

LITHOLOGY STRIP LOG

WellSight Systems

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

Color Copies

Well Name: Trembley 'A' #2
Well Id:
Location: C SW NW SW Sec. 3-T25S-R8W, Reno County, KS.
License Number: 15-155-21754
Spud Date: 4/26/18
Surface Coordinates: 1650' FSL & 330' FWL, Sec. 3-T25S-R8W
Region: Arlington Twst.
Drilling Completed: 5/2/18

Bottom Hole Same as above
Coordinates:
Ground Elevation (ft): 1626' K.B. Elevation (ft): 1638'
Logged Interval (ft): 2800' To: 3657' Total Depth (ft): 3657'
Formation: Marmaton at Total Depth
Type of Drilling Fluid: Native Mud to 2800'; Chemical Gel 2800' to 3657' TD.

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OPERATOR

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GEOLOGIST

Name: Jon D. Christensen
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Cores

None Taken

DSTs

DST #1(Kansas City Hertha) 3540' - 3567' Test Times 5"-60"-60"-90" IFP Strong Blow BOB/ 1.5 Minutes, 0.5" Blowback that died; FFP Strong Blow BOB/45 Seconds, no Gas to Surface, 0.25" Blowback that died in 16 minutes; REC: 856' Gas in Pipe, 5' Clean Oil, 67' GCMWO(5%G, 35%O, 30%W, 30%M), 124' OCMW(5%O, 75%W, 20%M), Tester listed CI at 25,000 - too low; IFP 60-47#, ISIP 1626#, FFP 103-104#, FSIP 1590#, IHP 1763#, FHP 1690#, BHT 119 Deg. F(NOTE: Pressures taken from Typed Test Report).

Comments

4/26/18 MIRU Fossil Drilling Rig #3, Spud at 4:45 PM.; 4/27/18 TD. 314' - WOC; 4/28/18 Drilling at 1290'; 4/29/18 Drilling at 2200'; 4/30/18 Drilling at 2920'; 5/1/18 Drilling at 3485'; 5/2/18 Drilling at 3650' - RTD. 3657' at 7:15 AM.; 5/3/18 RTD. 3657', LTD. 3658' - Rigging Down, Production Casing set.

Set new 8 5/8" Surface Casing at 310' with 460 sacks of Cement(Copeland Cementing Co.). Cement did Circulate. Had to 1" to get cement to base of Cellar. PD. 7:00 AM. 4/27/18.

Set new 4 1/2"(10.5#) Production Casing at 3652' with 175 sacks Cement(Basic Energy Services). PD. at 3:00 AM. 5/3/18.

Surveys: 0.75 Deg. at 314'(Surface Casing), 1.0 Deg. at 1006'(Wireline); 0.50 Deg. at 1512'; 0.75 Deg. at 2019'; 1.0 Deg. at 2527'; 0.50 Deg. at 3003'; 0.50 Deg. at 3567'(DST #1 - drop).

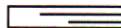
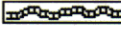
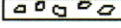
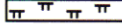
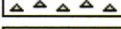
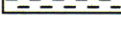
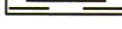
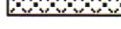
After review of the ELI log, DST #1, structural position and positive indications of commercial quantities of hydrocarbons, the operator elected to set new 4 1/2" Production Casing for completion in the Kansas City Hertha Section.

NOTE: Prior to abandonment of the Trembley A #2, the "second bench" of the K.C. Hertha from 3574' - 3577'(log Depths) should be considered for perforating and testing. Oil shows were present in the samples with a fair drilling break noted.

LOG TOPS: Heebner Shale 3016(-1378), Toronto 3035(-1397), Brown Lmst. 3204(-1566), K.C. Dennis 3462(-1824), Stark Shale 3503(-1865), Swope 3511(-1873), Hush. Shale 3542(-1904), Hertha 3552(-1914), Base KC. 3602(-1964). LTD. 3658'.

NOTE: The ELI Gamma Ray file could not be imported onto this log.

