# LITHOLOGY STRIP LOG

## WellSight Systems

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

| | | | |
|---|---|---|---|
| **Well Name:** | VINCENT OIL CORP. DERSTEIN #3-34 | | |
| **API:** | 15-057-20942-00-00 | | |
| **Location:** | SE,SE,NE,SW SEC. 34, T 27S, R 23W, FORD CO. KS. | | |
| **License Number:** | 15-057-20942-00-00 | **Region:** | STEEL SOUTH |
| **Spud Date:** | October 1st, 2014 | **Drilling Completed:** | October 10th 2014 |
| **Surface Coordinates:** | 1,390' FSL, 2,400' FWL | | |
| **Bottom Hole Coordinates:** | | | |
| **Ground Elevation (ft):** | 2,448' | **K.B. Elevation (ft):** | 2,460' |
| **Logged Interval (ft):** | 4,100' **To:** 5,175' | **Total Depth (ft):** | 5,175' |
| **Formation:** | Mississippi | | |
| **Type of Drilling Fluid:** | NATIVE MUD TO 3,787'. CHEMICAL GEL TO RTD | | |



### OPERATOR


**Company:** VINCENT OIL CORP.
**Address:** 155 N. MARKET STE 700
WICHITA, KANSAS 67202-1821
OFFICE; 316-262-3573


### GEOLOGIST


**Name:** Jame R. Hall Well Site Supervision
**Company:** Black Gold Petroleum
**Address:** 5530 N. Sedgwick
Wichita, Kansas 67204-1828
316-838-2574

## Comments

**Drilling contractor: Duke Drilling, Rig #1, Tool Pusher; Mike Godfrey.**

**Surface Casing: 8 5/8" set at 653' w/250sx, cement.**

**Daily Activity: @07:00 hrs.**
**10/01/14; Moving on and spud @ 18:15 hrs.**
**10/02/14; 655'. Drilled 12 1/4" hole to 655', preparing to run 8 5/8" surface casing.**
**10/03/14; 1,414' drilling ahead.**
**10/04/14; 2,573' drilling ahead.**
**10/05/14; 3,360' drilling ahead.**
**10/06/14; 4,164' drilling ahead. Displace native mud for chemical gel system @ 3,787'.**
**10/07/14; 4,720' drilling ahead. Worked on mud pump at 4,638', commenced building LCM to 2-3# @ 4,655'. Circulate Pawnee @ 4,910' and bit trip, (strap pipe 2.62' short).**
**10/08/14; 4,954' drilling ahead.**
**10/09/14; 5,062' running DST #1 5,030' - 5,062 (32'), Morrow.**
**10/10/14; 5,070' finishing DST #2 5,028 - 5,070' (42'). Morrow. Drilled to RTD 5,175, and ran open hole logs.**
**10/11/14; Ran production casing.**

**Deviation Surveys: 1 deg. @ 655', 1 deg. @ 1,415', 1 deg. @ 1,930', 1 deg. @ 2,466', 1/2 deg. @ 5,062', 0.75 deg. @ 5,175'.**

**Bit Record:**
**#1 12 1/4" out @ 655'.**
**#2 7 7/8" Varel HE 21 in @ 655', out @ 4,910', made 4,255'.**
**#3 7 7/8" Varel HE 29 RR in @ 4,910', out @ 5,175, made 265'.**

**Drilling time commenced: @ 4,050'. Maximum 10' wet and dry samples commenced: @ 4,100' to RTD. Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.**

**Gas Detector: Blue Stem unit #0779. Digital Unit, (commenced @ 4,050').**

**Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,787', Mud Engineer: Justen Whitin (Dodge City Office).**

**Open Hole Logs: , Kansas,**
**Logging Engineer: Jeff Groneweg.**
**DIL, CDL/CNL/PE, MEL. detail to 4,050'. SONIC detail to base of surface casing (653').**

**Sample tops are placed on this strip log, with the reference wells "A" Vincent Derstein #2-34 2,637' FNL, 2,275' FWL 34-T27S-R23W, and "B" Vincent Steele #1-34 330' FSL, 1,880' FEL, 34 .-T27S-R23W. E-log tops, datum differences shown.**

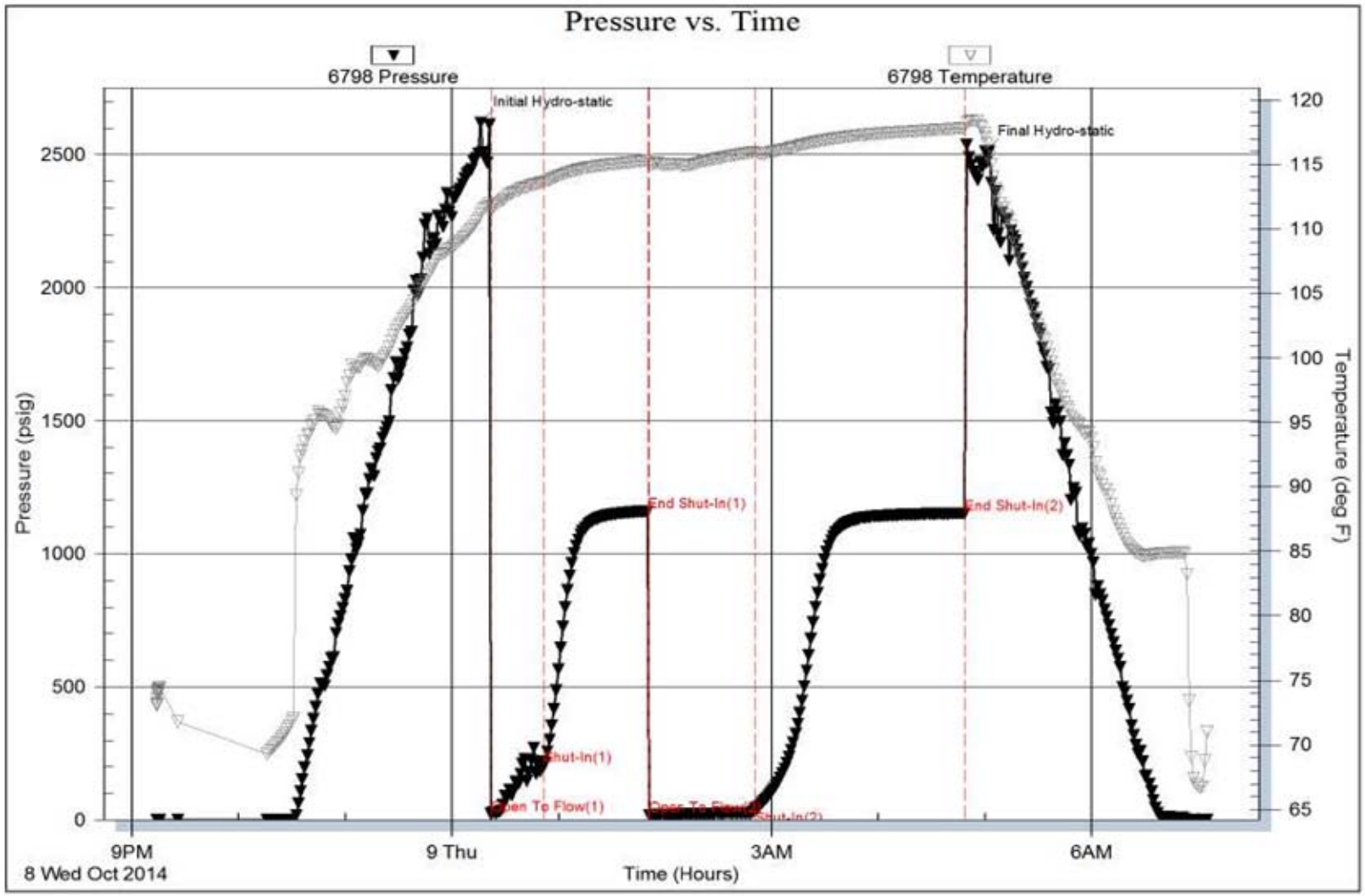
**The gamma ray and caliper have been placed on this Geologic Strip Log. The gamma and caliper were not adjusted to Strip Log depth, therefore they are approximately 2' to 3' deeper than Strip Log depths.**

