LITHOLOGY STRIP LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial

Well Name:	**#1-27 Carr**
Location:	**1658' FSL & 2273' FWL Sec. 27-T21S-R16W, Pawnee CO. KS.**
Licence Number:	**15-145-21620-0000** **Region: Larned**
Spud Date:	**12/13/10** **Drilling Completed: 12/18/10**
Surface Coordinates:	**1658' FSL & 2273' FWL, Sec. 27-T21S-R16W**
Bottom Hole Coordinates:	**Same as above**
Ground Elevation (ft):	**1987'** **K.B. Elevation (ft): 1999'**
Logged Interval (ft):	**1850'** **To: 3859'** **Total Depth (ft): 3859'**
Formation:	**Arbuckle at Total Depth**
Type of Drilling Fluid:	**Freshwater/Gel to 2801'; Chemical Gel 2801' to TD.**

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OPERATOR

Company: Strata Exploration, Inc.
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GEOLOGIST

Name: Jon D. Christensen
Company: Consulting Petroleum Geologist
Address: 9002 W. Silver Hollow St.
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Cores

None Taken

DSTs

DST #1(Lansing 'A' & 'B') 3498' - 3538'(Corrected Depths to the LOG) Times 15"-45"-45"-90" IFP Weak 1/4" Blow; FFP Weak 1/4" Blow throughout, no Blowback on SI; REC: 60' GIP, 30' VSOCM(2% O, 98% M), no water; IFP 21-23#, ISIP 576#, FFP 26-30#, FSIP 402#, IHP 1727#, FHP 1650#, BHT 101 Deg. F.

DST #2(Simpson Sand/Arbuckle) 3755' - 3858'(Corrected Depths to the LOG) Test Times 15"-45"-15"-45" IFP Strong Blow BOB/20 Sec.; FFP Strong Blow BOB/40 Sec., Weak surface Blowback on ISI, FSI No Blowback; REC: 2430' Total Fluid: 820' VSOCM(2%O, 98%M), 250' OCWM(10%O, 5%W, 85%M), 680' GHOCMW(10%G, 20%O, 65%W, 5%M), 250' SO&MCW(5%O, 90%W, 5%M), 430' MSW(5%M, 95%W), Cl 75,000, Mud 7200; IFP 563-909#, ISIP 1237#, FFP 926-1157#, FSIP 1237#, IHP 1883#, FHP 1826#, BHT 117 Deg. F.

Comments

12/13/10 MIRU Sterling Drilling Rig #2, Spud at 3:45 PM.; 12/14/10 TD. 997' - Short Trip/Surface Casing; 12/15/10 Drilling at 1450'; 12/16/10 Drilling at 2801'; 12/17/10 TD. 3540' - Mixing Mud/Short Trip for DST #1; 12/18/10 Drilling at 3728'; 12/19/10 RTD. 3859' - CCH for Logs(Log Tech); 12/20/10 RTD. 3859', LTD. 3858'- 5 1/2" Production casing set.

Set 8 5/8"(23#) Surface Casing at 997' w/370 sx. cement(Basic Energy Services). Cement did Circulate. PD. at 12:30 PM. on 12/14/10. Set new 5 1/2"(15.5#) Production casing at 3855' KB. Cemented with 200 sx. Cement(Basic Energy Services). PD. 6:00 AM. 12/20/10.

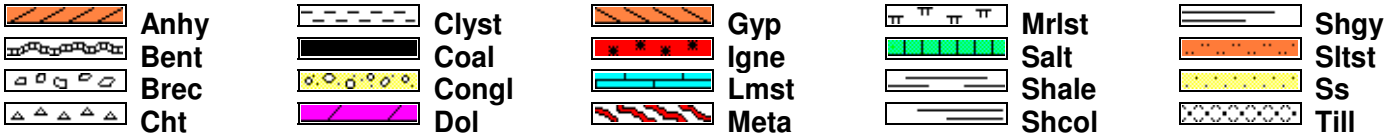
Surveys: 0.75 Deg. at 997'(Surface Casing); 1 Deg. at 3540'(DST #1); 1 Deg. at 3859'(DST #2 and RTD).

Pipe Strap at 3540'(DST #1): Strap 0.02' Short to the Board, no correction made to the Board.

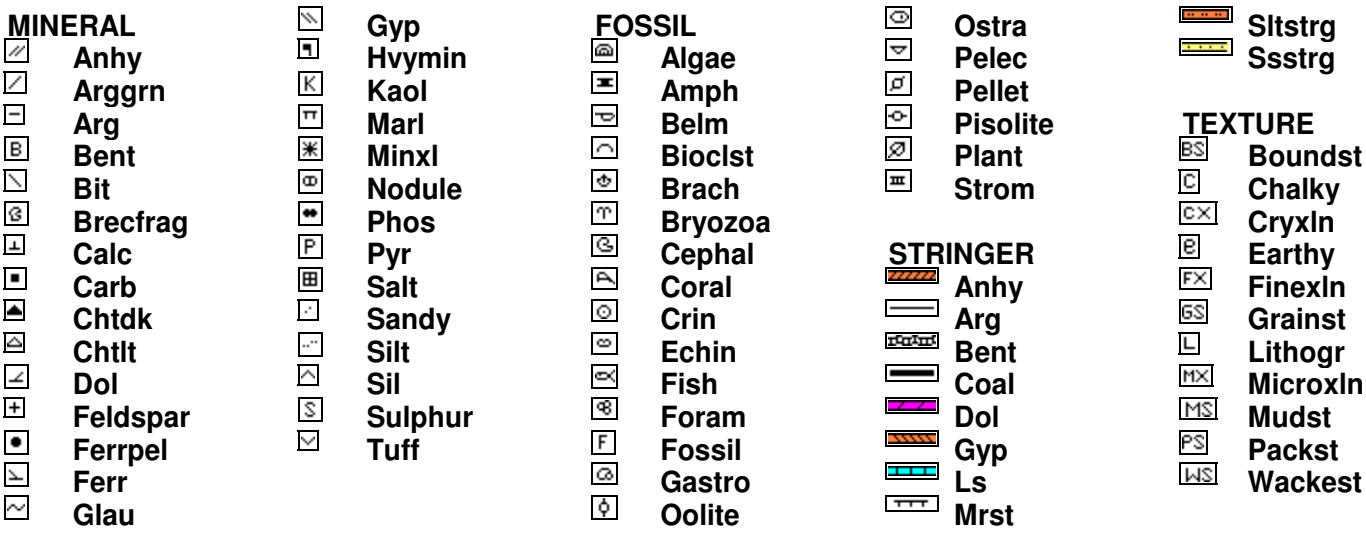
After evaluation of the Log Tech openhole logs, DST data, structural position, and positive hydrocarbon showings, the operator elected to set new 5 1/2" 15.5# Production Casing to complete in the Arbuckle.

LOG TOPS: Herington(Chase) 1955(+44), Krider 1970(+29), Topeka 3029(-1030), Queen Hill Shale 3279(-1280), Heebner Shale 3388(-1389), Toronto 3408(-1409), Douglas Shale 3424(-1425), Brown Lmst. 3487(-1488), Lansing 'A' 3496(-1497), Lansing 'B' 3524(-1525), Base Kansas City 3710(-1711), Marmaton 3721(-1722), Conglomerate 3753(-1754), Simpson Shale 3804(-1805), Simpson Sand 3840(-1841), Arbuckle 3854(-1855).