ROCK TYPES

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

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

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

▨

Sltstrg

▨

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

▨

Angular

OIL SHOW

▨

Even

▨

Spotted

▨

Ques

▨

Dead

INTERVAL

▨

Core

▨

Dst

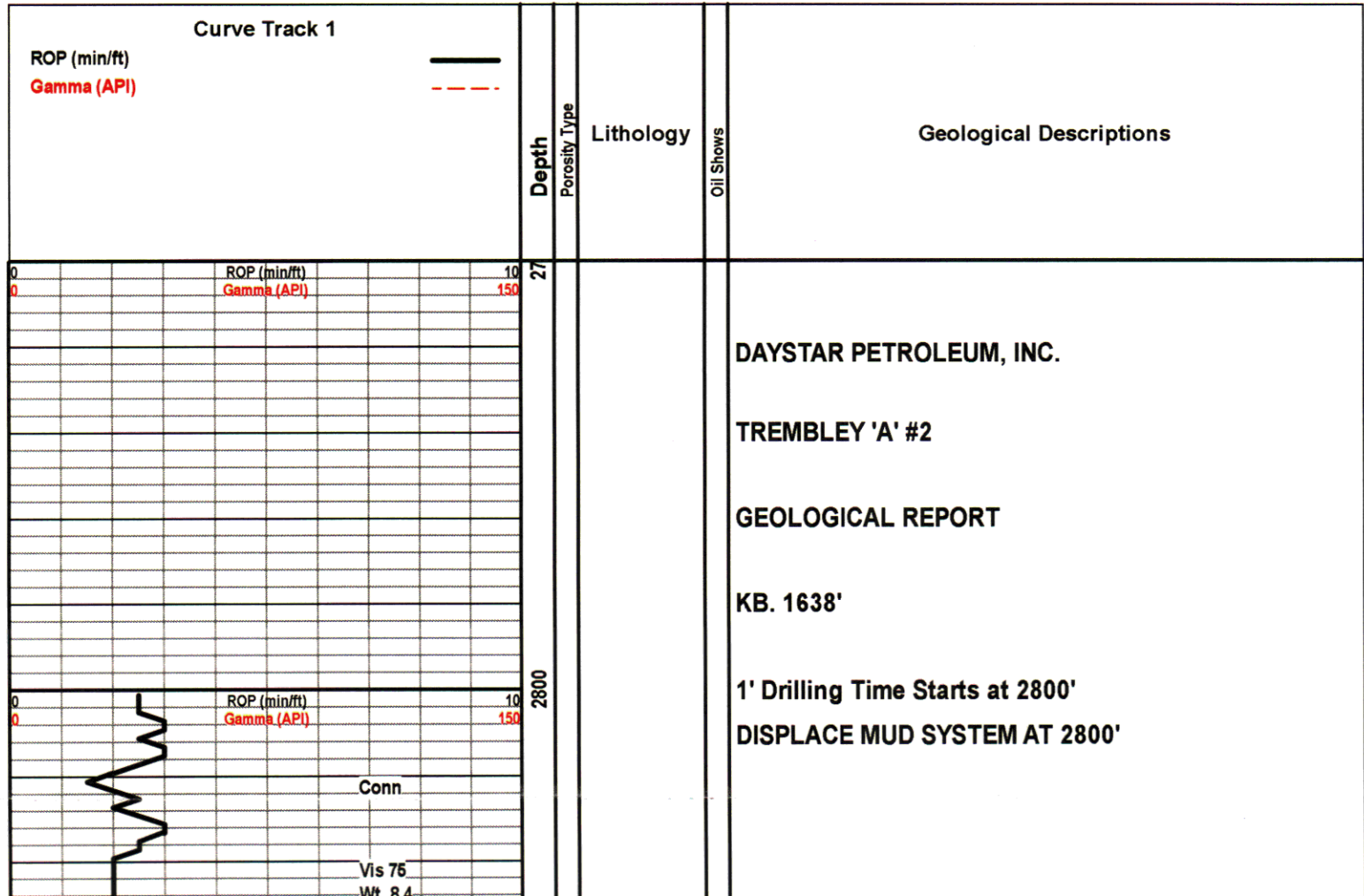
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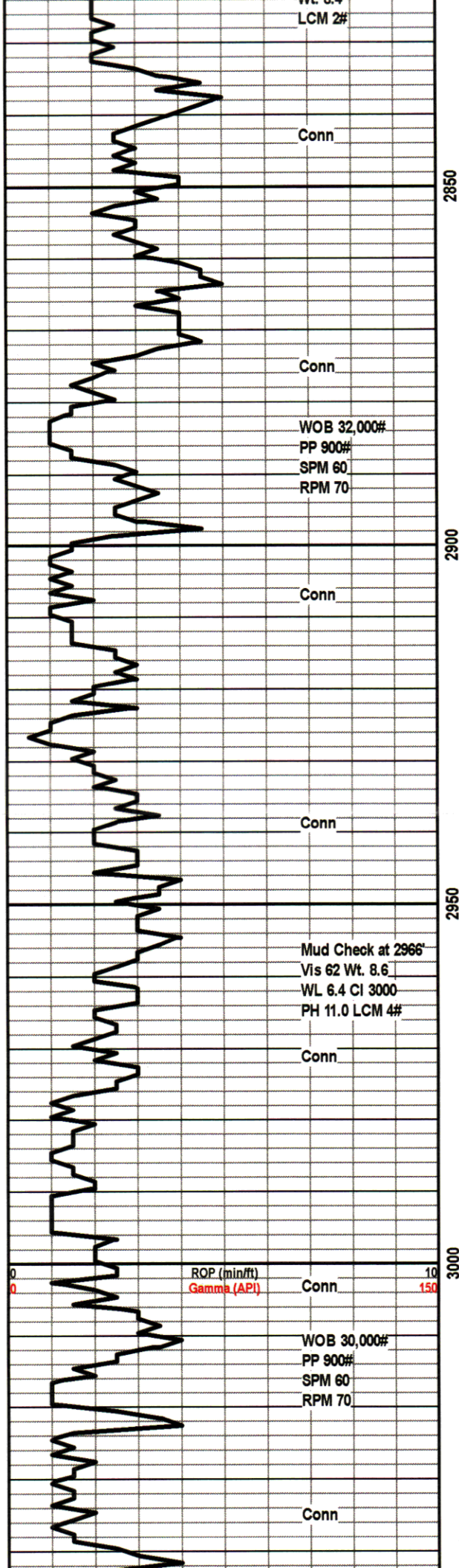
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Rft