## DSTs

**DST #1 5,030' - 5,062' (32'), 30-60-60-120, IH 2620, IF 21-208 (weak 1/8" blow), ISI 1158 (no blow), FF 20-40 (weak blow building to BOB in 39min), FSI 1151 (no blow), FH 2511, Rec; 30' OCM (40%oil,60%mud), BHT 118.**

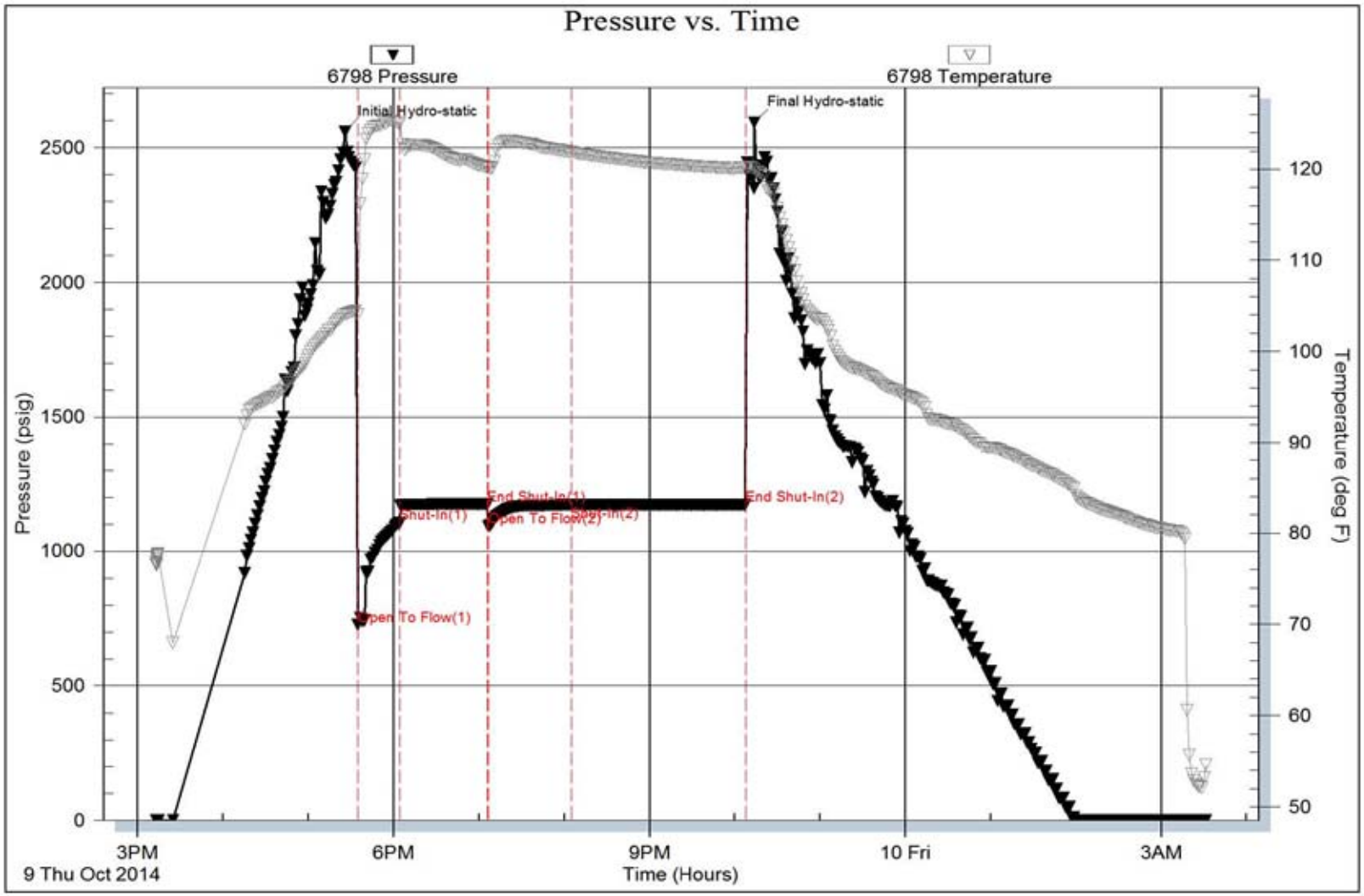
**DST #2 5,028' - 5,070' (42'), 30-60-60-120, IH 2560, IF 727-1106 (BOB 30sec.), ISI 1174 (BOB 12min), FF 1092-1171 (BOB 90sec., GTS 27min TSTM), FSI 1172 (1/2inch blow), FH 2594, Rec; 2,060' GIP, 2,418' GCO (10%gas,90%oil), 186' GWMCO (10%gas,50%oil,20%water,20%mud), 310' MOCW (10%oil,85%water,5%mud), 62' SOCW (5%oil,95%water), BHT 120, Oil gravity 29.4 API, Rwa 0.15 @ 55F (0.068 @ 120F), Chl 65,000ppm, Chl Mud 6,700ppm.**

Serial #: 6798 **Inside** Vincent Oil Corporation Derstein 3-34 DST Test Number: 1




Trilobite Testing, Inc Ref. No: 57770 Printed: 2014.10.09 @ 08:09:00

Serial #: 6798 **Inside** Vincent Oil Corporation Derstein 3-34 DST Test Number: 2




Trilobite Testing, Inc Ref. No: 57771 Printed: 2014.10.10 @ 04:50:10

**WELL SITE OPERATIONS / JIM HALL SUPERVISOR**
**OPERATOR:** Vincent Oil Corp.
**WELL REFERENCE SHEET** **SUBJECT WELL:** Derstein #3-34
**SUBJECT WELL LOCATION:** SE SE NE SW 34-27S-23W
**SUBJECT WELL DATUM:** **2,460**