ROCK TYPES



ACCESSORIES



OTHER SYMBOLS

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

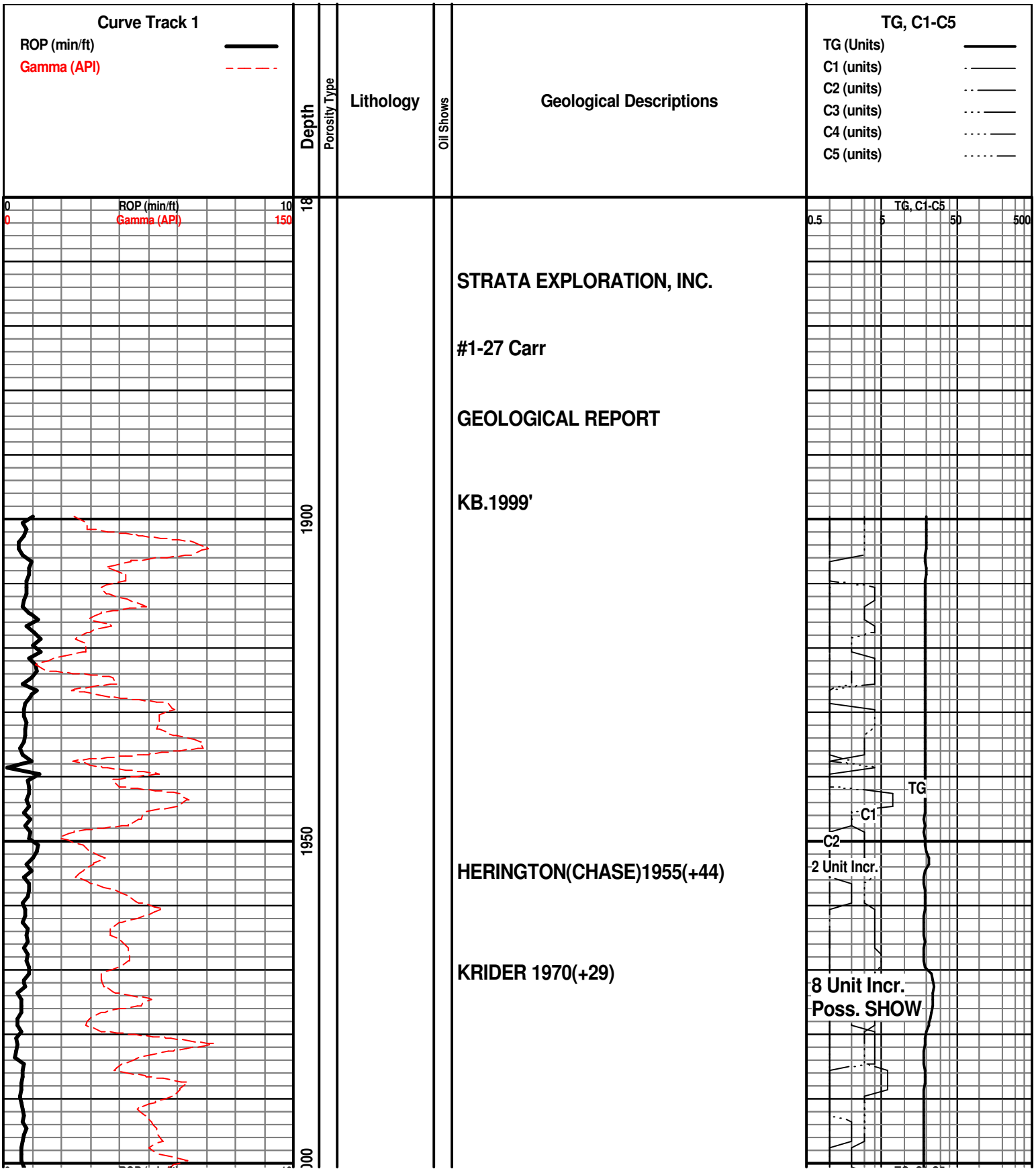
SORTING
- Well
- Moderate
- Poor

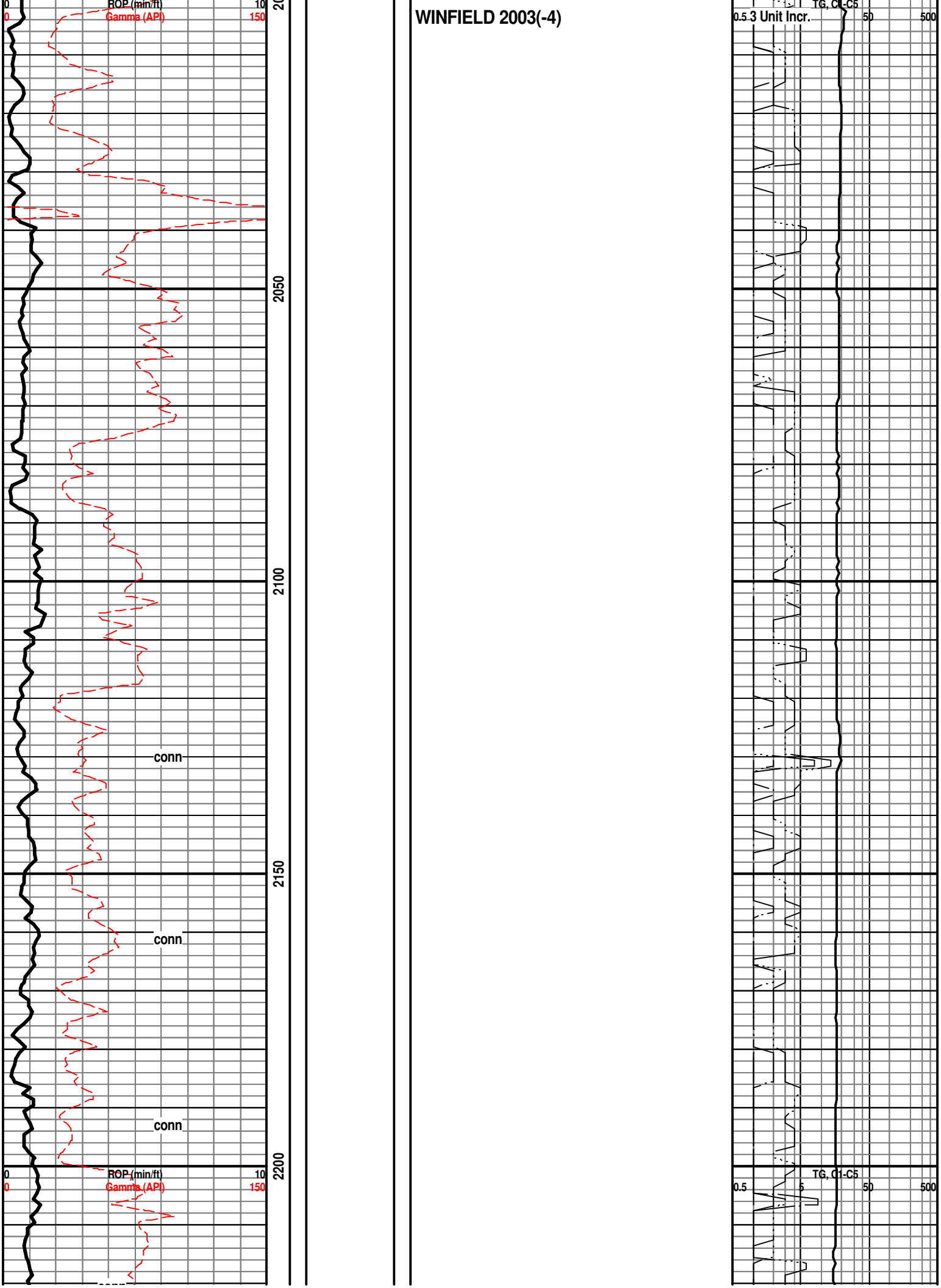
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