▨

Sidewall





LM; tan to lt brn, foss ip, most dense, trc gy cht, tite

10' Wet and Dry Samples start at 2900'

SH; med gy, platy, rarely silty

7:00 AM. 4/30/18 Drilling at 2920'

LM; lt brn to cream, f to med xln w/occ gd interxln por, scat lt yel min fluor, no stn or odor, ns.

LM; tan to cream, med xln w/cse spar calc xtals, well cem, med yel spotty flour, tite

LM; tan to cream, lt brn, f to med xln, rare gy cht, scat fair interxln por, spotty med yel min fluor, ns.

SH; dk gy, some blk, platy

SH; blk, blocky, scat pyr, trc gas

LM; tan to lt brn, fxln w/scat foss, no vis por, tite

LM; lt to med brn, some gy brn, hd, tite

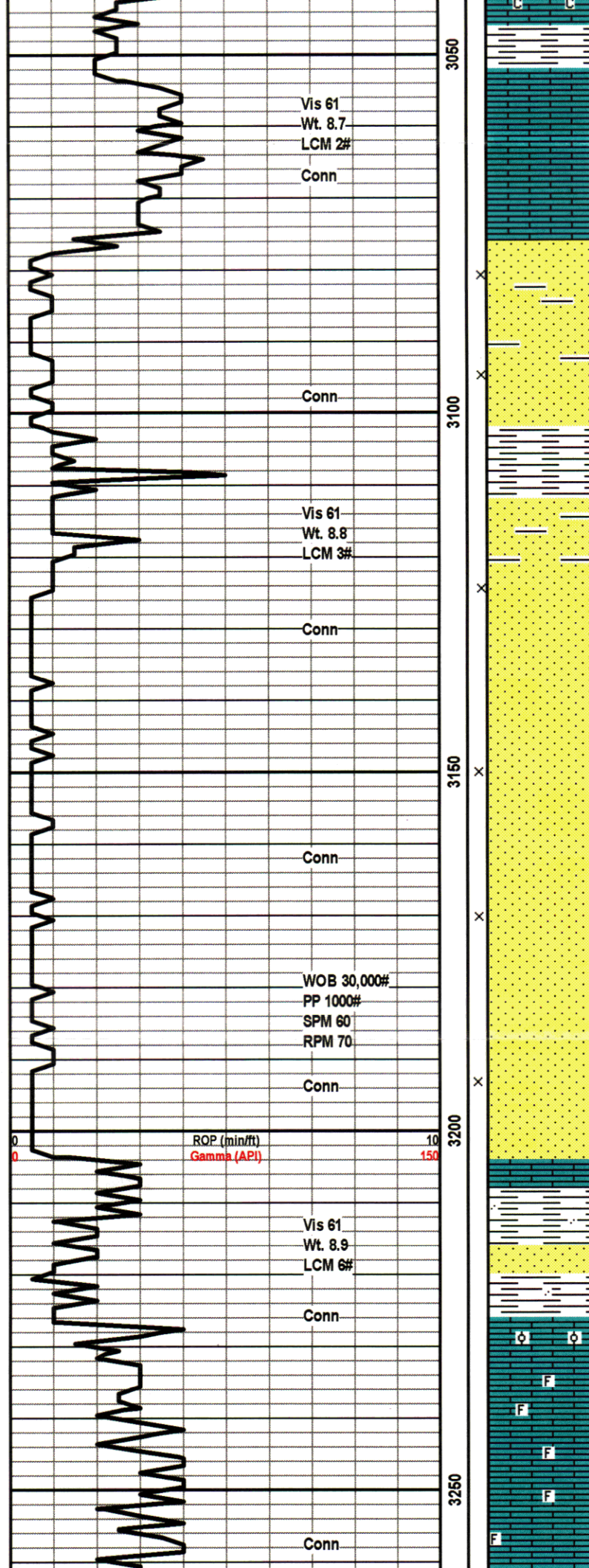
HEEBNER SHALE 3016(-1378) LOG Same

SH; blk, carb ip, blocky - hard

SH; lt gy to gy grn, silty w/interbdd sitst, soft

TORONTO 3036(-1398) LOG 3035(-1397)

LM; off wh, wh, tan, some soft chalk, interbdd dense foss lmst, pyr ip, scat lt yel fluor, no stn or odor, no vis por, ns.



LM; tan to buff, lt brn fxln w/scat well cem foss frags, no vis por, no stn or odor, ns.

LM; tan to lt brn, hd, blocky, micritic, tite

SS; lt gy, vf to f gr qtz, clusters, f sorting, fair to gd intergran por, some "salt and pepper" grains, rarely mica, some argil, most clean fri, no fluor, no stn or odor, ns.

SS; lt gy, some clr, most f gr qtz, f to gd sorting, clusters, occ argil at top, bcm cleaner with depth, subrnd - subang gr, calc cmt, most with gd intergran por, no fluor, no stn or odor, ns.

SS; lt gy, rare clr, occ tan to lt brn tint, all f gr qtz, gd intergran por, clusters, fri, clean, ns.

SS; lt gy, some lt brn tint, all f gr qtz, clean, gd intergran por, ns.