**REF. WELL 'A'** Derstein #2-34 NW/4 34-27S-23W **DATUM:** **2,455**

**REF. WELL 'B'** Steele #1-34 SE/4 34-27-23W **DATUM:** **2,461**

***E-LOG TOPS***

| **SUBJECT WELL:** | | | **WELL 'A'** | | | **WELL 'B'** | | |
|---|---|---|---|---|---|---|---|---|
| **ZONE** | **DEPTH** | **DATUM** | **DEPTH** | **DATUM** | **REF.** | **DEPTH** | **DATUM** | **REF.** |
| HEEB. | 4,212 | -1,752 | 4,226 | -1,771 | 19 | 4,207 | -1,746 | -6 |
| Brown Ls. | 4,338 | -1,878 | 4,351 | -1,896 | 18 | 4,334 | -1,873 | -5 |
| Lansing | 4,348 | -1,888 | 4,361 | -1,906 | 18 | 4,343 | -1,882 | -6 |
| Stark Sh | 4,688 | -2,228 | 4,695 | -2,240 | 12 | 4,684 | -2,223 | -5 |
| Hushp. Sh | 4,734 | -2,274 | 4,740 | -2,285 | 11 | 4,729 | -2,268 | -6 |
| Marmaton | 4,820 | -2,360 | 4,830 | -2,375 | 15 | 4,816 | -2,355 | -5 |
| PAWNEE | 4,892 | -2,432 | 4,904 | -2,449 | 17 | 4,886 | -2,425 | -7 |
| Labette Sh | 4,916 | -2,456 | 4,927 | -2,472 | 16 | 4,912 | -2,451 | -5 |
| CKE Sh | 4,938 | -2,478 | 4,948 | -2,493 | 15 | 4,932 | -2,471 | -7 |
| 2nd CKE | 4,970 | -2,510 | 4,981 | -2,526 | 16 | 4,966 | -2,505 | -5 |
| B/Penn. | 5,046 | -2,586 | 5,047 | -2,592 | 16 | 5,031 | -2,570 | -6 |
| SAND #1 | 5,044 | -2,584 | 5,053 | -2,598 | 14 | 5,047 | -2,586 | 2 |
| SAND #2 | 5,068 | -2,608 | 5,073 | -2,618 | 10 | 5,093 | -2,632 | 24 |
| MISS. | 5,108 | -2,648 | 5,087 | -2,632 | -16 | 5,106 | -2,645 | -3 |
| 1st Por. | 5,112 | -2,652 | 5,123 | -2,668 | 16 | 5,109 | -2,648 | -4 |

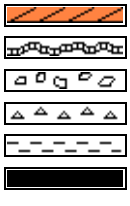
## Qualifiers

**CARBONATE CLASSIFICATION:**

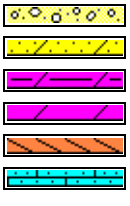
**AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. MUDSTONE; muddy carbonate rocks containing less than 10% grains. WACKESTONE; mud supported carbonate rocks with more than 10% grains. PACKSTONE; grain supported muddy carbonate rocks. GRAINSTONE; mud free carbonate rock, grain supported. BOUNDSTONE; carbonate rock bound together at deposition (coral, etc.). CRYSTALLINE CARBONATE; carbonate rock retaining to little of their depositional texture to be classified.**

**Qualifiers; (Fossils, Minerals, Shows, Porosity, etc.) rare = less than 1% of sample total, trace = less than 5% of sample total, greater than 5% an estimate of total percentage.**

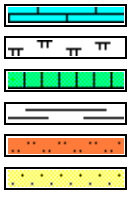
## ROCK TYPES



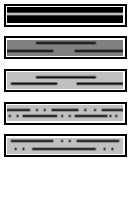
Anhy
Bent
Brec
Cht
Clyst
Coal



Congl
Sdy dolo
Shy dolo
Dol
Gyp
Sdy lmst



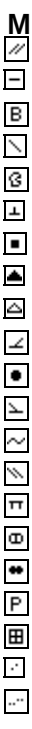
Lmst
Mrlst
Salt
Shale
Sltst
Ss



Black sh
Gry sh
Shale
Shysltst
Sltysh

## ACCESSORIES

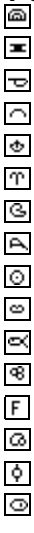
### MINERAL



Anhy
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Ferrpel
Ferr
Glau
Gyp
Marl
Nodule
Phos
Pyr
Salt
Sandy
Silt

Chlorite
Dol
Sand
Slty

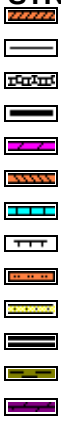
### FOSSIL



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

Pelec
Pelloidal
Pisolite
Plant
Strom
Fuss
Oomoldic

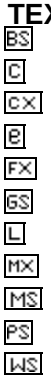
### STRINGER



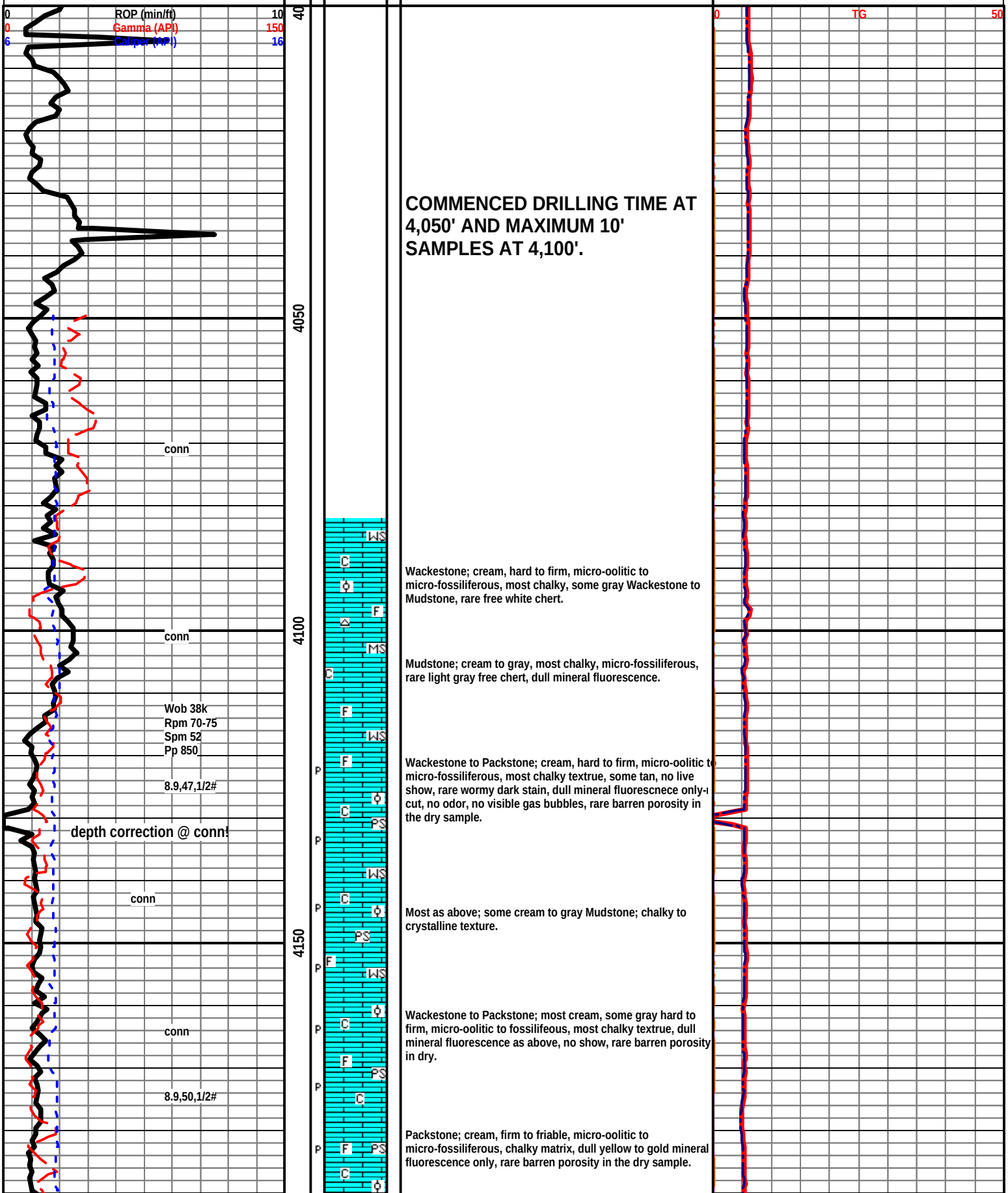
Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh
Clystn
Dol