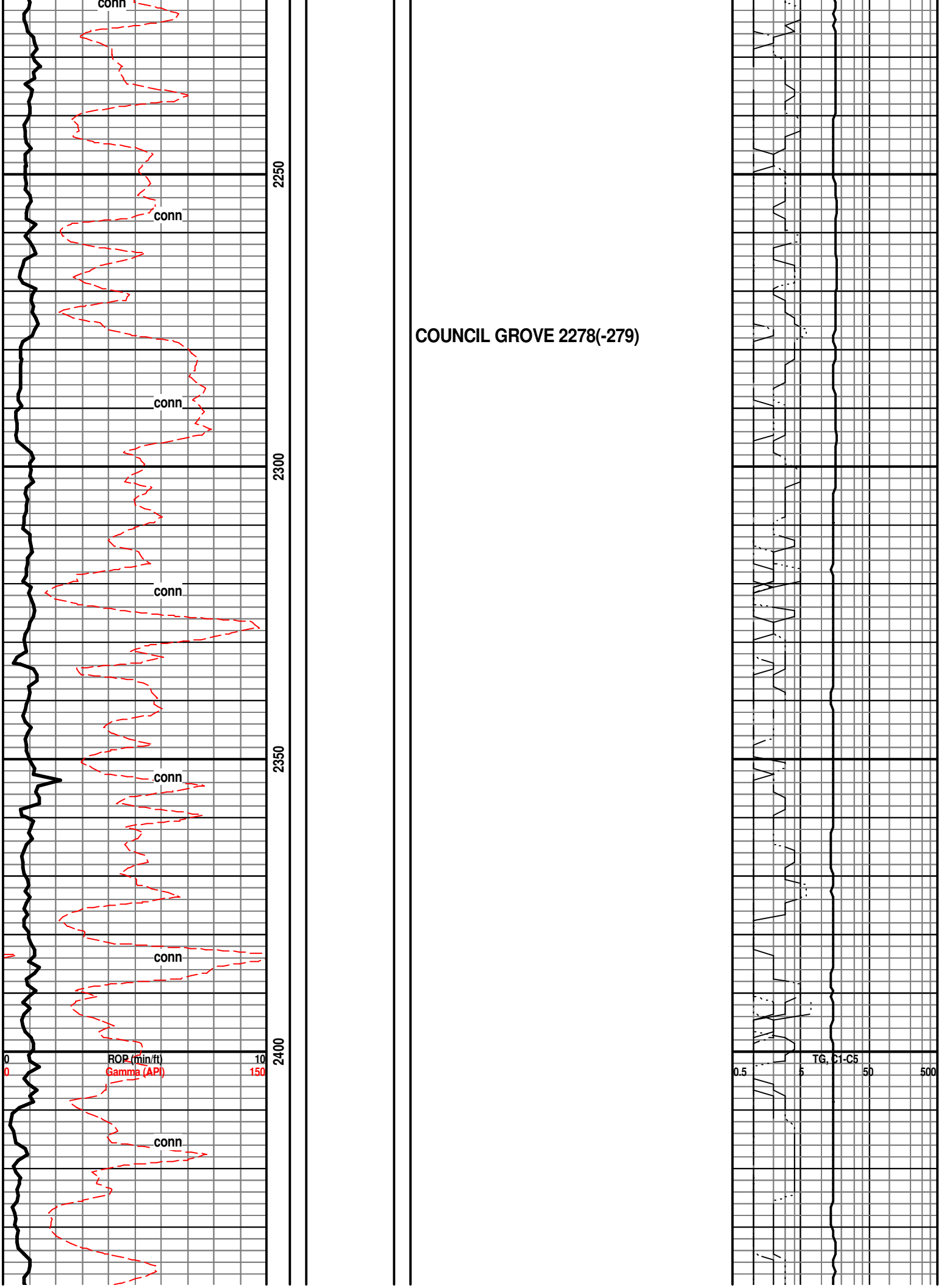
OIL SHOW
- Even
- Spotted
- Ques
- Dead

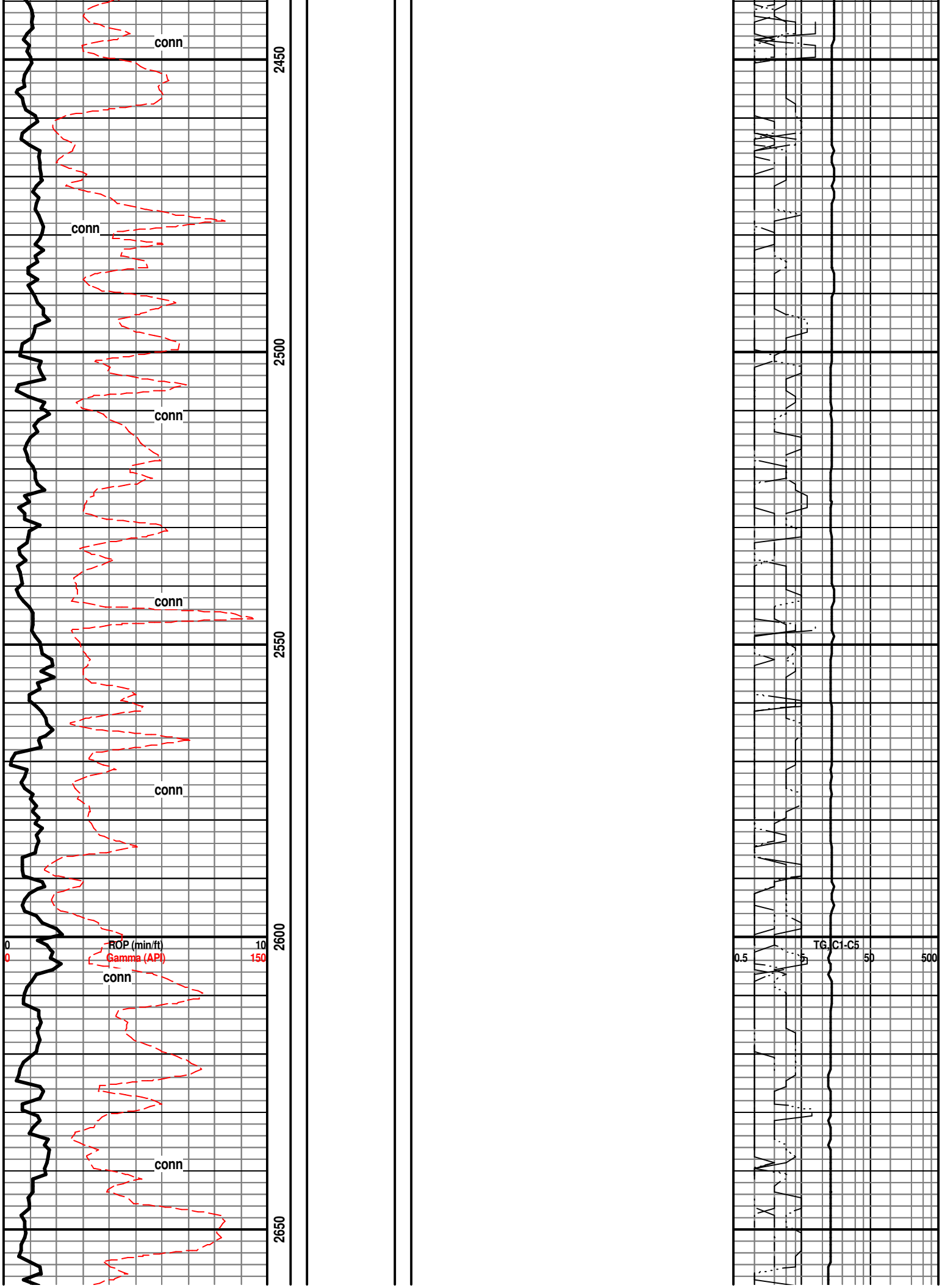
INTERVAL
- Core
