

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**Iron Orchard
WellSight Systems**
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Iron Orchard
 API: 15-047-21673-00-00
 Location: 400' FSL, 2081' FWL (Sec 15.TWP 26S R16W)
 License Number: 35920
 Spud Date: 10/17/2023
 Surface Coordinates: 37.777885, -99.060931

Region: Edwards
 Drilling Completed: 10/24/2023

Bottom Hole Same As Surface
 Coordinates:
 Ground Elevation (ft): 2081
 Logged Interval (ft): 3650 To: R.T.D
 Formation: Arbuckle
 Type of Drilling Fluid: Chemical "Andys Mud"

K.B. Elevation (ft): 2088
 Total Depth (ft): 4850

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

OPERATOR

Company: NEC Operating Kansas
 Address: 542 Silicon Dr Suite 100
 South Lake TX 67092

GEOLOGIST

Name: Keaton Jones
 Company: Rockhound Petroleum, LLC
 Address: 255 NE 30th
 St. John KS 67576

Well Tops Comparison

Lease: Iron Orchard		Lease: Norweigen		Lease: Salsler 1-15		Lease: Wood E 1-15	
KB	2088	KB	2107	KB	2074	KB	2081
Formation	Top Datum	Strat Comp Formation	Top Datum	Strat Comp Formation	Top Datum	Strat Comp Formation	Top Datum
Anhy	1078 1010	-1097 Anhy	2107	-1064 Anhy	2074	-1071 Anhy	2081
Heebner	3787 -1699	4 Heebner	3810 -1703	-4 Heebner	3769 -1695	-4 Heebner	3776 -1695
toronto	3808 -1720	3 toronto	3830 -1723	-6 toronto	3788 -1714	-5 toronto	3796 -1715
douglas	3820 -1732	11 douglas	3850 -1743	4 douglas	3810 -1736	3 douglas	3816 -1735
Brown L	3934 -1846	3 Brown L	3956 -1849	-7 Brown L	3913 -1839	-2 Brown L	3925 -1844
LKC	3950 -1862	5 LKC	3974 -1867	-6 LKC	3930 -1856	-1 LKC	3942 -1861
lansing "B"	3970 -1882	2 lansing "B"	3991 -1884	-6 lansing "B"	3950 -1876	0 lansing "B"	3963 -1882
Lansing "F"	4026 -1938	1 Lansing "F"	4046 -1939	-6 Lansing "F"	4006 -1932	-2 Lansing "F"	4017 -1936
lansing "G"	4044 -1956	6 lansing "G"	4069 -1962	-7 lansing "G"	4023 -1949	-1 lansing "G"	4036 -1955
Lansing "H"	4086 -1998	14 Lansing "H"	4119 -2012	0 Lansing "H"	4072 -1998	4 Lansing "H"	4083 -2002
Lansing "I"		Lansing "I"	4138 -2031	Lansing "I"	4096 -2022	Lansing "I"	4105 -2024
Lansing "J"	4127 -2039	8 Lansing "J"	4154 -2047	0 Lansing "J"	4113 -2039	2 Lansing "J"	4122 -2041
BKC	4246 -2158	15 BKC	4280 -2173	5 BKC	4237 -2163	5 BKC	4244 -2163
Cherokee SD	2088	-19 Cherokee SD	2107	14 Cherokee SD	2074	7 Cherokee SD	2081
Miss	4412 -2324	23 Miss	4454 -2347	14 Miss	4412 -2338	7 Miss	4412 -2331
Misner	4445 -2357	59 Misner	4523 -2416	-4431 Misner	2074	12 Misner	4450 -2369
Viola	4524 -2436	38 Viola	4581 -2474	-4510 Viola	2074	-4517 Viola	2081
Simpson	4652 -2564	Simpson	N/A	-4638 Simpson	2074	-4645 Simpson	2081
Arbuckle	4741 -2653	Arbuckle	N/A	-4727 Arbuckle	2074	-4734 Arbuckle	2081

NEC Operating Kansas

Iron Orchard

Casing Size:	5.5	API 15.5#	Guide Shoe	1.1	Plugged Back Total Depth:	4823.60	KB	GL
RTD:	4850	LTD:	4851	Casing TD	4836	FT off LTD:	15	Elevation: 2088 2081


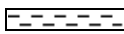

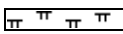
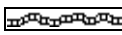



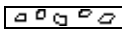


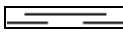
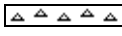


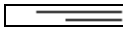
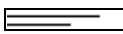



JT. #	Length	Csg. Tally	Top of Jt.	JT. #	Length	Csg. Tally	Top of Jt.	JT.#	Length	Csg. Tally	Top of Jt.
SH JT	10.30	11.40	4824.60	49	42.06	2083.95	2752.05	99	42.15	4187.61	648.39
1	41.61	53.01	4782.99	50	42.07	2126.02	2709.98	100	42.14	4229.75	606.25
2	42.11	95.12	4740.88	51	42.10	2168.12	2667.88	101	42.13	4271.88	564.12
3	42.12	137.24	4698.76	52	42.09	2210.21	2625.79	102	42.06	4313.94	522.06
4	42.11	179.35	4656.65	53	42.05	2252.26	2583.74	103	41.74	4355.68	480.32
5	42.05	221.40	4614.60	54	42.08	2294.34	2541.66	104	42.08	4397.76	438.24
6	42.03	263.43	4572.57	55	42.10	2336.44	2499.56	105	42.07	4439.83	396.17
7	42.04	305.47	4530.53	56	42.11	2378.55	2457.45	106	42.05	4481.88	354.12
8	42.08	347.55	4488.45	57	42.09	2420.64	2415.36	107	42.13	4524.01	311.99
9	42.10	389.65	4446.35	58	42.07	2462.71	2373.29	108	42.12	4566.13	269.87
10	42.08	431.73	4404.27	59	42.06	2504.77	2331.23	109	42.05	4608.18	227.82
11	42.06	473.79	4362.21	60	42.07	2546.84	2289.16	110	41.47	4649.65	186.35
12	42.05	515.84	4320.16	61	42.11	2588.95	2247.05	111	42.08	4691.73	144.27
13	42.09	557.93	4278.07	62	42.12	2631.07	2204.93	112	42.10	4733.83	102.17
14	42.07	600.00	4236.00	63	42.08	2673.15	2162.85	113	42.09	4775.92	60.08
15	42.11	642.11	4193.89	64	42.12	2715.27	2120.73	114	42.12	4818.04	17.96
16	42.09	684.20	4151.80	65	42.04	2757.31	2078.69	PUP	10.70	4828.74	7.26
17	42.10	726.30	4109.70	66	42.12	2799.43	2036.57	LJ	10.00	4838.74	-2.74
18	42.08	768.38	4067.62	67	42.11	2841.54	1994.46	115 TG	42.10	OUT	OUT
19	42.11	810.49	4025.51	68	41.66	2883.20	1952.80				
Marker	10.72	821.21	4014.79	69	42.13	2925.33	1910.67				
20	42.06	863.27	3972.73	70	42.12	2967.45	1868.55				
21	42.09	905.36	3930.64	71	42.07	3009.52	1826.48				
22	42.08	947.44	3888.56	72	42.08	3051.60	1784.40				
23	42.07	989.51	3846.49	73	41.74	3093.34	1742.66				
24	42.08	1031.59	3804.41	74	42.05	3135.39	1700.61				
25	42.10	1073.69	3762.31	75	42.07	3177.46	1658.54				
26	42.10	1115.79	3720.21	76	42.06	3219.52	1616.48				
27	42.09	1157.88	3678.12	77	42.10	3261.62	1574.38				
28	42.10	1199.98	3636.02	78	42.12	3303.74	1532.26				
29	42.11	1242.09	3593.91	79	42.13	3345.87	1490.13				
30	42.12	1284.21	3551.79	80	42.11	3387.98	1448.02				
31	42.10	1326.31	3509.69	81	42.12	3430.10	1405.90				
32	42.09	1368.40	3467.60	82	42.10	3472.20	1363.80				
33	42.10	1410.50	3425.50	83	42.06	3514.26	1321.74				
34	42.09	1452.59	3383.41	84	42.04	3556.30	1279.70				
35	42.10	1494.69	3341.31	85	42.11	3598.41	1237.59				
36	42.11	1536.80	3299.20	86	42.07	3640.48	1195.52				
37	42.09	1578.89	3257.11	87	42.04	3682.52	1153.48				
38	42.11	1621.00	3215.00	88	42.09	3724.61	1111.39				
39	42.09	1663.09	3172.91	89	42.11	3766.72	1069.28				
40	42.08	1705.17	3130.83	90	42.15	3808.87	1027.13				
41	42.10	1747.27	3088.73	91	42.13	3851.00	985.00				
42	42.09	1789.36	3046.64	92	42.10	3893.10	942.90				
43	42.05	1831.41	3004.59	93	42.06	3935.16	900.84				
44	42.10	1873.51	2962.49	94	42.14	3977.30	858.70				
45	42.09	1915.60	2920.40	95	42.13	4019.43	816.57				
46	42.10	1957.70	2878.30	96	42.12	4061.55	774.45				
47	42.08	1999.78	2836.22	97	41.78	4103.33	732.67				
48	42.11	2041.89	2794.11	98	42.13	4145.46	690.54				
Totals	2040.79	2794.11			2103.57	4144.36	690.54		735.38	4879.74	4836.00