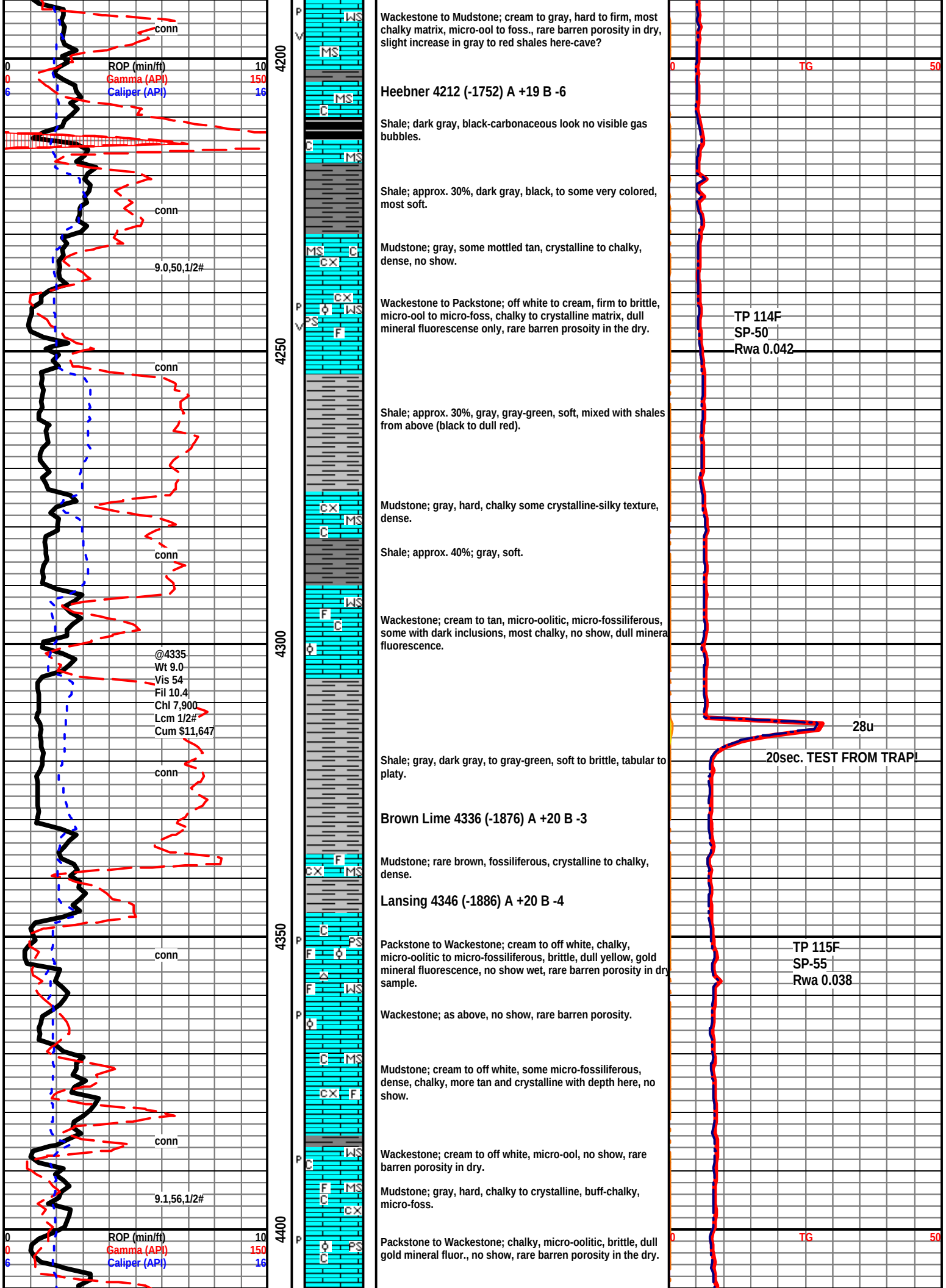
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