- Dst

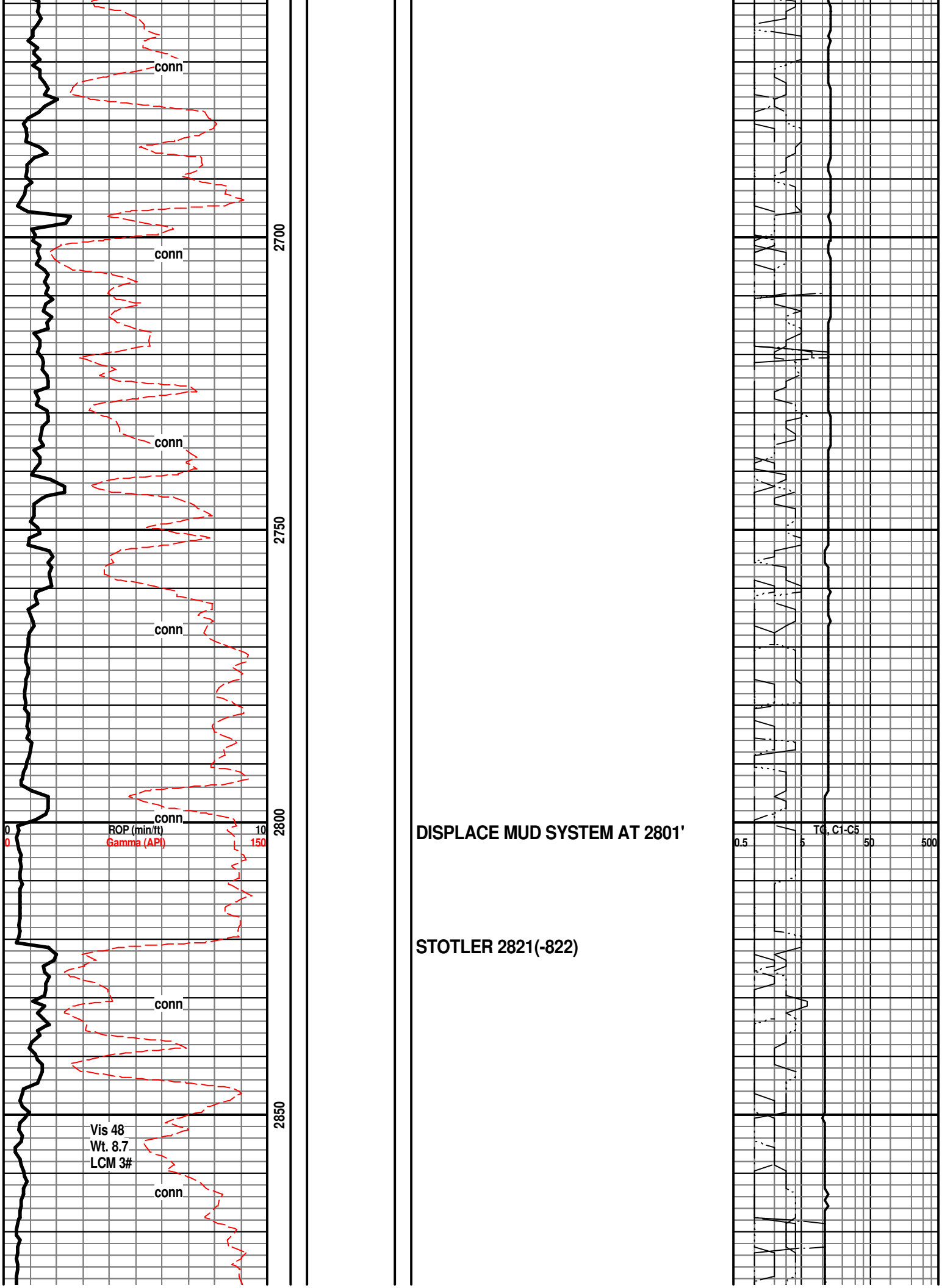
EVENT
- Rft
- Sidewall

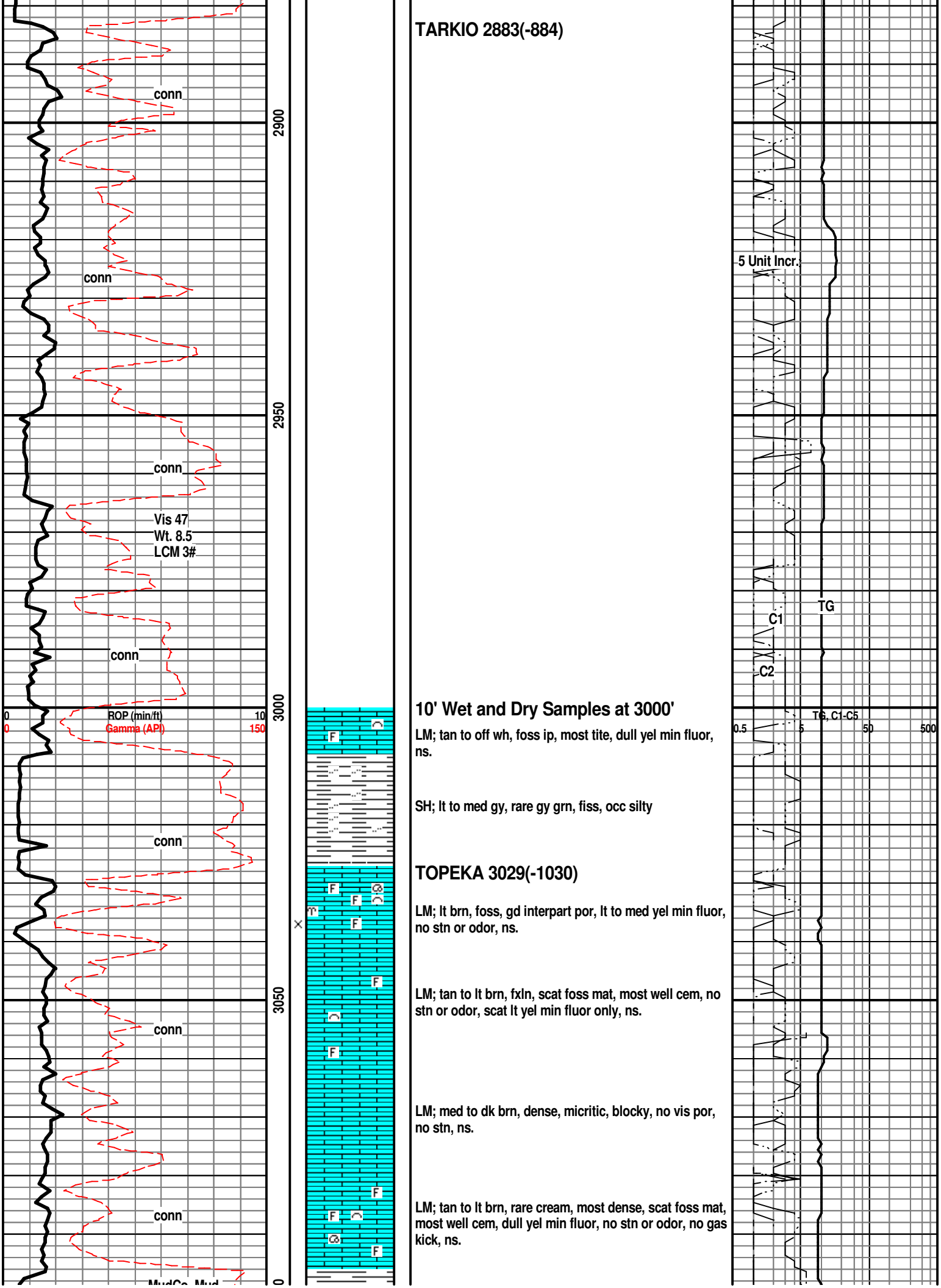


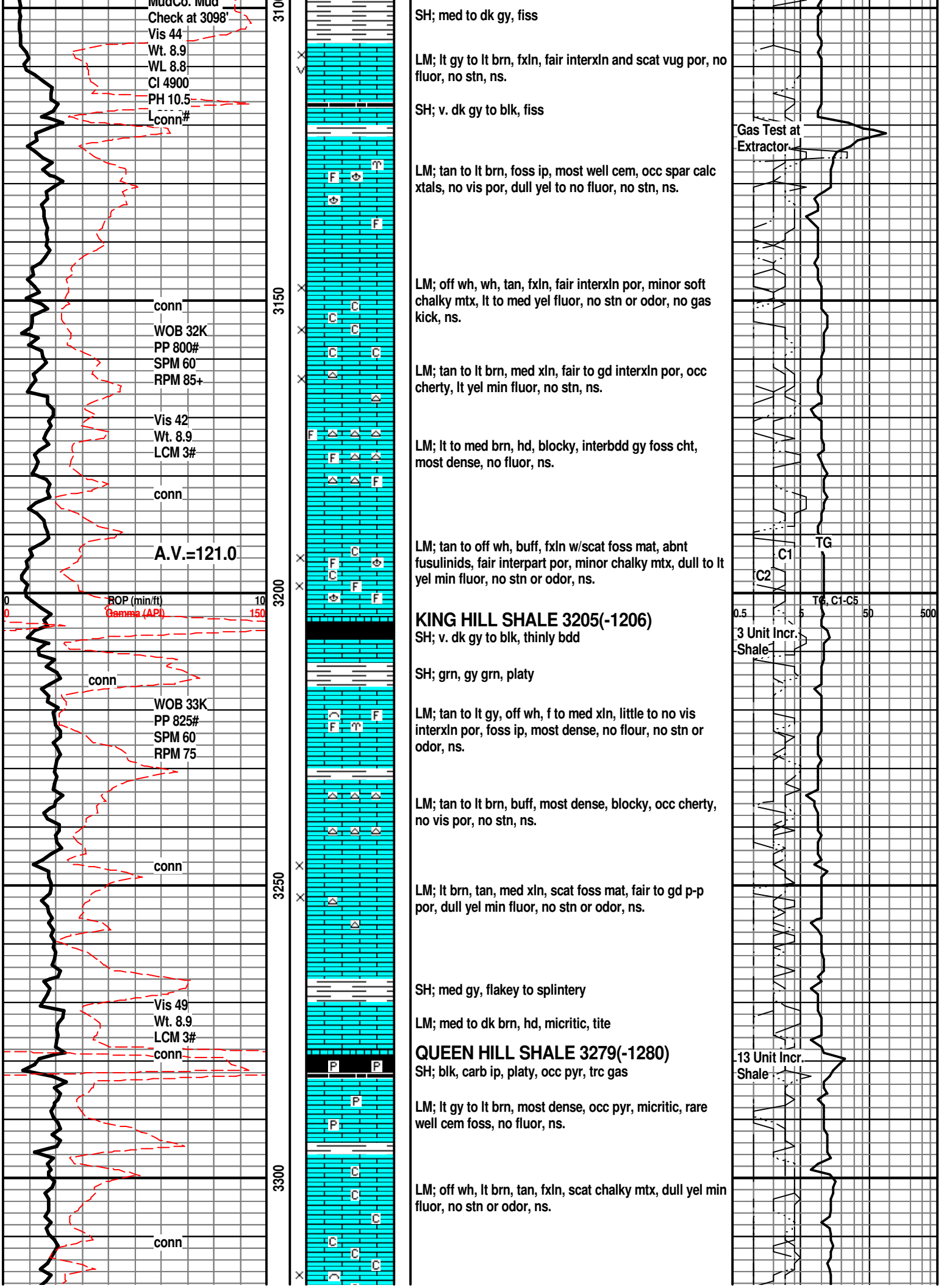

WINFIELD 2003(-4)
ROP (min/ft)
0
10
Gamma (API)
0
150
2050
2100
conn
2150
conn
conn
2200
TG, C1-C5
0.5
3 Unit Incr.
50
500