Rotating Scratchers:	None										
Centralizers:	3973, 4025, 4109, 4326, 4404, 4469, 4572, 4656, 4740, 4824			Basket:	4699-4740 Floating						
Latch Down Insert Baffle	Top of Shoe JT	Packer Shoe:	Bottom of the Shoe Joint								
Equipment/Pipe Not Run:	Joint 115										

Comments

Survey 346' 3/4 degree - Survey 847' 3/4 Degree - Survey 1352' 1 Degree - Survey 1857' 1 Degree - Survey 2362' 1.5 Degree - Survey 2489' 1.5 Degree - Survey 2646' 2.5 Degree - Bit Trip, Ran in with Button to Straighten out hole.

ROCK TYPES

 Anhy	 Clyst	 Gyp	 Mrlst
 Bent	 Coal	 Igne	 Salt
 Brec	 Congl	 Lmst	 Shale
 Cht	 Dol	 Meta	 Shcol
			 Shgy
			 Sltst
			 Ss
			 Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

- Siltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

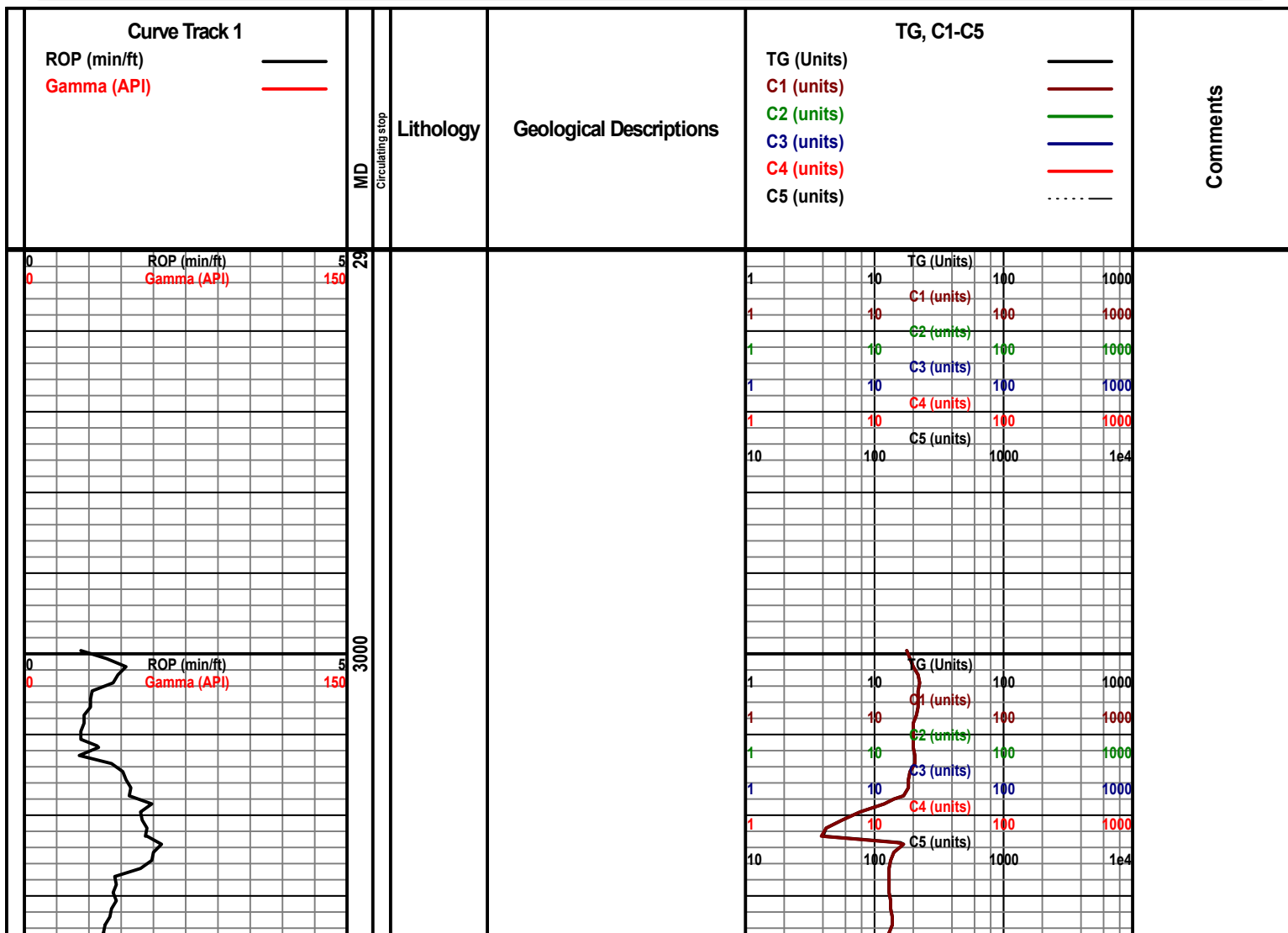
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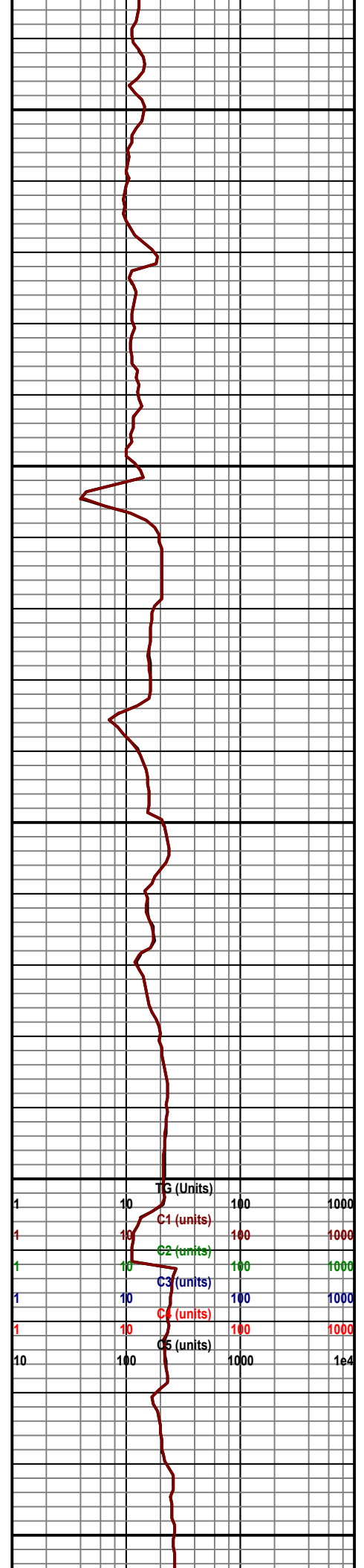
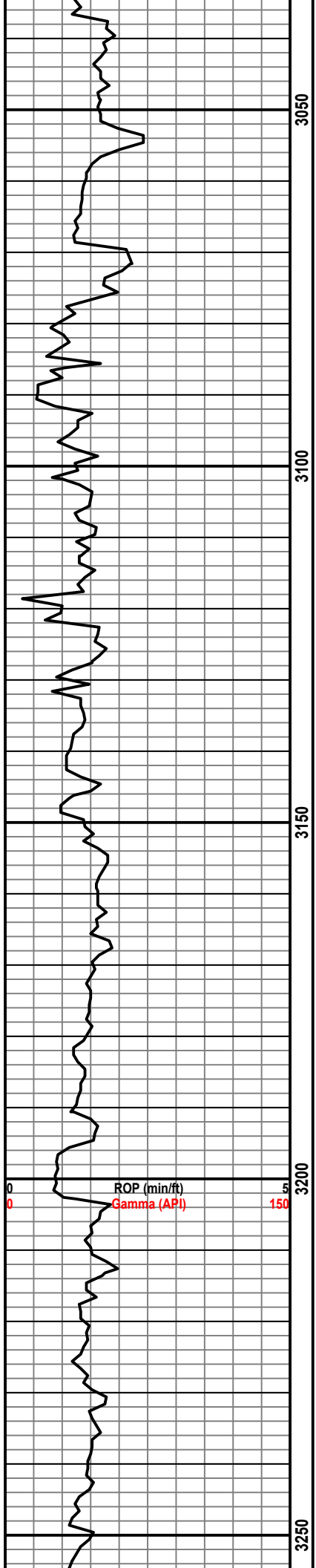
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- Dst 2
- Dst 4

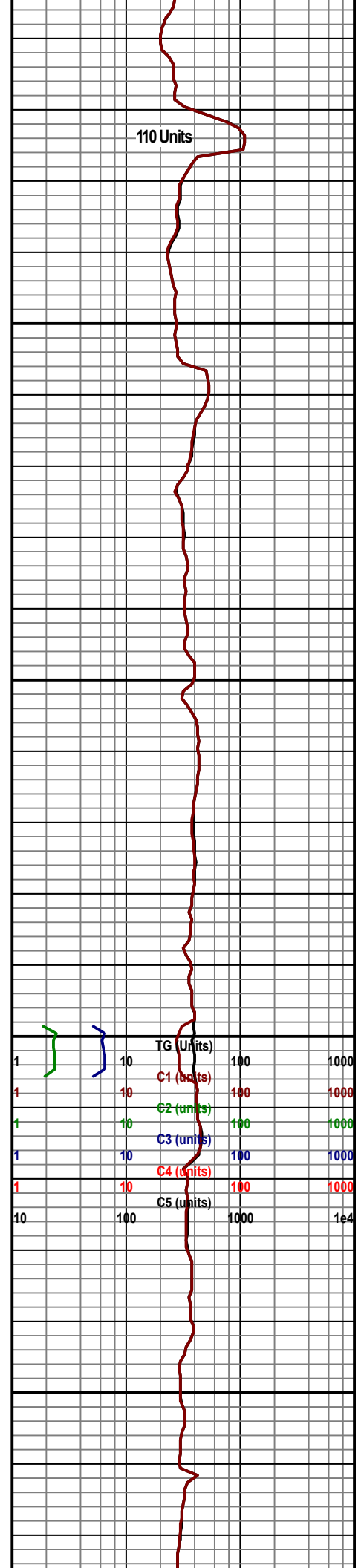
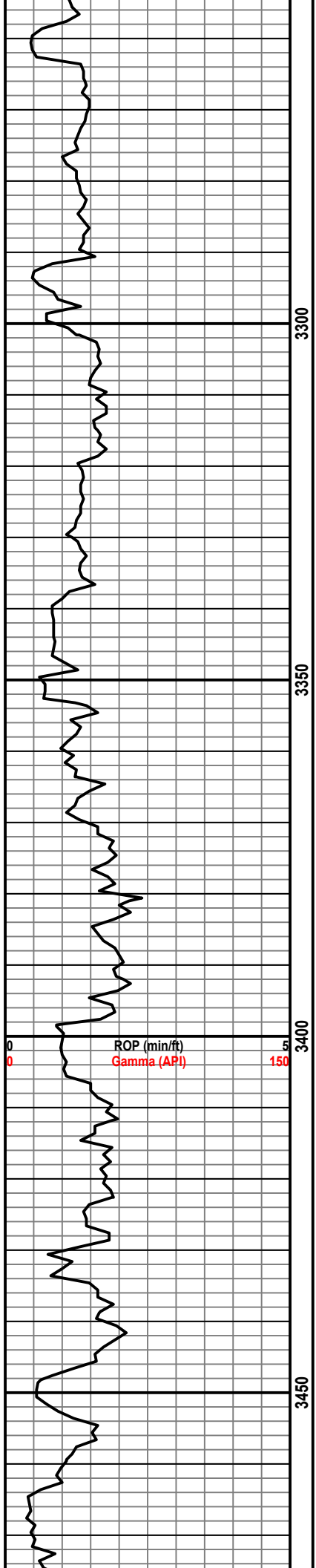
- Dst 3
- Dst

