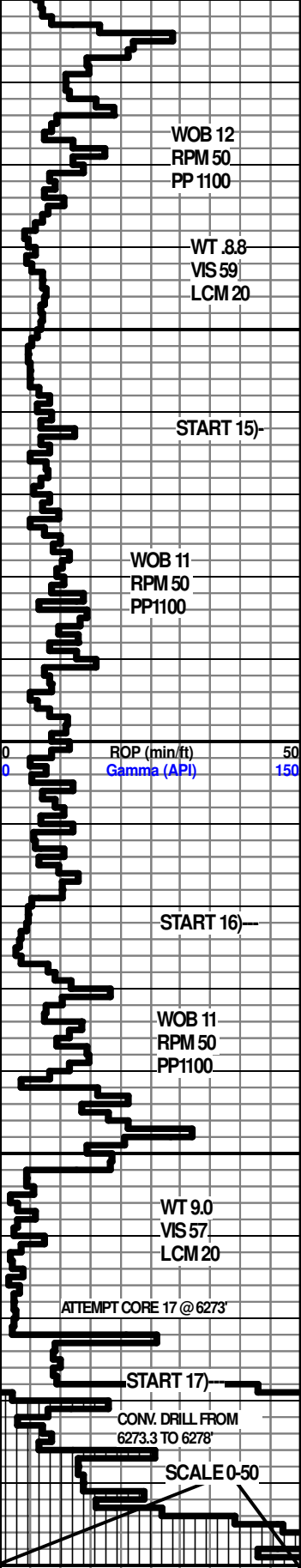
6099-6102' DOLO-LT GRY SUB SUCRO TO SUCRO PCKSTN, DLL YEL FLUOR, TRS PR TO FR PP & MICRO PP POR, QUEST PERM

END CORE # 13 @ 6102' @ 12:18 PM 4/10/20

START CORE #14 @ 6102' @ 2:10 AM 4/11/20

6102-6138' 1. INTERBED DOLO LT GRY, CRYPTO TO V/V/FN-XLN SUB SUCRO PCKSTN TR SMLL MED VUGS SCATT TR





6102-6138' 2. DOLO GRY -CRYPTO-VV/FN-XLN PCKSTN DLL YEL FLUOR NO CUT NO VIS POR

6138-6143' DOLO LT GRY SCATT TN LT BRN, CRYPTO-XLN SUB SUCRO DLL YEL FLUOR, NO CUT, SCATT TRS PR MICRO PP POR IP, V/ QUEST PERM

6143-6162' DOLO- LT GRY CRYPTO TO VV/FN-XLN PCKSTN, DLL YEL FLUOR, NO CUT ,NOVIS POR

END CORE # 14 @ 6162' @ 12:02 PM 4 / 11/ 2020

START CORE #15 @ 6162' @ 11:22 PM 4 / 11/ 2020

6162' - 6183.5' DOLO- LT GRY TN IP CRYPTO TO VV/FN-XLN SUB SUCRO PCKSTN, ABDT LT GRY SH LAMINATIONS THRU, DLL YEL FLUOR, NO CUT , NO VIS POR

6183.5' -6184.5' DOLO , LT GRY TN IP, SUB SUCRO TO SUCRO PCKSTN IP, ABDT GRY SH LAMINATIONS, DLL YEL FLUOR, TRS PR FR TO FR PP MICRO PP & INTER-XLN POR

6184.5' - 6213.5' DOLO - LT GRY TN -CRYPTO-XLN PCKSTN SUB SUCRO, ABDT GRY SH LAM, SCATT TR GLAUC, DLL YEL FLUOR, SCATT TRS PR SM VUG , PP MICRO PP, INTER-XLN POR, QUEST PERM

6213.5' - 6218' SNDY DOLO TO DOLO QUTZ SND- WHT TN GREEN IP V/ FN FN GRN, S-ANG S-RND TO RND GRNS, PR SRT, FRIABLE IP, GLAUC LAM, DLL YEL FLUOR, NO VIS POR

6218' - 6222' DOLO LT GRY TN, VV/FN TO MED TR COARSE V SUCRO W/ TRS TO V/ ABDT QUTZ GRNS FN TO MED TO COARSE, S-ANG S-RND TO RND, DLL LT YEL FLUOR, NO CUT, ABDT PR FR TO EXCEL SM VUG, PP, MICRO PP & INTER-XLN POR

END CORE #15 @ 6222' @ 8:27 AM 4 / 12/ 2020

START CORE #16 @ 6222' @ 9:00 PM 4 / 12/ 2020

6222-6227' DOLO LT GRY TN, VV/FN TO MED TR COARSE V/ SUCRO W/ TRS TO V/ ABDT QUTZ GRNS FN TO MED TO COARSE, S-ANG S-RND TO RND, DLL LT YEL FLUOR, NO CUT, ABDT PR FR TO EXCEL SM VUG, PP, MICRO PP & INTER-XLN POR

6227' -6252' DOLO- TANISH LT GRY TO SHLY, VV/FN-XLN SUB SUCRO TO SUCRO, V/ DLL YEL FLUOR, NO CUT, TR SMLL VUG POR TO TR PR PP TO MICRO PP POR

6252' 6267.5' DOLO- LT GRY- W/ WHT XLS FN TO COARSE UP TO 1 1/2', SUCRO, V/ DLL YEL FLUOR NO CUT, NO VIS POR, SLI SILTY & OR SHLY, HVY TRS TO ABDT DISS PYR

6267.5' - 6272' SH- MED GRY GREENSHIP, EXTRMLY SILTY SLI DOLO & OR GYP,

6272-6273' ANHY & OR GYP- WHT TO GY- FN TO COARSE XLS

END CORE #16 @ 6273' @ 4:45 AM 4 / 13 / 2020

ATTEMPT CORE 17 @ 6273' AND DRILLED 3" IN 72 MIN. RECOV. 3' CORE TO 6273.3' (CORE PIECES FROM THIS ATTEMPT AND IN THE PICS WILL BE BOXED WITH THE NEXT CORE AT THE TOP OF CORE)

6273.3'-6278' GRANITE- ORANGE GRY FLDS PR W/ TRS QURTZ, TR BIOTITE, NO FLUOR, NO CUT, NO VIS POR (DRILL CUTTINGS)

START CORE #17 @ 6278' @ 12:35 AM 4 / 15/ 2020

6278'-6300' GRANITE- FELDSPAR ORANGE W/ TRACES BLACK MINERALS

END CORE # 17 @ 6300' @ 3:57 AM 4 / 16 / 2020