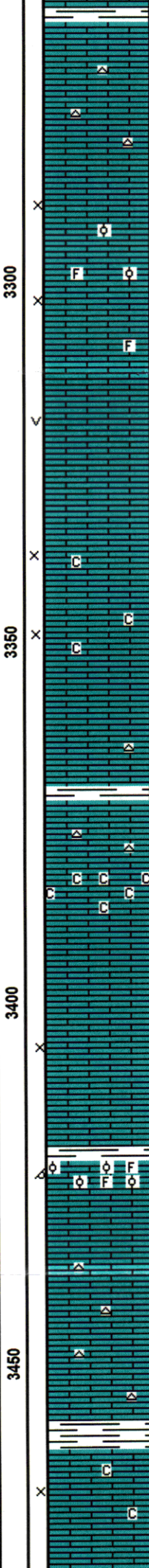
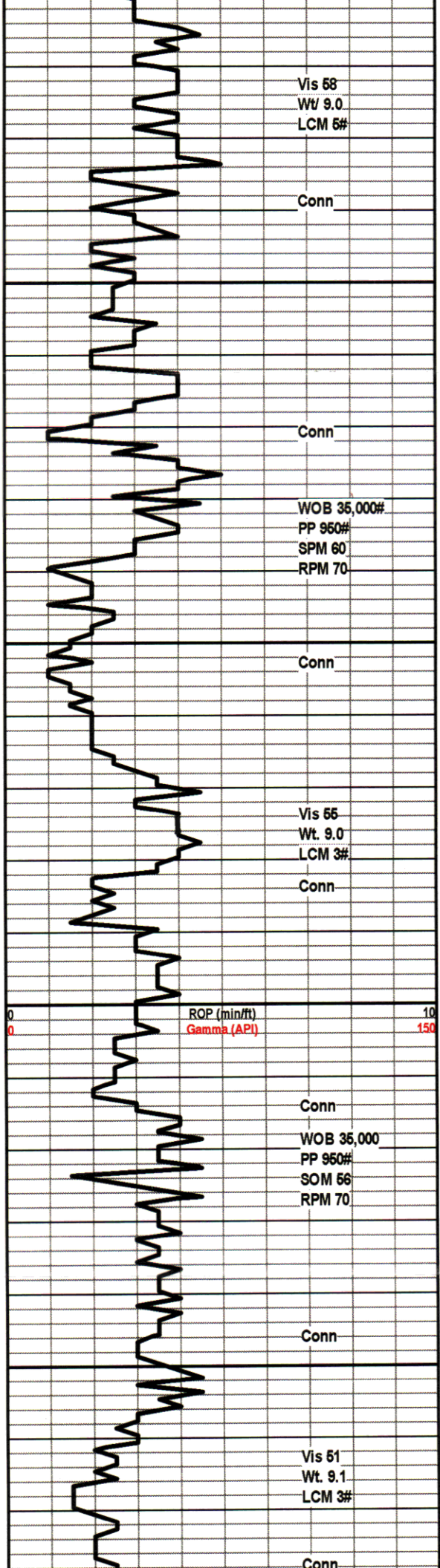
BROWN LIMESTONE 3204(-1566) LOG Same

LM; med to occ dk brn, hd, blocky, no vis por, tite

SH; med gy, rare varic, sandy ip w/interbdd vf to f gr qtz

LM; med brn, rare lt brn, scat foss mat - occ well cem small oolites, dull yel min fluor, no vis por, no fluor, ns.

LM; tan to med brn, fxln, foss ip, dull yel min fluor, no vis por, ns.



LM; lt gy brn to lt gy, fxln, most dense - micritic, rare gy to tan cht, dull yel min fluor, no stn or odor, no vis por, ns.