EVENT

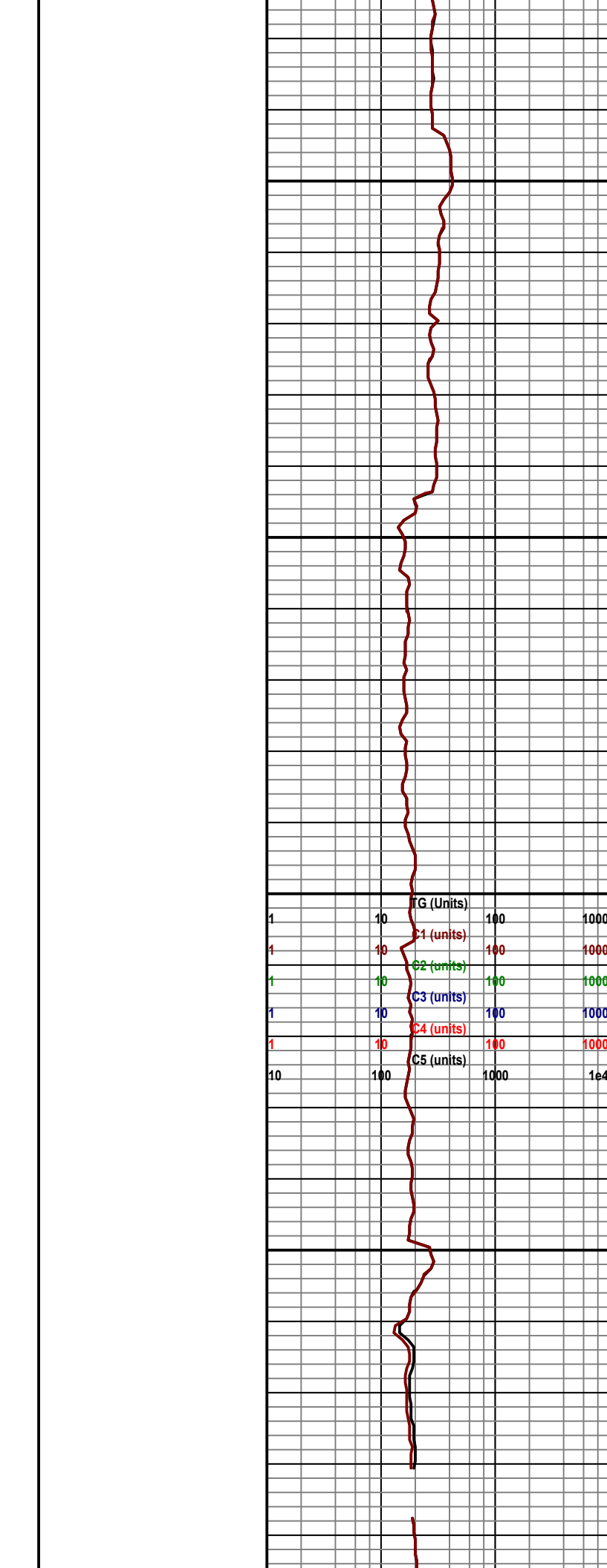
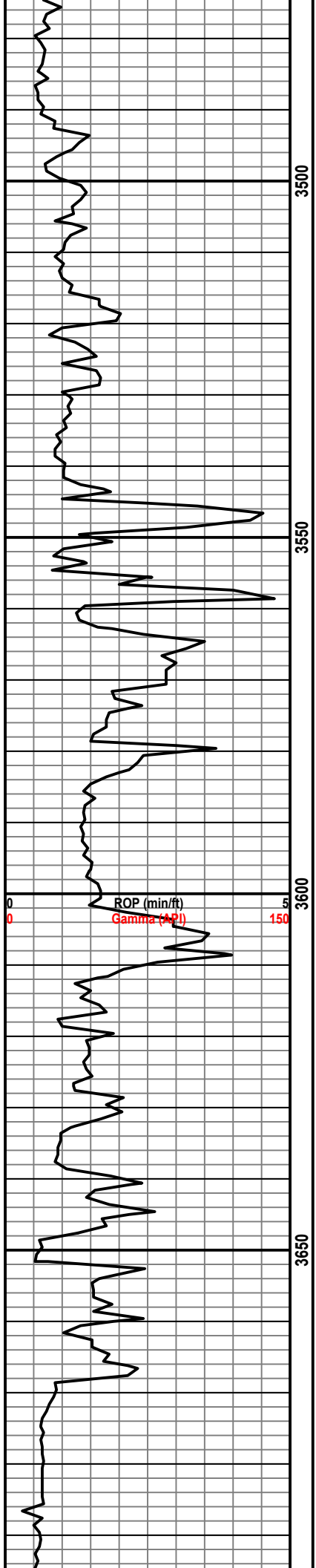
- Rft
- Sidewall







1	10	TG (Units)	100	1000
1	10	C1 (Units)	100	1000
1	10	C2 (Units)	100	1000
1	10	C3 (Units)	100	1000
1	10	C4 (Units)	100	1000
1	10	C5 (Units)	100	1000
10	100		1000	1e4



