

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Schwerdt #3-2
Location: SeSeNwSe Sec. 2, T1S-R36W Rawlins County, Kansas
License Number: 15-153-21135
Spud Date: 14 MAY 15
Surface Coordinates: 1600' FSL & 1540' FEL
N39.992213, W101.323256
Region: Mid Continental
Drilling Completed: 21 MAY 15
Bottom Hole Coordinates:
Ground Elevation (ft): 3089' K.B. Elevation (ft): 3102'
Logged Interval (ft): 3000' To: 4414' Total Depth (ft): 4414'
Formation: Lansing Kansas City
Type of Drilling Fluid: Freshwater Chemical

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

OPERATOR

Company: BEREXCO, LLC
Address: 2020 North Bramblewood Drive
Wichita, Kansas 67206

GEOLOGIST




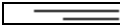
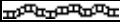


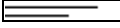
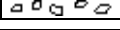





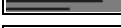
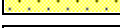



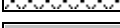


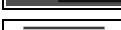





Name: Peter Vollmer WPG #3369
Company: T.M. McCoy & Co., Inc.
Address: P.O. BOX 608
Wilson, Wyoming 83014
307-733-4332

SURVEYS

DSTs

Comments

ROCK TYPES

	Anhy		Dol		Sh red-brown		Shcol
	Bent		Gyp		Sh green		Shgy
	Brec		Igne		Sh gray-red		Sltst
	Cht		Lmst		Sh dk-gray		Ss
	Clyst		Meta		Sh gray		Till
	Coal		Mrlst		Sh blk-brn		Sltst gy
	Congl		Salt		Shale		Sh org