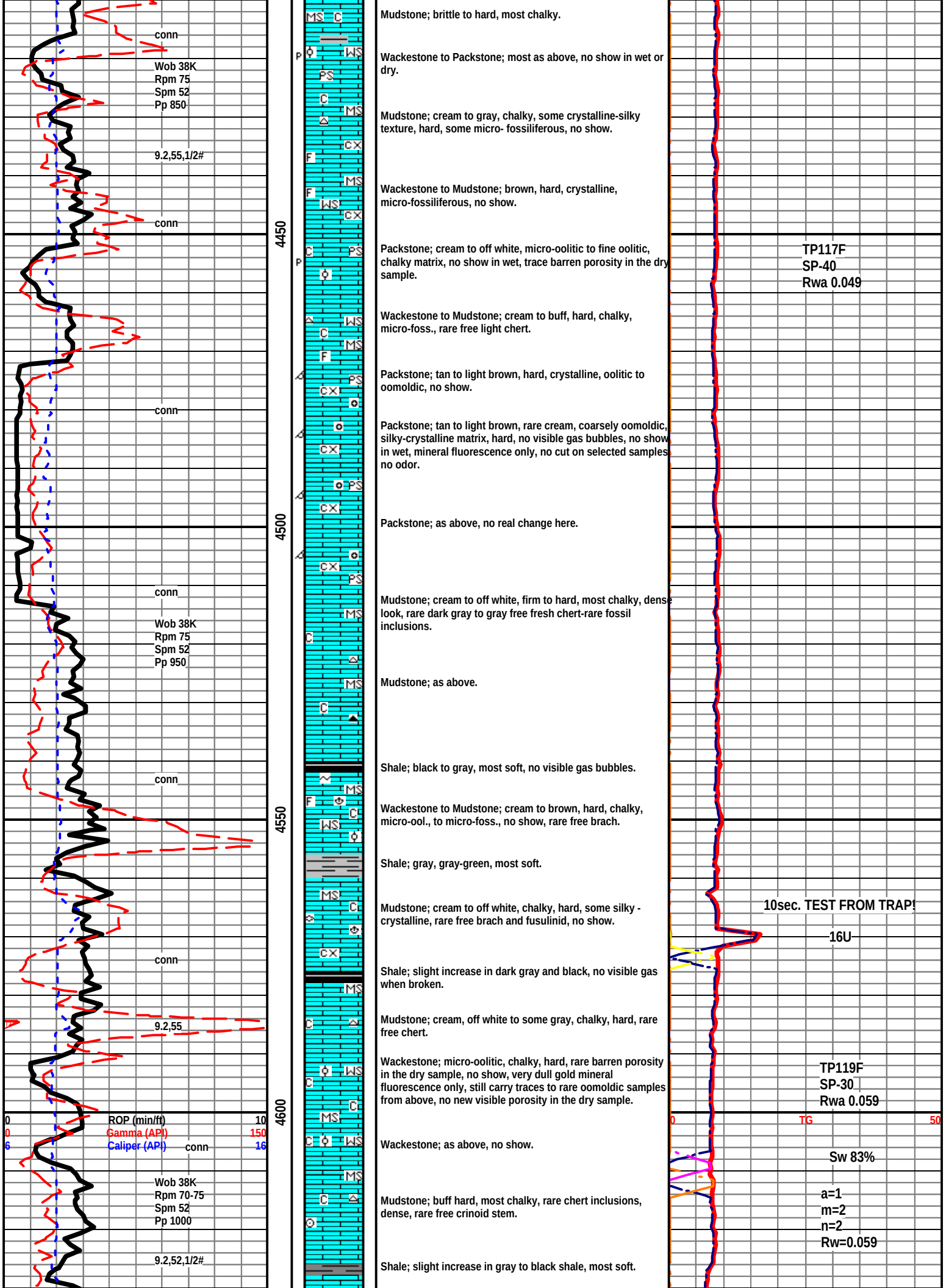
### TEXTURE

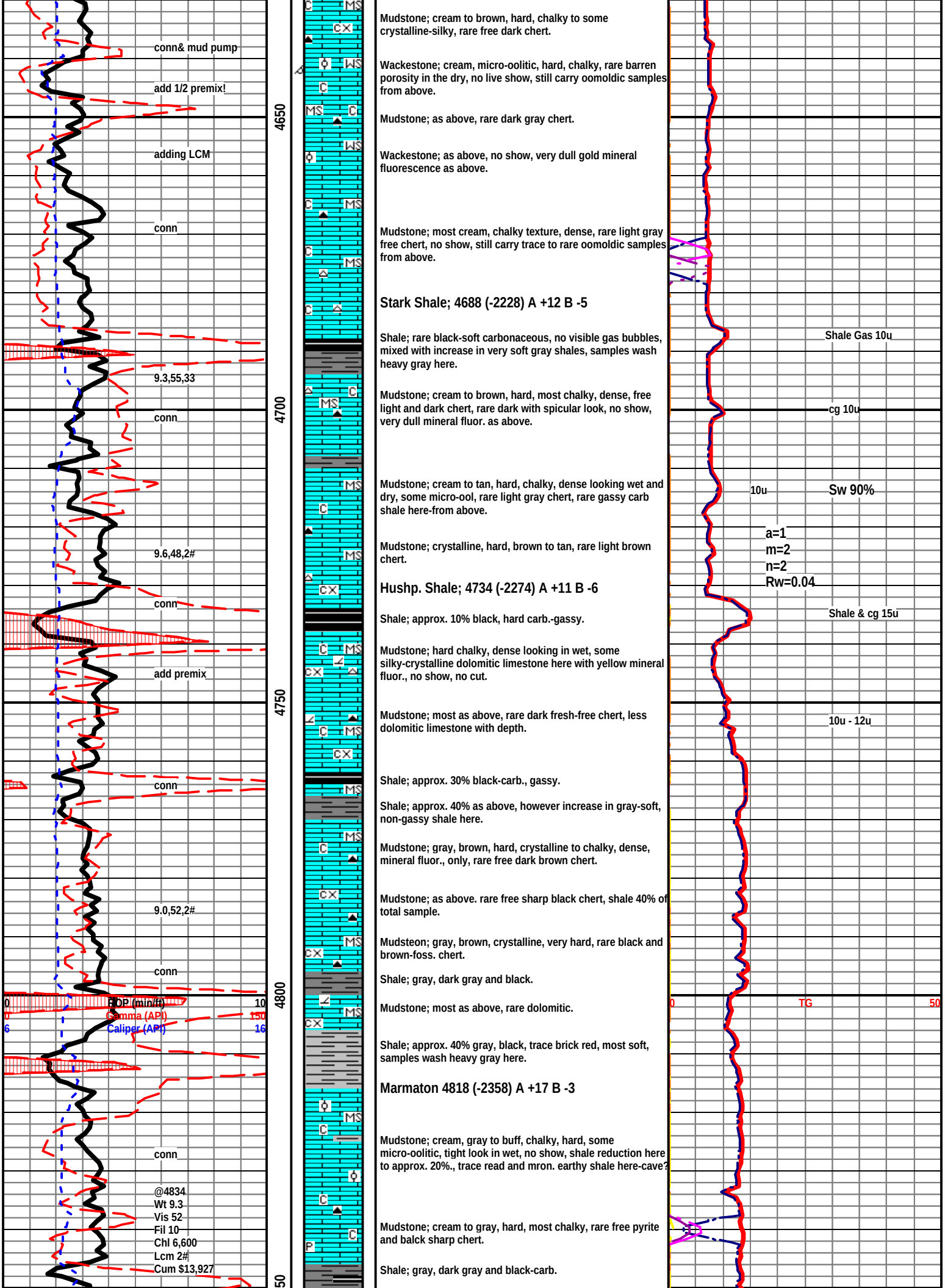


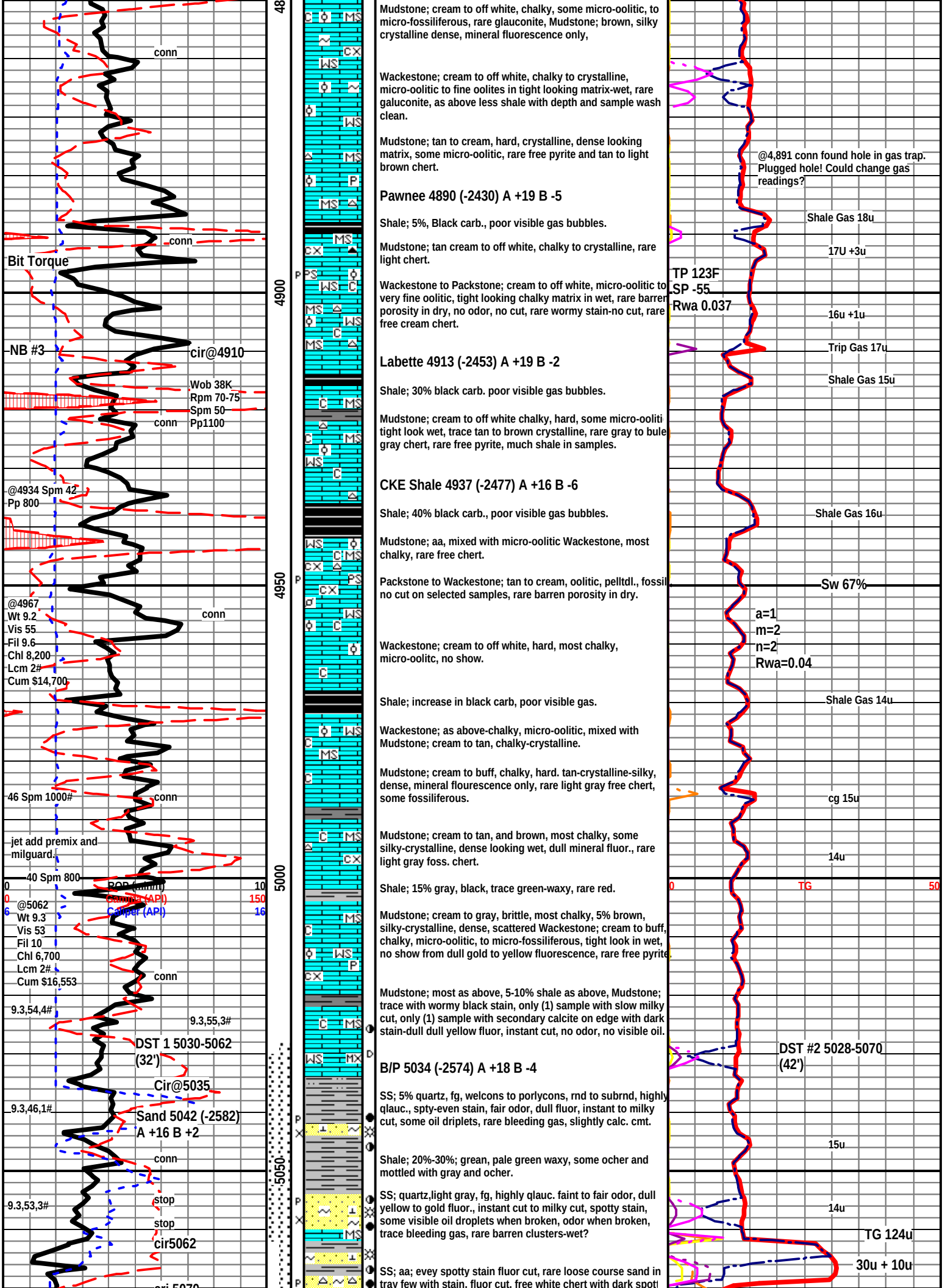
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