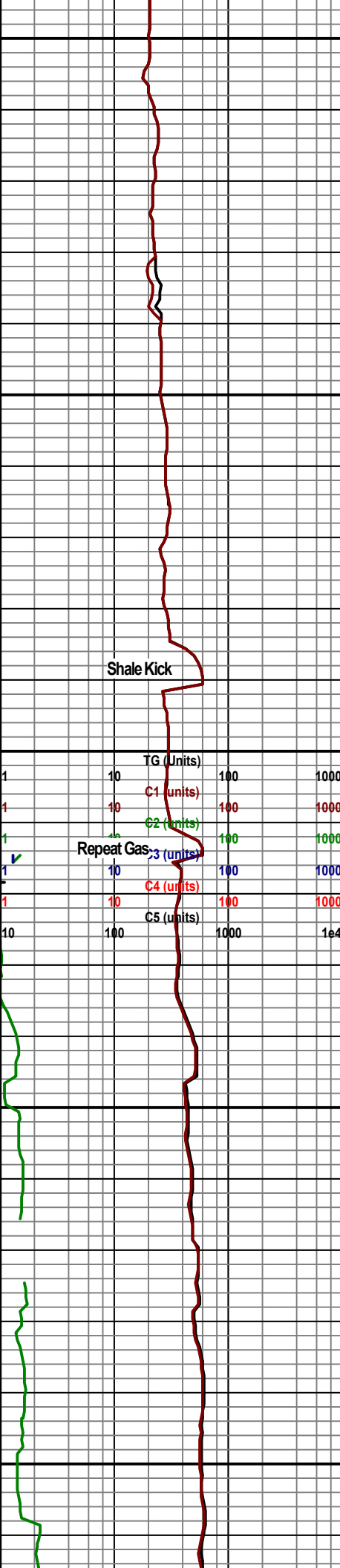
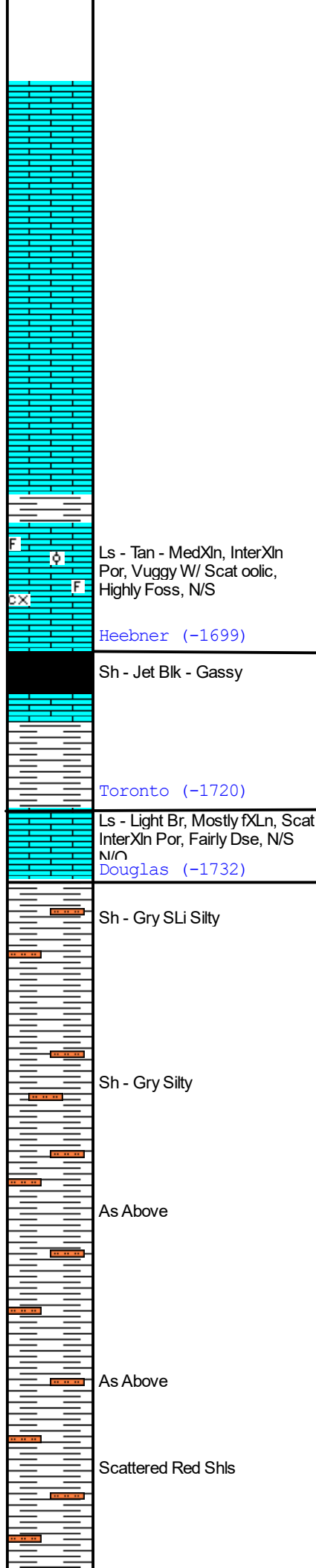
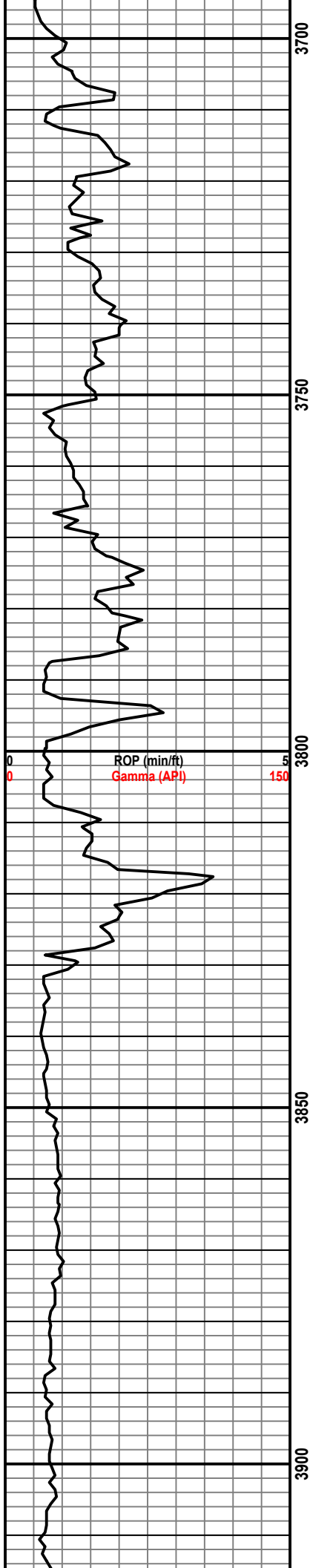
Displaced Mud

Bit Trip - switched to PDC

	1	10	100	1000
C1 (units)	1	10	100	1000
C2 (units)	1	10	100	1000
C3 (units)	1	10	100	1000
C4 (units)	1	10	100	1000
C5 (units)	10	100	1000	1e4

Conn - 3657

Conn - 3688



Conn - 3720

Conn - 3751

- Mud Check -
Wt: 8.8
Vis: 82

Conn - 3783

Shale Kick

Conn - 3815

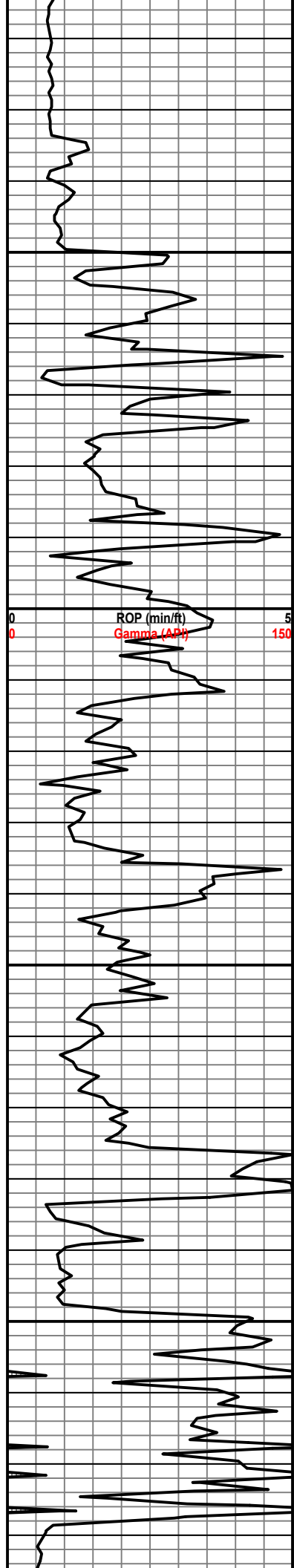
- Mud Report -
Depth: 3843
Wt: 8.6
Vis: 68
Fil: 9.6
Chl: 6,000
Lcm: 3#

Conn - 3846

Conn - 3878

- Mud Check -
Wt: 8.6
Vis: 68

Conn - 3909



3950
4000
4050
4100



As Above

Brown Lime (-1846)

Ls - Br, fXln, Sli Foss, Dse
Sh - Gry, Scattered Red Shls
LKC (-1862)

Ls - Gry, MedXln, InterXln Por, Foss, N/S
Ls - Tan, MedXln, scat vuggy Por, InterXln Por, N/S
LKC "B" (-1882)

Ls - Gry, MedXln, Vuggy-Xln Por, N/S N/O
Ls - Light Tan, MedXln, Highly Foss, Sli Vug, N/S
Ls - Light Gry, MedXln, Sme InterXln Por W/ Resid Oil Str, No Fluor, No Odor

Ls - Gry, fXln, Scat Foss, Jagged, Dse Chrty, N/S
LKC "F" (-1938)