LM; tan to lt brn, scat abnt foss mat, occ small ooids and foss frags, fair interpart por, no fluor, ns.

LM; tan to cream, foss w/scat small vug por, some med xln lmst, no fluor, ns.

LM; tan to lt brn, fxln to occ gran text, fair to gd interxln por, minor soft chalky mtx, v. dull yel min fluor, no vis stn, no odor, ns.

LM; med to dk brn, hd, blocky, scat med gy cht, tite

SH; dk gy, platy

LM; off wh, tan to buff, very chalky - soft ip, no vis por, ns.

LM; med brn, micritic, blocky, tite

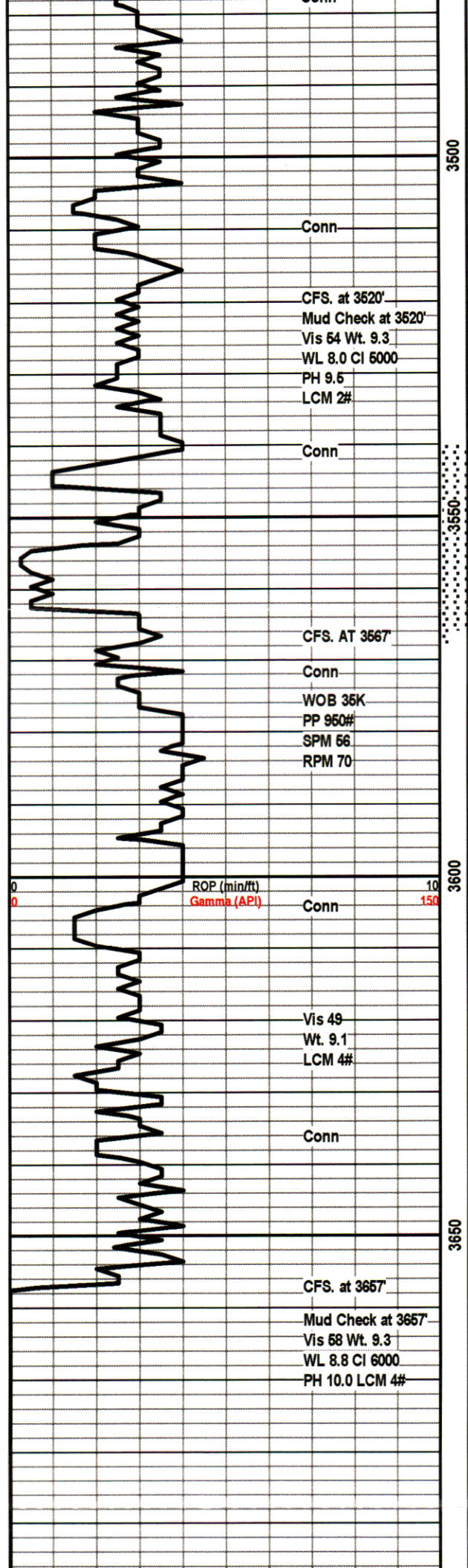
LM; lt brn, med to cse xln, fair vis interxln por, v. dull to no fluor, no stn or odor, ns.