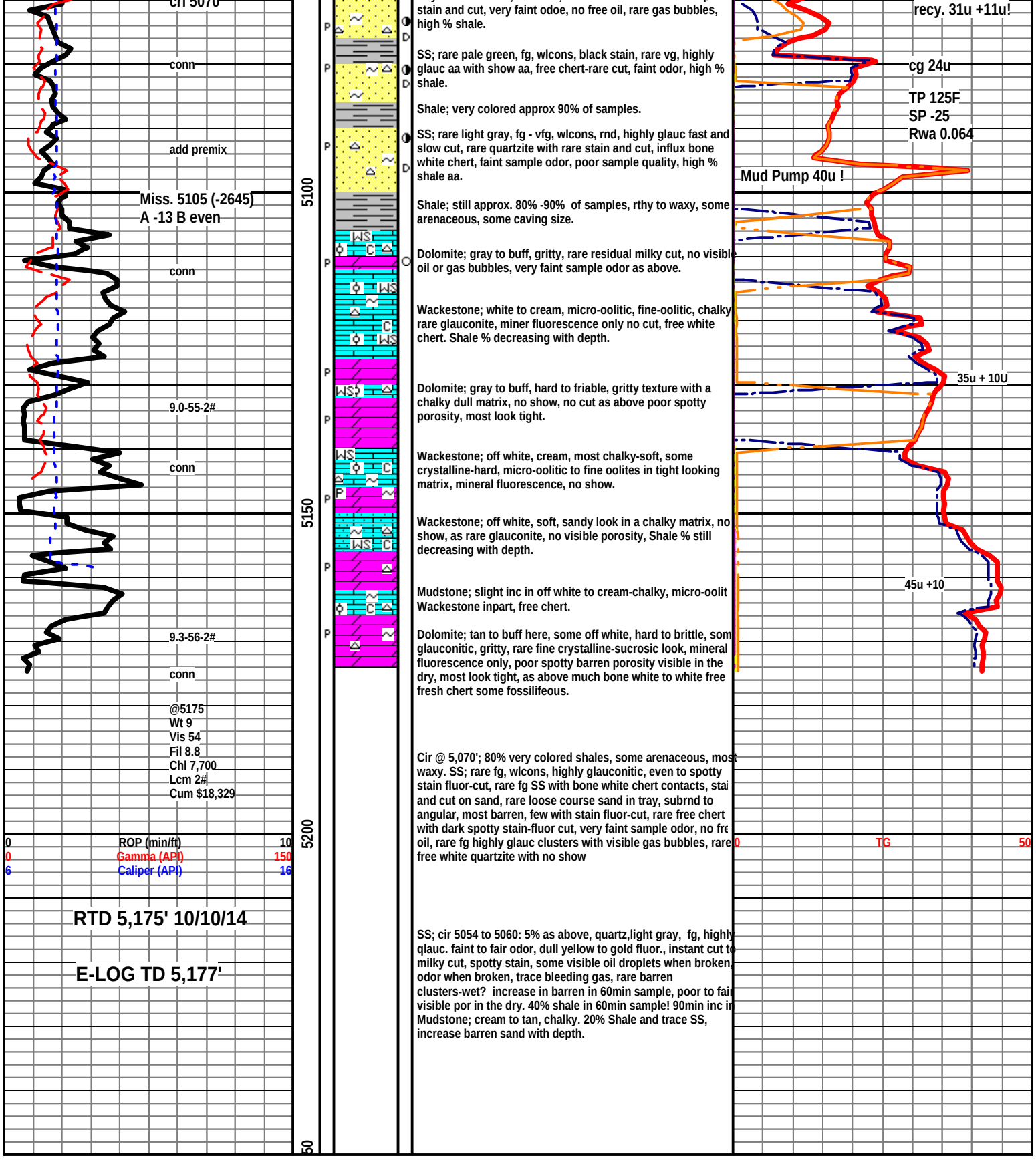

Curve Track 1
ROP (min/ft)
Gamma (API)
Caliper (API)
Depth
Porosity Type
Lithology
Oil Shows
Geological Descriptions
TG, C1-C5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
0 ROP (min/ft) 10
0 Gamma (API) 150
6 Caliper (API) 16
0 TG 50
40
4050
4100
4150
conn
conn
Wob 38k
Rpm 70-75
Spm 52
Pp 850
8.9,47,1/2#
depth correction @ conn!
conn
conn
8.9,50,1/2#
COMMENCED DRILLING TIME AT 4,050' AND MAXIMUM 10' SAMPLES AT 4,100'.
Wackestone; cream, hard to firm, micro-oolitic to micro-fossiliferous, most chalky, some gray Wackestone to Mudstone, rare free white chert.
Mudstone; cream to gray, most chalky, micro-fossiliferous, rare light gray free chert, dull mineral fluorescence.
Wackestone to Packstone; cream, hard to firm, micro-oolitic to micro-fossiliferous, most chalky textrue, some tan, no live show, rare wormy dark stain, dull mineral fluorescnece only-i cut, no odor, no visible gas bubbles, rare barren porosity in the dry sample.
Most as above; some cream to gray Mudstone; chalky to crystalline texture.
Wackestone to Packstone; most cream, some gray hard to firm, micro-oolitic to fossilifeous, most chalky textrue, dull mineral fluorescence as above, no show, rare barren porosity in dry.
Packstone; cream, firm to friable, micro-oolitic to micro-fossiliferous, chalky matrix, dull yellow to gold mineral fluorescence only, rare barren porosity in the dry sample.