Ls - Br, fXln, Sli Ooli/oolic, Sli Foss, N/S

Ls - Wht, fXln, PP por, Mstly No Vis Por, N/S

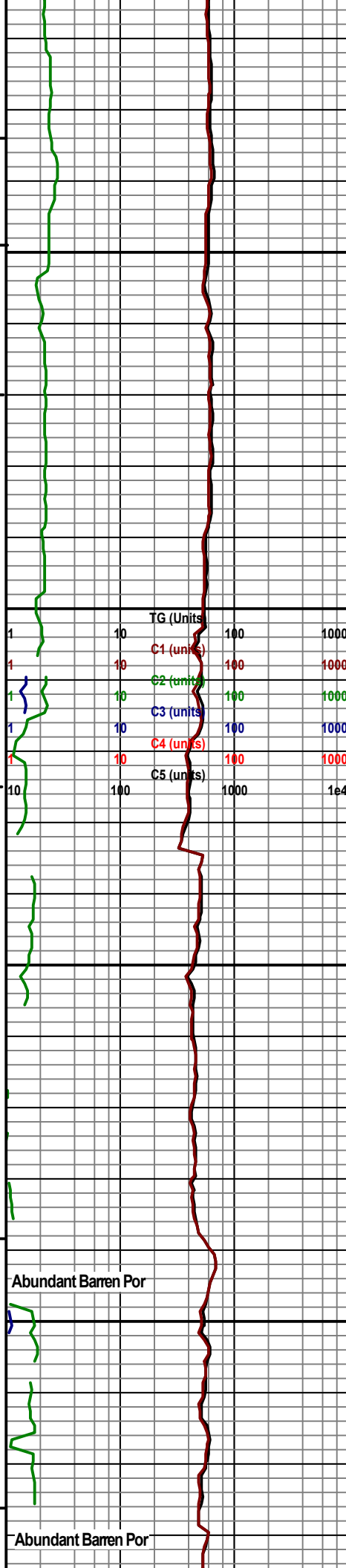
Ls - Tan MedXln, Vuggy, Sli CHalky, PP Por, Scat Moldic, N/S

Ls - Tan - MedXln, Highly Weathered, InterXln Por, Foss, N/S N/O
LKC "H" (-1998)

Ls - Br, MedXln, Vuggy, Moldic Por, Fair SFO&G, Well Sat in samples W/ Oil, Abundant Barren Por. Strong Odor

Ls - Tan, fXln, Few Scat Oolic, Mostly No Vls Por
LKC "J" (-2039)

Ls - Tan, MedXln, Vuggy Oolic, GSFO&Sme-G, Partial Sat, Strong Odor. Sme Heavy Oil



Conn - 3941

- Mud Check -
Wt: 8.8
Vis: 70

Conn - 3973

Conn - 4004

Conn - 4036

Conn - 4067

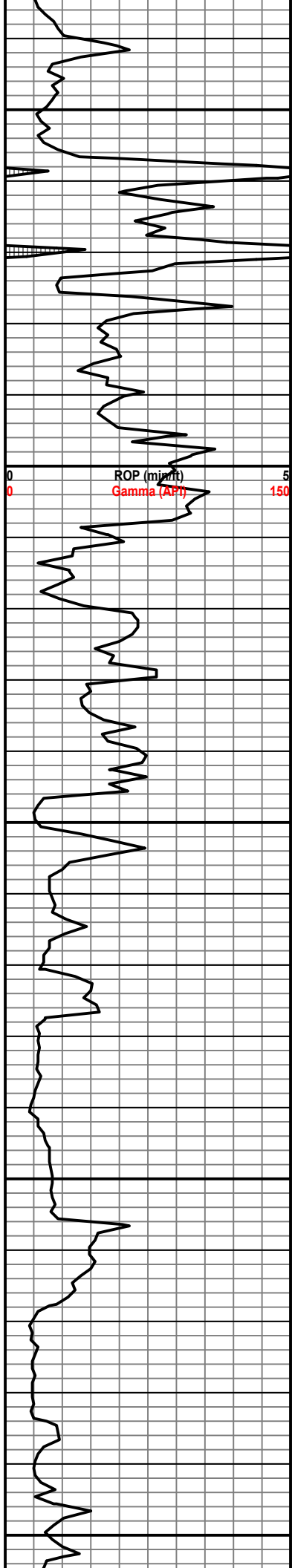
Conn - 4099

Conn - 4131

Abundant Barren Por

Abundant Barren Por

Logging Data, Shale N/S



4150
4200
4250
4300
4350

Ls - Light Gry, MedXLn, Tight Oolic/Ooli, Barren Por, N/S N/O

Ls - Br, MedXLn, Foss, Scat Oolica/Ooli, N/S Dse

Ls - Tan, fXLn, Sme Scat InterXLn, Mostly No Vis Por

Ls - White, MedXLn, Large Foss, Highly Oolitic, N/S N/O

Sh - Blk, Gry

Ls - Tan, MicroXLn, No Vis Por

Ls - Tan/Gry, fXLn, SLi Scat Foss, Mostly No Vis Por

BKC (~2158)