LM; off wh, buff, foss w/scat oolitic lmst, fair oomoldic por, chalky ip, dull yel min fluor, ns.

LM; lt to med brn, micritic, hd, scat dk gy to dk brn cht, tite

K.C. DENNIS 3462(-1824) LOG Same

LM; off wh, tan to cream, fxln, occ sucrosic text, not dolomitic, minor chalky mtx, fair interxln por, dull yel min fluor, no stn or odor, barren, ns.



Conn

CFS. at 3520'
Mud Check at 3520'
Vis 54 Wt. 9.3
WL 8.0 CI 5000
PH 9.5
LCM 2#

Conn

CFS. AT 3567'

Conn
WOB 35K
PP 950#
SPM 56
RPM 70

Conn

Vis 49
Wt. 9.1
LCM 4#

Conn

CFS. at 3657'
Mud Check at 3657'
Vis 58 Wt. 9.3
WL 8.8 CI 6000
PH 10.0 LCM 4#

7:00 AM. 5/1/18 DRILLING AT 3485'

LM; lt to med brn, dense, blocky, scat med gy to dk brn - blk cht, no vis por, no fluor, ns.

STARK SHALE 3504(-1866) LOG Same

SH; blk, hd, carb ip.

SWOPE 3512(-1874) LOG 3511(-1873)

LM; lt to med brn, foss w/scat well cem foss hash, rare oolites, dull yel fluor, no vis por, ns.

WIPER TRIP 25 STANDS AT 3520'

LM; tan to lt brn, fxln to micritic, hd, no vis por, scat med gy to med brn cht, tite

HUSHPUCKNEY SHALE 3542(-1904) LOG Same

SH; blk, blocky, hd, trc pyr

HERTHA 3551(-1913) LOG 3552(-1914)

LM; tan, off wh, oolitic, small to med size molds, gd oomoldic por, rare small vug por, fairly good oil odor, med to brite yel even fluor, some barren rocks(gas or water), SFO w/trc gassy oil, much spotty to even lt brn oil stn, gd cut

DST #1: 3540' - 3567'(27' ANCHOR)

LM; lt to med brn, rarely foss, fxln, poor to fair interxln/interpart por, spotty med to occ dk brn oil stn, faint to fair odor, lt to med yel fluor, fair cut, VSSFO, some very tite

LM; lt to med brn, most dense - blocky, scat lt gy cht, no vis por, no fluor, no stn or odor, ns.

BASE KANSAS CITY 3604(-1966) LOG 3602(-1964)

SH; blk, platy, pyr ip.

LM; lt to med gy brn, blocky, rarely fxln, hd, some grn argil lmst, no vis por, ns.

SH; lt to med gy, interbdd varic sh w/maroon and red occ silty sh, some nodular red/brn lmst

LM; lt gy, tan, fxln to micritic, trc blk cht, no vis por, no stn or odor, ns.

7:00 AM. 5/2/18 DRILLING AT 3650'

RTD. 3657' AT 7:15 AM. 5/2/18

Pull 10 Stand Short Trip, then CFS.

ELI WIRELINE CO. RAG LOG, LTD. 3658' 5/2/18

[illegible]