ROP (min/ft) 0 10
Gamma (API) 0 150
Caliper (API) 6 16
TG 0 50
4200
4250
4300
4350
4400
conn
9.0,50,1/2#
@4335
Wt 9.0
Vis 54
Fil 10.4
Chl 7,900
Lcm 1/2#
Cum $11,647
9.1,56,1/2#
Wackestone to Mudstone; cream to gray, hard to firm, most chalky matrix, micro-ool to foss., rare barren porosity in dry, slight increase in gray to red shales here-cave?
Heebner 4212 (-1752) A +19 B -6
Shale; dark gray, black-carbonaceous look no visible gas bubbles.
Shale; approx. 30%, dark gray, black, to some very colored, most soft.
Mudstone; gray, some mottled tan, crystalline to chalky, dense, no show.
Wackestone to Packstone; off white to cream, firm to brittle, micro-ool to micro-foss, chalky to crystalline matrix, dull mineral fluorescense only, rare barren prosoity in the dry.
TP 114F
SP-50
Rwa 0.042
Shale; approx. 30%, gray, gray-green, soft, mixed with shales from above (black to dull red).
Mudstone; gray, hard, chalky some crystalline-silky texture, dense.
Shale; approx. 40%; gray, soft.
Wackestone; cream to tan, micro-oolitic, micro-fossiliferous, some with dark inclusions, most chalky, no show, dull minera fluorescence.
28u
20sec. TEST FROM TRAP!
Shale; gray, dark gray, to gray-green, soft to brittle, tabular to platy.
Brown Lime 4336 (-1876) A +20 B -3
Mudstone; rare brown, fossiliferous, crystalline to chalky, dense.
Lansing 4346 (-1886) A +20 B -4
Packstone to Wackestone; cream to off white, chalky, micro-oolitic to micro-fossiliferous, brittle, dull yellow, gold mineral fluorescence, no show wet, rare barren porosity in dry sample.
TP 115F
SP-55
Rwa 0.038
Wackestone; as above, no show, rare barren porosity.
Mudstone; cream to off white, some micro-fossiliferous, dense, chalky, more tan and crystalline with depth here, no show.
Wackestone; cream to off white, micro-ool, no show, rare barren porosity in dry.
Mudstone; gray, hard, chalky to crystalline, buff-chalky, micro-foss.
Packstone to Wackestone; chalky, micro-oolitic, brittle, dull gold mineral fluor., no show, rare barren porosity in the dry.


conn
Wob 38K
Rpm 75
Spm 52
Pp 850
9.2,55,1/2#
conn
4450
Mudstone; brittle to hard, most chalky.
Wackestone to Packstone; most as above, no show in wet or dry.
Mudstone; cream to gray, chalky, some crystalline-silky texture, hard, some micro- fossiliferous, no show.
Wackestone to Mudstone; brown, hard, crystalline, micro-fossiliferous, no show.
Packstone; cream to off white, micro-oolitic to fine oolitic, chalky matrix, no show in wet, trace barren porosity in the dry sample.
TP117F
SP-40
Rwa 0.049
Wackestone to Mudstone; cream to buff, hard, chalky, micro-foss., rare free light chert.
Packstone; tan to light brown, hard, crystalline, oolitic to oomoldic, no show.
conn
Packstone; tan to light brown, rare cream, coarsely oomoldic, silky-crystalline matrix, hard, no visible gas bubbles, no show in wet, mineral fluorescence only, no cut on selected samples, no odor.
4500
Packstone; as above, no real change here.
conn
Wob 38K
Rpm 75
Spm 52
Pp 950
Mudstone; cream to off white, firm to hard, most chalky, dense look, rare dark gray to gray free fresh chert-rare fossil inclusions.
Mudstone; as above.
Shale; black to gray, most soft, no visible gas bubbles.
conn
Wackestone to Mudstone; cream to brown, hard, chalky, micro-ool., to micro-foss., no show, rare free brach.
4550
Shale; gray, gray-green, most soft.
Mudstone; cream to off white, chalky, hard, some silky - crystalline, rare free brach and fusulinid, no show.
10sec. TEST FROM TRAP!
16U
conn
Shale; slight increase in dark gray and black, no visible gas when broken.
9.2,55
Mudstone; cream, off white to some gray, chalky, hard, rare free chert.
Wackestone; micro-oolitic, chalky, hard, rare barren porosity in the dry sample, no show, very dull gold mineral fluorescence only, still carry traces to rare oomoldic samples from above, no new visible porosity in the dry sample.
TP119F
SP-30
Rwa 0.059
4600
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Caliper (API)
conn
16
0
TG
50
Wackestone; as above, no show.
Sw 83%
Wob 38K
Rpm 70-75
Spm 52
Pp 1000
Mudstone; buff hard, most chalky, rare chert inclusions, dense, rare free crinoid stem.
a=1
m=2
n=2
Rw=0.059
9.2,52,1/2#
Shale; slight increase in gray to black shale, most soft.


conn& mud pump
add 1/2 premix!
adding LCM
conn
9.3,55,33
conn
9.6,48,2#
conn
add premix
conn
9.0,52,2#
conn
conn
@4834
Wt 9.3
Vis 52
Fil 10
Chl 6,600
Lcm 2#
Cum $13,927
4650
4700
4750
4800
4850
ROP (min/ft)
Gamma (API)
Caliper (API)
Mudstone; cream to brown, hard, chalky to some crystalline-silky, rare free dark chert.
Wackestone; cream, micro-oolitic, hard, chalky, rare barren porosity in the dry, no live show, still carry oomoldic samples from above.
Mudstone; as above, rare dark gray chert.
Wackestone; as above, no show, very dull gold mineral fluorescence as above.
Mudstone; most cream, chalky texture, dense, rare light gray free chert, no show, still carry trace to rare oomoldic samples from above.
Stark Shale; 4688 (-2228) A +12 B -5
Shale; rare black-soft carbonaceous, no visible gas bubbles, mixed with increase in very soft gray shales, samples wash heavy gray here.
Mudstone; cream to brown, hard, most chalky, dense, free light and dark chert, rare dark with spicular look, no show, very dull mineral fluor. as above.
Mudstone; cream to tan, hard, chalky, dense looking wet and dry, some micro-ool, rare light gray chert, rare gassy carb shale here-from above.
Mudstone; crystalline, hard, brown to tan, rare light brown chert.
Hushp. Shale; 4734 (-2274) A +11 B -6
Shale; approx. 10% black, hard carb.-gassy.
Mudstone; hard chalky, dense looking in wet, some silky-crystalline dolomitic limestone here with yellow mineral fluor., no show, no cut.
Mudstone; most as above, rare dark fresh-free chert, less dolomitic limestone with depth.
Shale; approx. 30% black-carb., gassy.
Shale; approx. 40% as above, however increase in gray-soft, non-gassy shale here.
Mudstone; gray, brown, hard, crystalline to chalky, dense, mineral fluor., only, rare free dark brown chert.
Mudstone; as above. rare free sharp black chert, shale 40% of total sample.
Mudsteon; gray, brown, crystalline, very hard, rare black and brown-foss. chert.
Shale; gray, dark gray and black.
Mudstone; most as above, rare dolomitic.
Shale; approx. 40% gray, black, trace brick red, most soft, samples wash heavy gray here.
Marmaton 4818 (-2358) A +17 B -3
Mudstone; cream, gray to buff, chalky, hard, some micro-oolitic, tight look in wet, no show, shale reduction here to approx. 20%., trace read and mron. earthy shale here-cave?
Mudstone; cream to gray, hard, most chalky, rare free pyrite and balck sharp chert.
Shale; gray, dark gray and black-carb.
Shale Gas 10u
cg 10u
10u
Sw 90%
a=1
m=2
n=2
Rw=0.04
Shale & cg 15u
10u - 12u
TG