Ls - Tan, MedXLn, InterXLn Por, Foss, Sme Resid Dead Stn, No shows No Odor

Silty Shale, Green,

Ls - Wht, MicroXLn, No Vis Por

SH - BLue/Green, Highly Silty, Calc, Limy, Soft

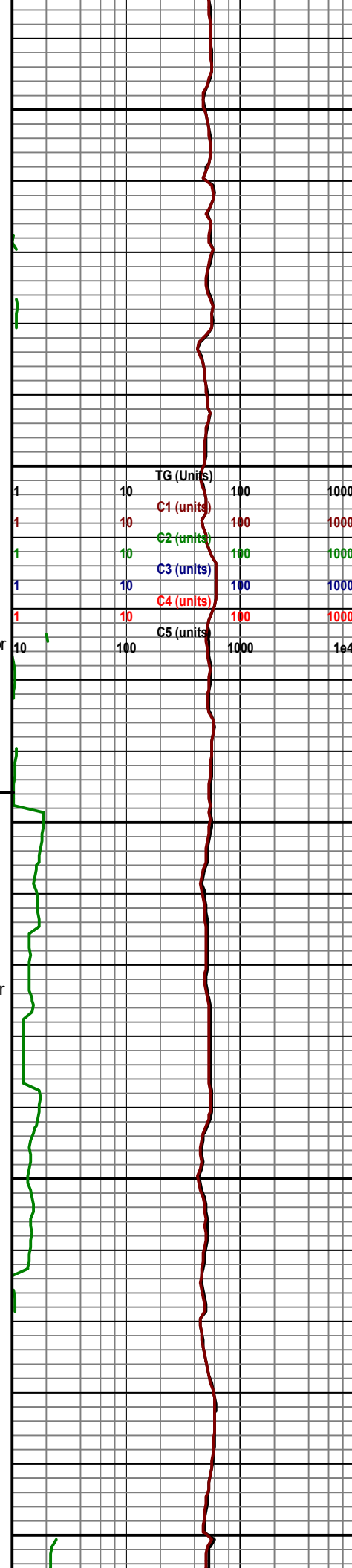
Sh - Blue/Green/ Silty, Very Soft, Calc

Ls - Light tan/Gry, MicroXLn, Dse No Vis Por

Sh - BLue/Green, Waxy

Sh - Blue/Green, Waxy Scat Blk Organic Matter

Shaly Ls - Gry, MicroXLn, Waxy Interbed Blk Organ Matter



Conn - 4162

Conn - 4195

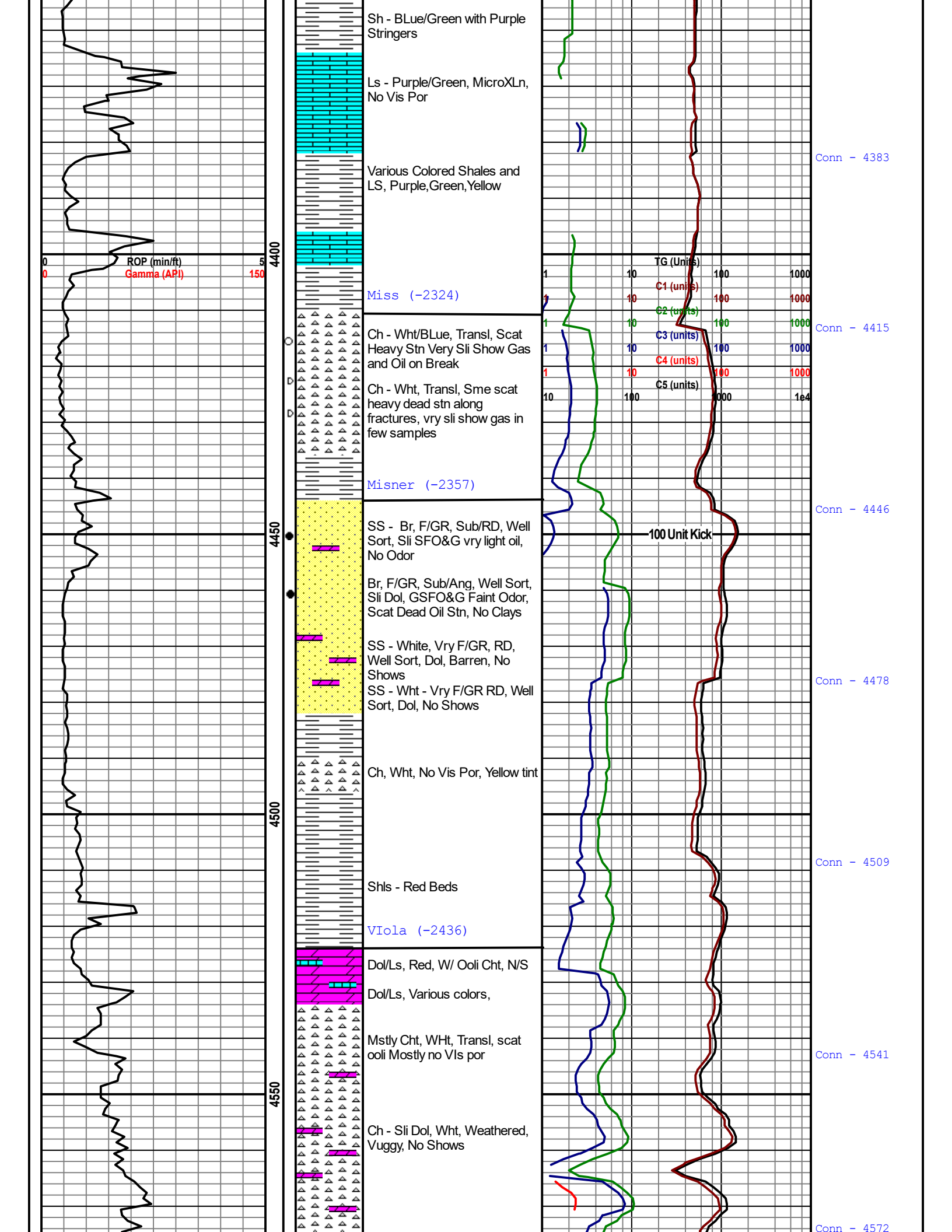
Conn - 4225

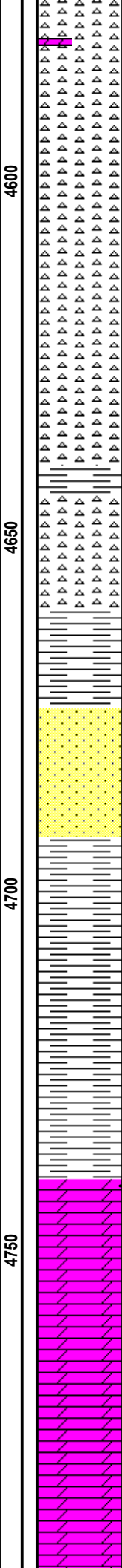
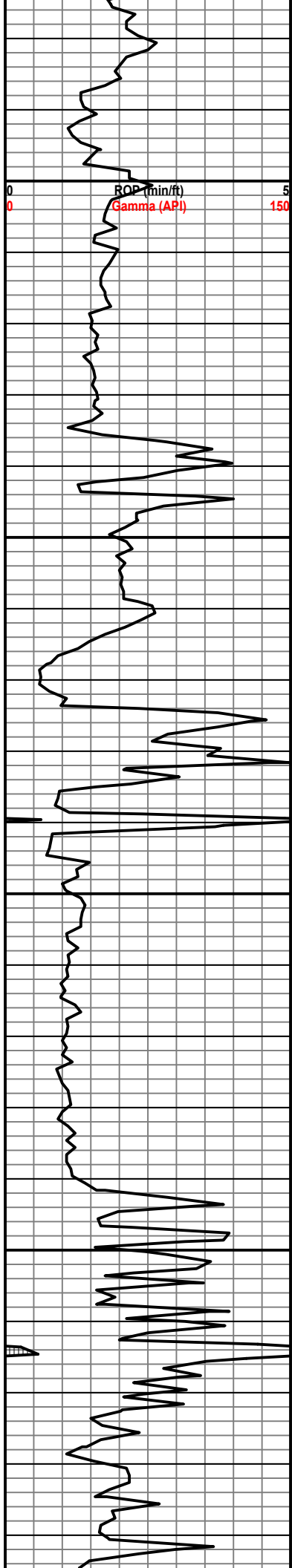
Conn - 4257