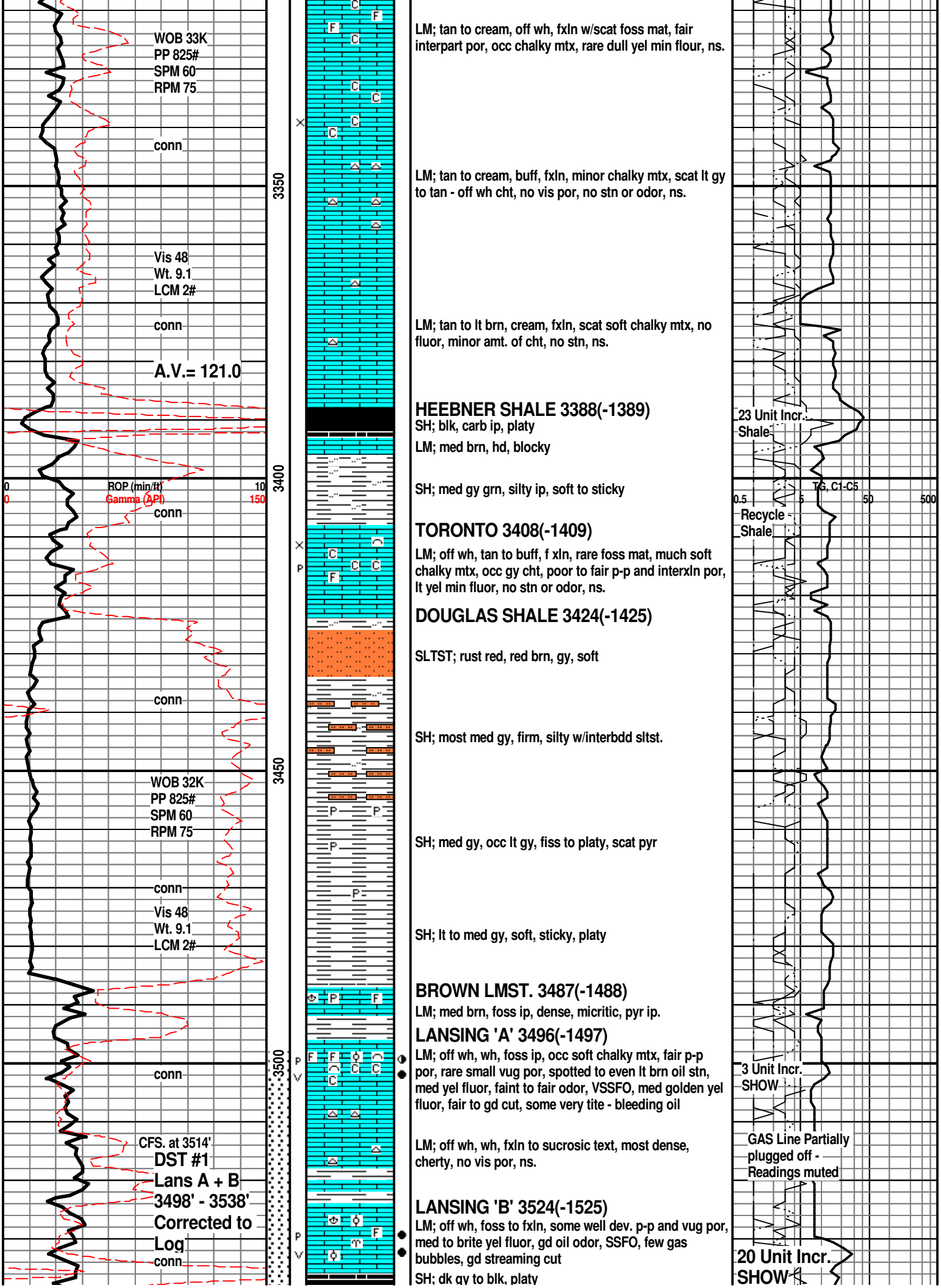

conn
conn
conn
conn
conn
conn
conn
2250
2300
2350
2400
COUNCIL GROVE 2278(-279)
0
ROP (min/ft)
10
0
Gamma (API)
150
TG, C1-C5
0.5
5
50
500

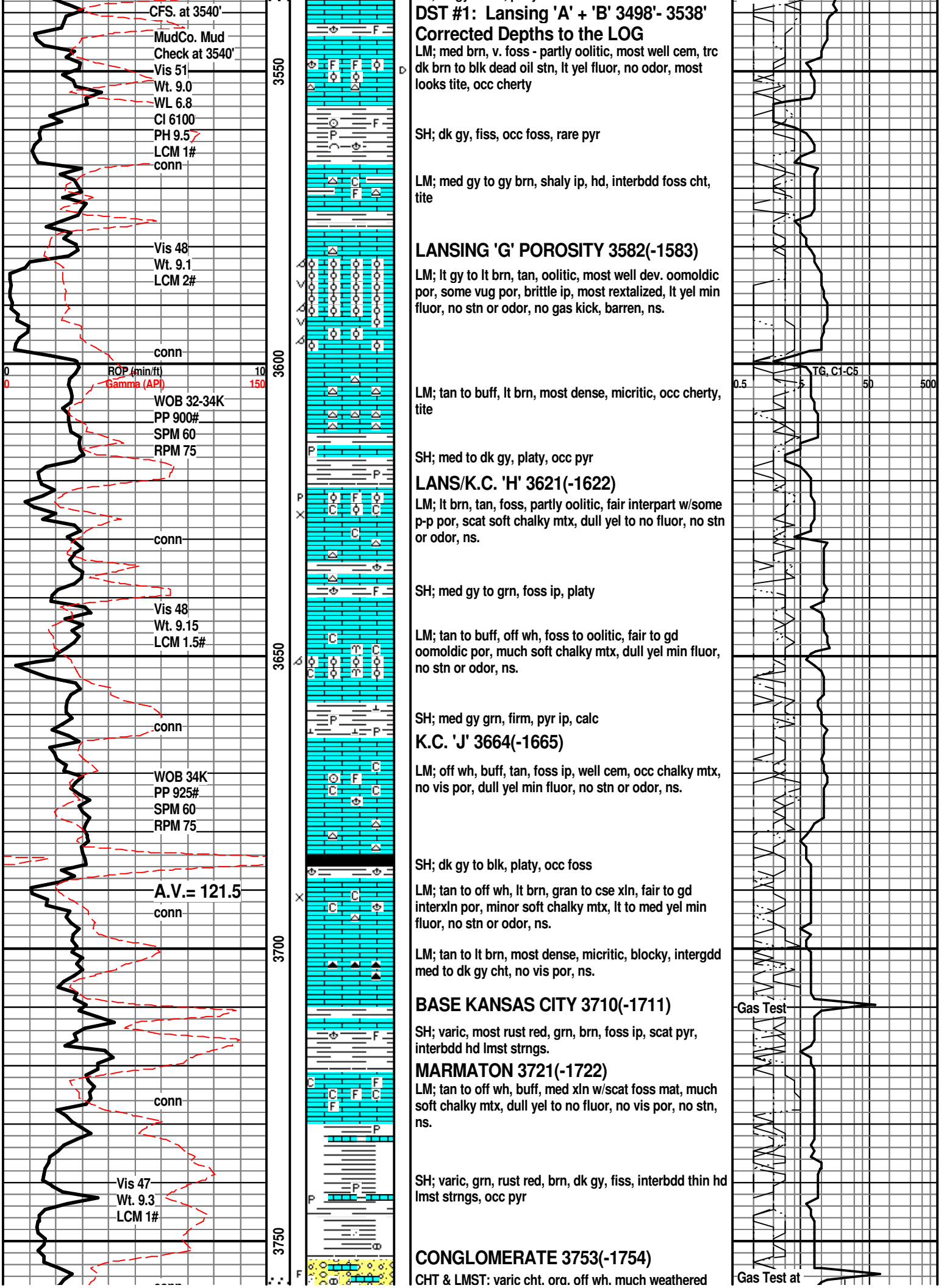

conn
conn
conn
conn
conn
conn
conn
2450
2500
2550
2600
2650
0
ROP (min/ft)
10
0
Gamma (API)
150
0.5
5
50
500
TG, C1-C5