conn
conn
Bit Torque
NB #3
cir@4910
Wob 38K
Rpm 70-75
Spm 50
conn
Pp1100
@4934 Spm 42
Pp 800
@4967
Wt 9.2
Vis 55
Fil 9.6
Chl 8,200
Lcm 2#
Cum $14,700
conn
46 Spm 1000#
conn
jet add premix and
milguard
40 Spm 800
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Caliper (API)
16
@5062
Wt 9.3
Vis 53
Fil 10
Chl 6,700
Lcm 2#
Cum $16,553
conn
9.3,54,4#
9.3,55,3#
DST 1 5030-5062
(32')
Cir@5035
9.3,46,1#
Sand 5042 (-2582)
A +16 B +2
conn
9.3,53,3#
stop
stop
cir5062
4900
4950
5000
5050
Mudstone; cream to off white, chalky, some micro-oolitic, to micro-fossiliferous, rare glauconite, Mudstone; brown, silky crystalline dense, mineral fluorescence only,
Wackestone; cream to off white, chalky to crystalline, micro-oolitic to fine oolites in tight looking matrix-wet, rare galuconite, as above less shale with depth and sample wash clean.
Mudstone; tan to cream, hard, crystalline, dense looking matrix, some micro-oolitic, rare free pyrite and tan to light brown chert.
Pawnee 4890 (-2430) A +19 B -5
Shale; 5%, Black carb., poor visible gas bubbles.
Mudstone; tan cream to off white, chalky to crystalline, rare light chert.
Wackestone to Packstone; cream to off white, micro-oolitic to very fine oolitic, tight looking chalky matrix in wet, rare barren porosity in dry, no odor, no cut, rare wormy stain-no cut, rare free cream chert.
Labette 4913 (-2453) A +19 B -2
Shale; 30% black carb. poor visible gas bubbles.
Mudstone; cream to off white chalky, hard, some micro-ooliti tight look wet, trace tan to brown crystalline, rare gray to bule gray chert, rare free pyrite, much shale in samples.
CKE Shale 4937 (-2477) A +16 B -6
Shale; 40% black carb., poor visible gas bubbles.
Mudstone; aa, mixed with micro-oolitic Wackestone, most chalky, rare free chert.
Packstone to Wackestone; tan to cream, oolitic, pelltdl., fossil no cut on selected samples, rare barren porosity in dry.
Wackestone; cream to off white, hard, most chalky, micro-oolitc, no show.
Shale; increase in black carb, poor visible gas.
Wackestone; as above-chalky, micro-oolitic, mixed with Mudstone; cream to tan, chalky-crystalline.
Mudstone; cream to buff, chalky, hard. tan-crystalline-silky, dense, mineral flourescence only, rare light gray free chert, some fossiliferous.
Mudstone; cream to tan, and brown, most chalky, some silky-crystalline, dense looking wet, dull mineral fluor., rare light gray foss. chert.
Shale; 15% gray, black, trace green-waxy, rare red.
Mudstone; cream to gray, brittle, most chalky, 5% brown, silky-crystalline, dense, scattered Wackestone; cream to buff, chalky, micro-oolitic, to micro-fossiliferous, tight look in wet, no show from dull gold to yellow fluorescence, rare free pyrite.
Mudstone; most as above, 5-10% shale as above, Mudstone; trace with wormy black stain, only (1) sample with slow milky cut, only (1) sample with secondary calcite on edge with dark stain-dull dull yellow fluor, instant cut, no odor, no visible oil.
B/P 5034 (-2574) A +18 B -4
SS; 5% quartz, fg, welcons to porlycons, rnd to subrnd, highly qlauc., spty-even stain, fair odor, dull fluor, instant to milky cut, some oil driplets, rare bleeding gas, slightly calc. cmt.
Shale; 20%-30%; grean, pale green waxy, some ocher and mottled with gray and ocher.
SS; quartz,light gray, fg, highly qlauc. faint to fair odor, dull yellow to gold fluor., instant cut to milky cut, spotty stain, some visible oil droplets when broken, odor when broken, trace bleeding gas, rare barren clusters-wet?
SS; aa; evey spotty stain fluor cut, rare loose course sand in
@4,891 conn found hole in gas trap.
Plugged hole! Could change gas
readings?
Shale Gas 18u
17U +3u
TP 123F
SP -55
Rwa 0.037
16u +1u
Trip Gas 17u
Shale Gas 15u
Shale Gas 16u
Sw 67%
a=1
m=2
n=2
Rwa=0.04
Shale Gas 14u
cg 15u
14u
0
TG
50
DST #2 5028-5070
(42')
15u
14u
TG 124u
30u + 10u


chl 5070
conn
add premix
Miss. 5105 (-2645)
A -13 B even
conn
9.0-55-2#
conn
9.3-56-2#
conn
@5175
Wt 9
Vis 54
Fil 8.8
Chl 7,700
Lcm 2#
Cum $18,329
0
ROP (min/ft)
10
0
Gamma (API)
150
6
Caliper (API)
16
RTD 5,175' 10/10/14
E-LOG TD 5,177'
5100
5150
5200
50
stain and cut, very faint odoe, no free oil, rare gas bubbles, high % shale.
SS; rare pale green, fg, wlcons, black stain, rare vg, highly glauc aa with show aa, free chert-rare cut, faint odor, high % shale.
Shale; very colored approx 90% of samples.
SS; rare light gray, fg - vfg, wlcons, rnd, highly glauc fast and slow cut, rare quartzite with rare stain and cut, influx bone white chert, faint sample odor, poor sample quality, high % shale aa.
Shale; still approx. 80% -90% of samples, rthy to waxy, some arenaceous, some caving size.
Dolomite; gray to buff, gritty, rare residual milky cut, no visible oil or gas bubbles, very faint sample odor as above.
Wackestone; white to cream, micro-oolitic, fine-oolitic, chalky rare glauconite, miner fluorescence only no cut, free white chert. Shale % decreasing with depth.
Dolomite; gray to buff, hard to friable, gritty texture with a chalky dull matrix, no show, no cut as above poor spotty porosity, most look tight.
Wackestone; off white, cream, most chalky-soft, some crystalline-hard, micro-oolitic to fine oolites in tight looking matrix, mineral fluorescence, no show.
Wackestone; off white, soft, sandy look in a chalky matrix, no show, as rare glauconite, no visible porosity, Shale % still decreasing with depth.
Mudstone; slight inc in off white to cream-chalky, micro-oolit Wackestone inpart, free chert.
Dolomite; tan to buff here, some off white, hard to brittle, som glauconitic, gritty, rare fine crystalline-sucrosic look, mineral fluorescence only, poor spotty barren porosity visible in the dry, most look tight, as above much bone white to white free fresh chert some fossilifeous.
Cir @ 5,070'; 80% very colored shales, some arenaceous, most waxy. SS; rare fg, wlcons, highly glauconitic, even to spotty stain fluor-cut, rare fg SS with bone white chert contacts, stai and cut on sand, rare loose course sand in tray, subrnd to angular, most barren, few with stain fluor-cut, rare free chert with dark spotty stain-fluor cut, very faint sample odor, no fre oil, rare fg highly glauc clusters with visible gas bubbles, rare free white quartzite with no show
SS; cir 5054 to 5060: 5% as above, quartz,light gray, fg, highly qlauc. faint to fair odor, dull yellow to gold fluor., instant cut to milky cut, spotty stain, some visible oil droplets when broken, odor when broken, trace bleeding gas, rare barren clusters-wet? increase in barren in 60min sample, poor to fai visible por in the dry. 40% shale in 60min sample! 90min inc in Mudstone; cream to tan, chalky. 20% Shale and trace SS, increase barren sand with depth.
recy. 31u +11u!
cg 24u
TP 125F
SP -25
Rwa 0.064
Mud Pump 40u !
35u + 10U
45u +10
0
TG
50