Conn - 4289

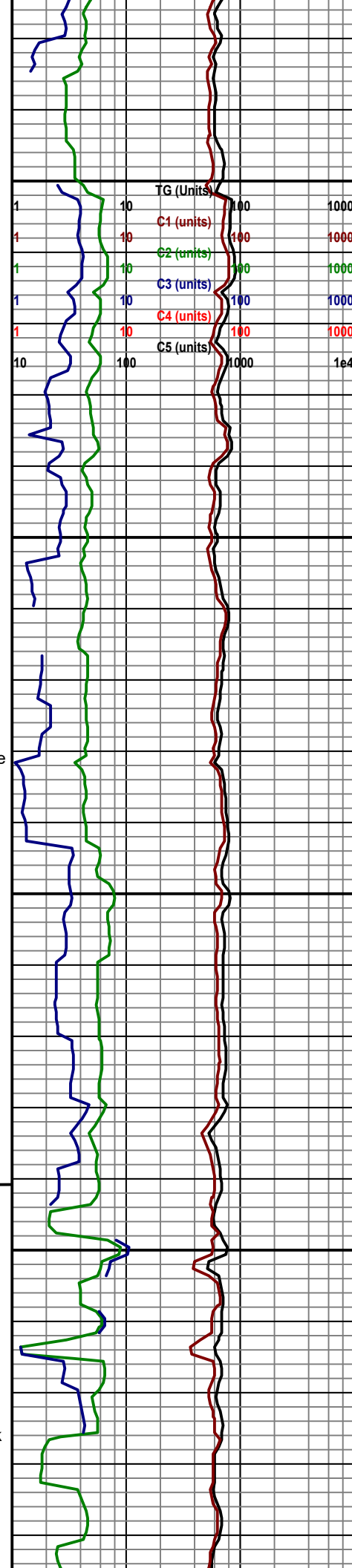
Conn - 4320

Conn - 4352



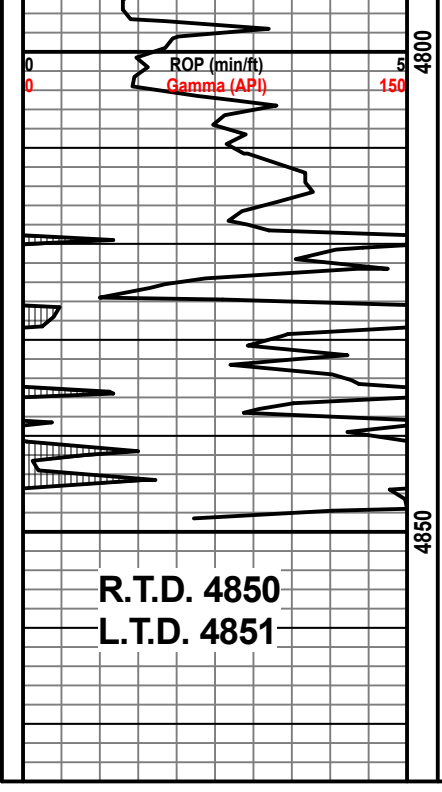


Ch - Wht, Sli Dol, N/S
 CH - Wht, Fract, N/S
 Sh, Grn Silty
 SS - Grn tint mstly clear, Large GR, RD, Well Sorted, Abundant shale/Glauc, N/S N/O
 Sh, Grn, Sandy
 Sh - Grn, Waxy
 Sh, Grn
 Arbuckle (-2653)
 Dol - Tan, Oolit, Vug, InterXln, MedXln, Sli Sucro N/S N/O
 Tan MicroXln, Sme Scat InterXln, N/S
 Tan, fXln, Scat Oolic, Vuggy, N/S
 Br, MicroXln, No Vls Por, Pink Shade

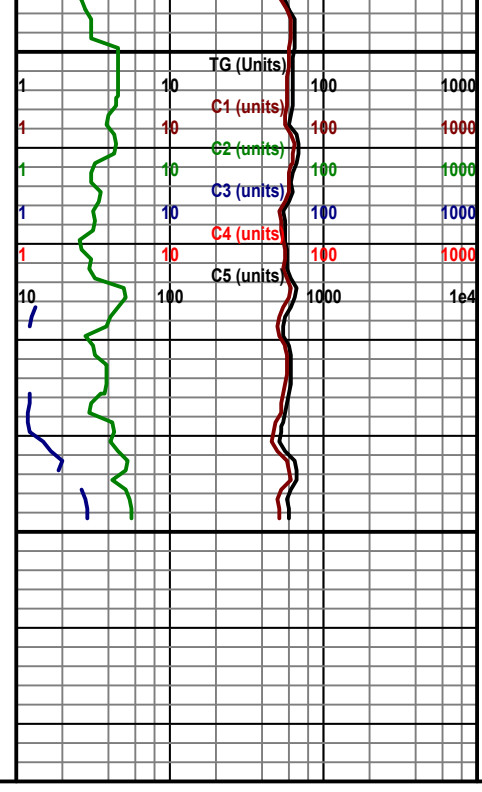
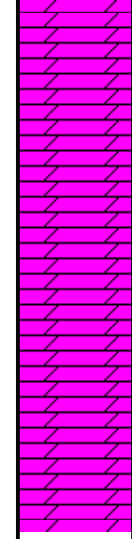


- Mud Check -
 Wt: 9.1
 Vis: 57
 Conn - 4604
 Conn - 4636
 - Mud Report -
 Depth: 4645
 Wt: 9.2
 Vis: 52
 Fil: 9.8
 Cht: 8,000
 Lcm: 2.5#
 Conn - 4667
 Conn - 4694
 - Mud Check -
 Wt: 9.1
 Vis: 58
 Conn - 4730
 Conn - 4762

Conn - 4794



R.T.D. 4850
L.T.D. 4851



Conn - 4825

- Mud Check -
Wt: 9.3
Vis: 59



CEMENT TREATMENT REPORT

Customer:	NEC Opoerating Kansas LLC	Well:	Iron Orchard 1	Ticket:	wp 4811
City, State:	Trousdale Kansas	County:	Edwards Kansas	Date:	10/17/2023
Field Rep:	Scott Piland	S-T-R:	15-26s-16w	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	347 ft
Casing Size:	8 5/8 in
Casing Depth:	345 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	20.0 bbls

Calculated Slurry - Lead	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.5 gal / sx
Yield:	1.39 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	86.6 bbls
Total Sacks:	350 sx

Calculated Slurry - Tail	
Blend:	A2%cc
Weight:	15.6 ppg
Water / Sx:	gal / sx
Yield:	1.20 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	27.7 bbls
Total Sacks:	130 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
9:00 PM			-	-	on location job and safety
9:15 PM				-	spot trucks and rig up
				-	
10:30 PM				-	start casing in the hole
11:45 PM				-	pipe on bottom and establish circulation
				-	
11:55 PM				-	start cement
	3.0	150.0	2.0	2.0	fresh water
	3.5	200.0	86.0	88.0	mix 350 sacks H-325 at 14.8
12:20 AM					cement in and shut down
				-	
					release plug and start displacement
	3.5	100.0	20.0		
12:30 AM					displacement in and close in the well
					cement did not circulate
					send bulk truck in for more cement
					run 1 joint 1 inch
3:30 AM	1.0	50.0	1.0		fresh water
	1.5	50.0	27.0		mix 130 sacks A2%cc to surface

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	M McGraw	540/522	2.5 bpm	110 psi	136 bbls
Bulk #1:	M Lawrence	176/532			
Bulk #2:					