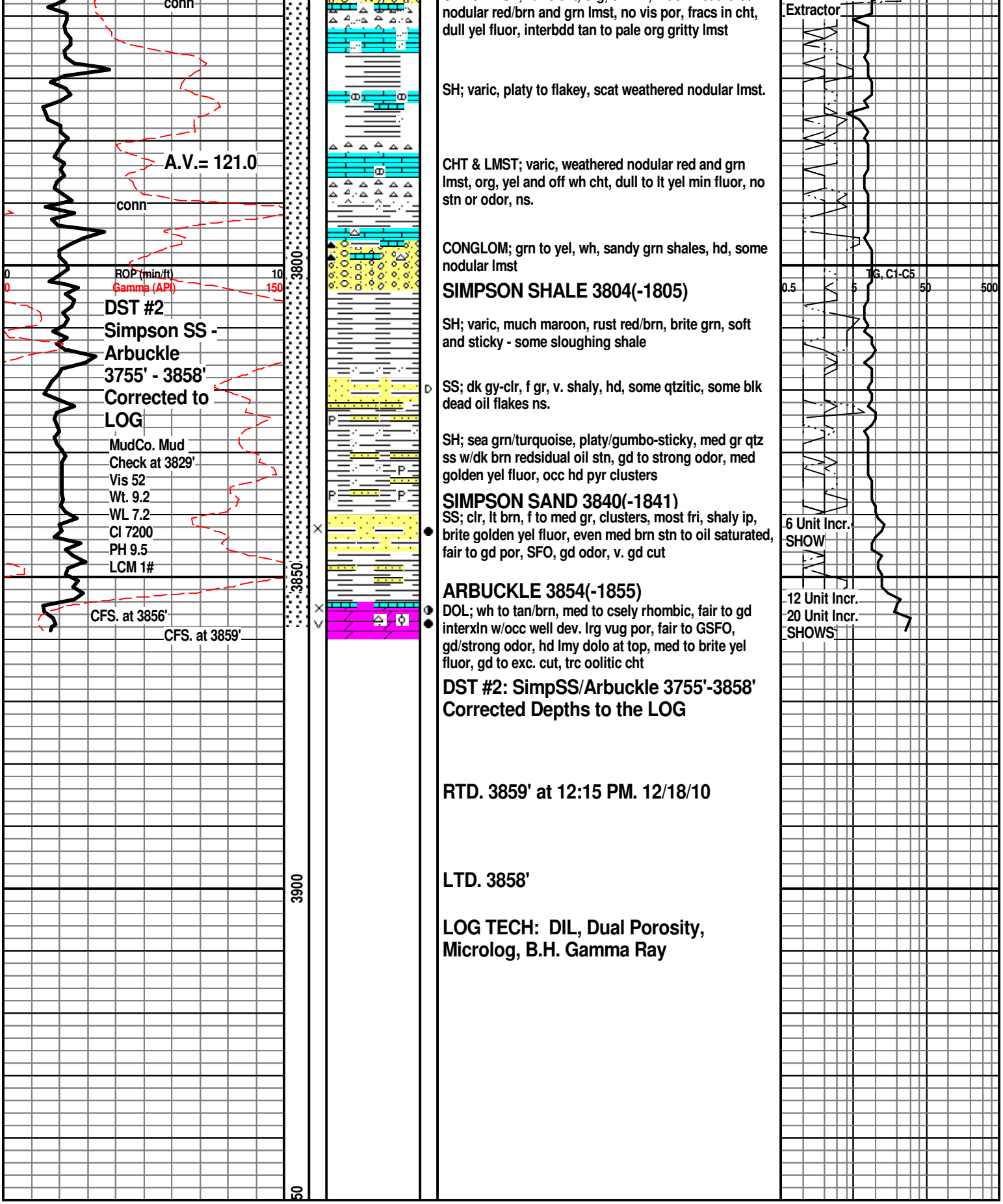

conn
conn
conn
conn
conn
conn
2700
2750
2800
2850
0
ROP (min/ft)
10
0
Gamma (API)
150
Vis 48
Wt. 8.7
LCM 3#
DISPLACE MUD SYSTEM AT 2801'
STOTLER 2821(-822)
TG, C1-C5
0.5
5
50
500


conn
conn
conn
Vis 47
Wt. 8.5
LCM 3#
conn
ROP (min/ft)
Gamma (API)
0
0
10
150
conn
conn
conn
2900
2950
3000
3050
TARKIO 2883(-884)
5 Unit Incr.
C1
C2
TG
TG, C1-C5
0.5
5
50
500
10' Wet and Dry Samples at 3000'
LM; tan to off wh, foss ip, most tite, dull yel min fluor, ns.
SH; lt to med gy, rare gy grn, fiss, occ silty
TOPEKA 3029(-1030)
LM; lt brn, foss, gd interpart por, lt to med yel min fluor, no stn or odor, ns.
LM; tan to lt brn, fxln, scat foss mat, most well cem, no stn or odor, scat lt yel min fluor only, ns.
LM; med to dk brn, dense, micritic, blocky, no vis por, no stn, ns.
LM; tan to lt brn, rare cream, most dense, scat foss mat, most well cem, dull yel min fluor, no stn or odor, no gas kick, ns.


MudCo: Mud
Check at 3098'
Vis 44
Wt. 8.9
WL 8.8
Cl 4900
PH 10.5
Lconn#
conn
WOB 32K
PP 800#
SPM 60
RPM 85+
Vis 42
Wt. 8.9
LCM 3#
conn
A.V.=121.0
ROP (min/ft)
Gamma (API)
conn
WOB 33K
PP 825#
SPM 60
RPM 75
conn
Vis 49
Wt. 8.9
LCM 3#
conn
conn
3100
3150
3200
3250
3300
SH; med to dk gy, fiss
LM; lt gy to lt brn, fxln, fair interxln and scat vug por, no fluor, no stn, ns.
SH; v. dk gy to blk, fiss
LM; tan to lt brn, foss ip, most well cem, occ spar calc xtals, no vis por, dull yel to no fluor, no stn, ns.
LM; off wh, wh, tan, fxln, fair interxln por, minor soft chalky mtx, lt to med yel fluor, no stn or odor, no gas kick, ns.
LM; tan to lt brn, med xln, fair to gd interxln por, occ cherty, lt yel min fluor, no stn, ns.
LM; lt to med brn, hd, blocky, interbdd gy foss cht, most dense, no fluor, ns.
LM; tan to off wh, buff, fxln w/scat foss mat, abnt fusulinids, fair interpart por, minor chalky mtx, dull to lt yel min fluor, no stn or odor, ns.
KING HILL SHALE 3205(-1206)
SH; v. dk gy to blk, thinly bdd
SH; grn, gy grn, platy
LM; tan to lt gy, off wh, f to med xln, little to no vis interxln por, foss ip, most dense, no flour, no stn or odor, ns.
LM; tan to lt brn, buff, most dense, blocky, occ cherty, no vis por, no stn, ns.
LM; lt brn, tan, med xln, scat foss mat, fair to gd p-p por, dull yel min fluor, no stn or odor, ns.
SH; med gy, flakey to splintery
LM; med to dk brn, hd, micritic, tite
QUEEN HILL SHALE 3279(-1280)
SH; blk, carb ip, platy, occ pyr, trc gas
LM; lt gy to lt brn, most dense, occ pyr, micritic, rare well cem foss, no fluor, ns.
LM; off wh, lt brn, tan, fxln, scat chalky mtx, dull yel min fluor, no stn or odor, ns.
Gas Test at Extractor
C1
C2
TG
TG, C1-C5
0.5
5
50
500
3 Unit Incr. Shale
13 Unit Incr. Shale