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

- Lsstrg
- 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
- Sh orgng

- Sltst gy
- Sh orgng
- Lsstrg

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOW

- Even
- Spotted
- Ques

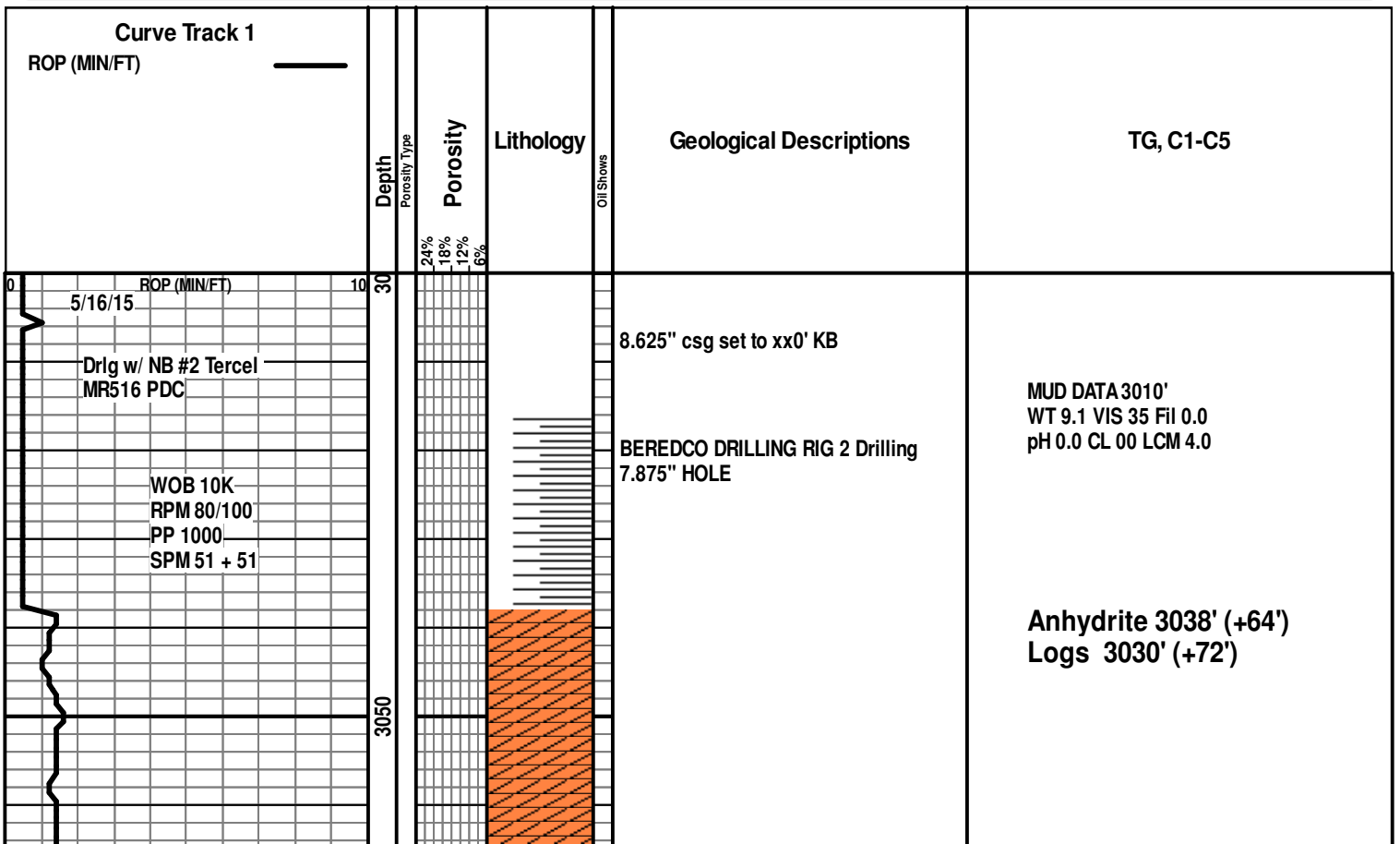
- Dead

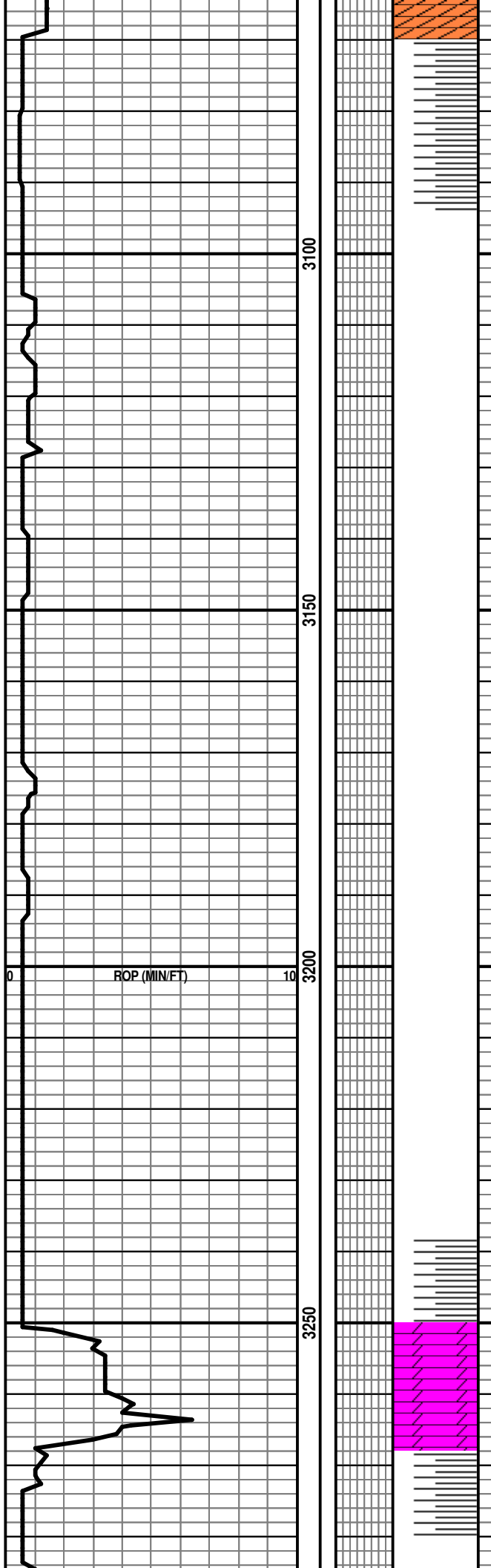
INTERVAL

- Dst
- Dst

EVENT

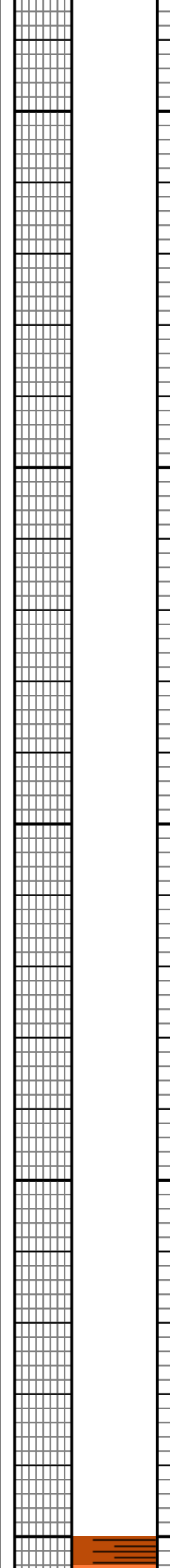
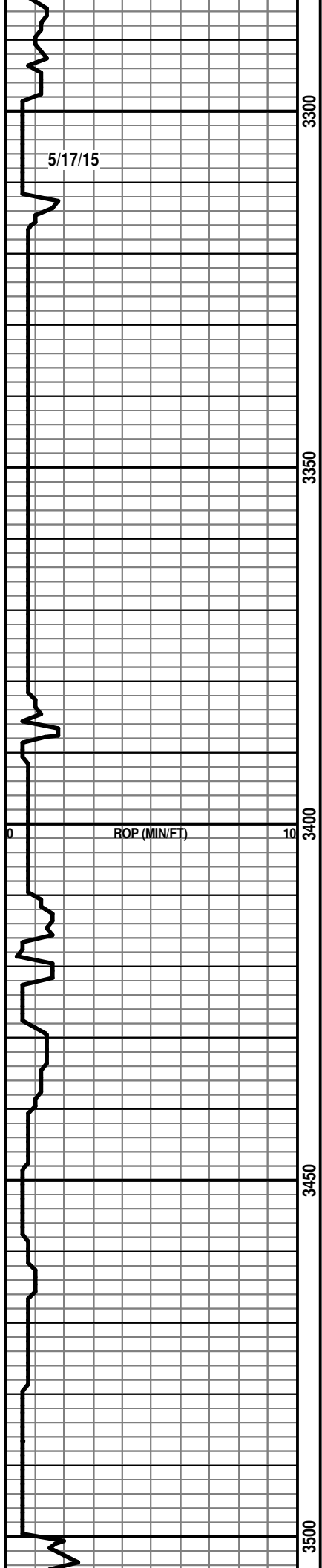
- Rft
- Sidewall





Base 3069' (+33')