WOB 33K
PP 825#
SPM 60
RPM 75
conn
Vis 48
Wt. 9.1
LCM 2#
conn
A.V.= 121.0
0
ROP (min/ft)
10
0
Gamma (API)
150
conn
conn
WOB 32K
PP 825#
SPM 60
RPM 75
conn
Vis 48
Wt. 9.1
LCM 2#
conn
CFS. at 3514'
DST #1
Lans A + B
3498' - 3538'
Corrected to
Log
conn
3350
3400
3450
3500
LM; tan to cream, off wh, fxln w/scat foss mat, fair interpart por, occ chalky mtx, rare dull yel min flour, ns.
LM; tan to cream, buff, fxln, minor chalky mtx, scat lt gy to tan - off wh cht, no vis por, no stn or odor, ns.
LM; tan to lt brn, cream, fxln, scat soft chalky mtx, no fluor, minor amt. of cht, no stn, ns.
HEEBNER SHALE 3388(-1389)
SH; blk, carb ip, platy
LM; med brn, hd, blocky
SH; med gy grn, silty ip, soft to sticky
TORONTO 3408(-1409)
LM; off wh, tan to buff, f xln, rare foss mat, much soft chalky mtx, occ gy cht, poor to fair p-p and interxln por, lt yel min fluor, no stn or odor, ns.
DOUGLAS SHALE 3424(-1425)
SLTST; rust red, red brn, gy, soft
SH; most med gy, firm, silty w/interbdd sltst.
SH; med gy, occ lt gy, fiss to platy, scat pyr
SH; lt to med gy, soft, sticky, platy
BROWN LMST. 3487(-1488)
LM; med brn, foss ip, dense, micritic, pyr ip.
LANSING 'A' 3496(-1497)
LM; off wh, wh, foss ip, occ soft chalky mtx, fair p-p por, rare small vug por, spotted to even lt brn oil stn, med yel fluor, faint to fair odor, VSSFO, med golden yel fluor, fair to gd cut, some very tite - bleeding oil
LM; off wh, wh, fxln to sucrosic text, most dense, cherty, no vis por, ns.
LANSING 'B' 3524(-1525)
LM; off wh, foss to fxln, some well dev. p-p and vug por, med to brite yel fluor, gd oil odor, SSFO, few gas bubbles, gd streaming cut
SH; dk gy to blk, platy
23 Unit Incr.
Shale
TG, C1-C5
0.5
5
50
500
Recycle -
Shale
3 Unit Incr.
SHOW
GAS Line Partially
plugged off -
Readings muted
20 Unit Incr.
SHOW


CFS. at 3540'
MudCo. Mud
Check at 3540'
Vis 51
Wt. 9.0
WL 6.8
Cl 6100
PH 9.5
LCM 1#
conn
Vis 48
Wt. 9.1
LCM 2#
conn
0
ROP (min/ft)
10
0
Gamma (API)
150
WOB 32-34K
PP 900#
SPM 60
RPM 75
conn
Vis 48
Wt. 9.15
LCM 1.5#
conn
WOB 34K
PP 925#
SPM 60
RPM 75
A.V.= 121.5
conn
conn
Vis 47
Wt. 9.3
LCM 1#
3550
3600
3650
3700
3750
DST #1: Lansing 'A' + 'B' 3498'- 3538'
Corrected Depths to the LOG
LM; med brn, v. foss - partly oolitic, most well cem, trc dk brn to blk dead oil stn, lt yel fluor, no odor, most looks tite, occ cherty
SH; dk gy, fiss, occ foss, rare pyr
LM; med gy to gy brn, shaly ip, hd, interbdd foss cht, tite
LANSING 'G' POROSITY 3582(-1583)
LM; lt gy to lt brn, tan, oolitic, most well dev. oomoldic por, some vug por, brittle ip, most rextalized, lt yel min fluor, no stn or odor, no gas kick, barren, ns.
LM; tan to buff, lt brn, most dense, micritic, occ cherty, tite
SH; med to dk gy, platy, occ pyr
LANS/K.C. 'H' 3621(-1622)
LM; lt brn, tan, foss, partly oolitic, fair interpart w/some p-p por, scat soft chalky mtx, dull yel to no fluor, no stn or odor, ns.
SH; med gy to grn, foss ip, platy
LM; tan to buff, off wh, foss to oolitic, fair to gd oomoldic por, much soft chalky mtx, dull yel min fluor, no stn or odor, ns.
SH; med gy grn, firm, pyr ip, calc
K.C. 'J' 3664(-1665)
LM; off wh, buff, tan, foss ip, well cem, occ chalky mtx, no vis por, dull yel min fluor, no stn or odor, ns.
SH; dk gy to blk, platy, occ foss
LM; tan to off wh, lt brn, gran to cse xln, fair to gd interxln por, minor soft chalky mtx, lt to med yel min fluor, no stn or odor, ns.
LM; tan to lt brn, most dense, micritic, blocky, intergdd med to dk gy cht, no vis por, ns.
BASE KANSAS CITY 3710(-1711)
SH; varic, most rust red, grn, brn, foss ip, scat pyr, interbdd hd lmst strngs.
MARMATON 3721(-1722)
LM; tan to off wh, buff, med xln w/scat foss mat, much soft chalky mtx, dull yel to no fluor, no vis por, no stn, ns.
SH; varic, grn, rust red, brn, dk gy, fiss, interbdd thin hd lmst strngs, occ pyr
CONGLOMERATE 3753(-1754)
CHT & LMST; varic cht, org, off wh, much weathered
TG, C1-C5
0.5
5
50
500
Gas Test
Gas Test at


conn
A.V.= 121.0
conn
0
0
ROP (min/ft)
Gamma (API)
10
150
DST #2
Simpson SS -
Arbuckle
3755' - 3858'
Corrected to
LOG
MudCo. Mud
Check at 3829'
Vis 52
Wt. 9.2
WL 7.2
Cl 7200
PH 9.5
LCM 1#
CFS. at 3856'
CFS. at 3859'
3800
3850
3900
50
nodular red/brn and grn lmst, no vis por, fracs in cht, dull yel fluor, interbdd tan to pale org gritty lmst
SH; varic, platy to flakey, scat weathered nodular lmst.
CHT & LMST; varic, weathered nodular red and grn lmst, org, yel and off wh cht, dull to lt yel min fluor, no stn or odor, ns.
CONGLOM; grn to yel, wh, sandy grn shales, hd, some nodular lmst
SIMPSON SHALE 3804(-1805)
SH; varic, much maroon, rust red/brn, brite grn, soft and sticky - some sloughing shale
SS; dk gy-clr, f gr, v. shaly, hd, some qtzitic, some blk dead oil flakes ns.
SH; sea grn/turquoise, platy/gumbo-sticky, med gr qtz ss w/dk brn redsidual oil stn, gd to strong odor, med golden yel fluor, occ hd pyr clusters
SIMPSON SAND 3840(-1841)
SS; clr, lt brn, f to med gr, clusters, most fri, shaly ip, brite golden yel fluor, even med brn stn to oil saturated, fair to gd por, SFO, gd odor, v. gd cut
ARBUCKLE 3854(-1855)
DOL; wh to tan/brn, med to csely rhombic, fair to gd interxln w/occ well dev. lrg vug por, fair to GSFO, gd/strong odor, hd lmy dolo at top, med to brite yel fluor, gd to exc. cut, trc oolitic cht
DST #2: SimpSS/Arbuckle 3755'-3858'
Corrected Depths to the LOG
RTD. 3859' at 12:15 PM. 12/18/10
LTD. 3858'
LOG TECH: DIL, Dual Porosity, Microlog, B.H. Gamma Ray
Extractor
TG, C1-C5
0.5
5
50
500
6 Unit Incr.
SHOW
12 Unit Incr.
20 Unit Incr.
SHOWS