Logs 3065' (+37')

Chase Limestone 3251' (-149')
Logs 3249' (-147')



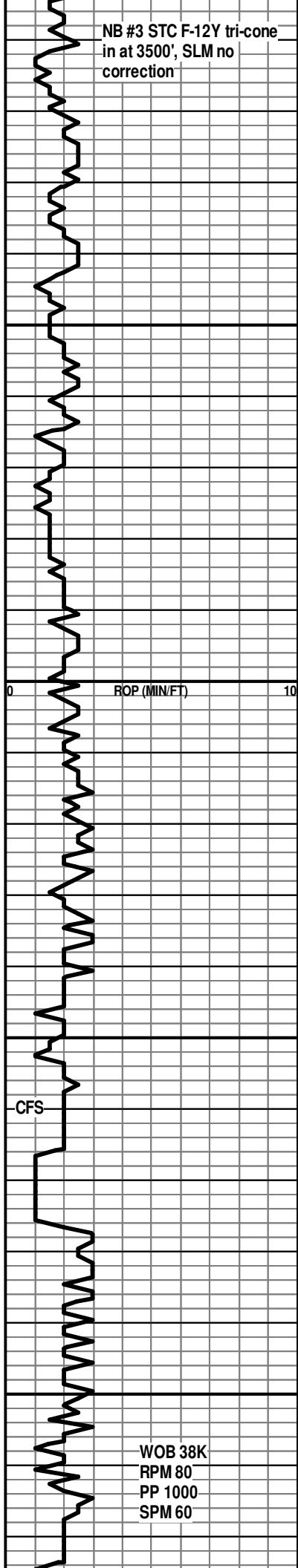
: SH: lt reddish brn - lt brownish

Displace mud at 3416'

WT 8.6 VIS 50 LCM 6

SAMPLE DESCRIPTIONS

NB #3 STC F-12Y tri-cone
in at 3500', SLM no
correction



WOB 38K
RPM 80
PP 1000
SPM 60

3550

3600

3650

3700

orange, frm, n calc, slty ip

LS: wh-crm, frm-hd, chalky, fos frag,
sdy, calcite filled micro frac, tt, no
shows

SS: pale reddish brn - v lt gy - wh,
fri-hd, vf gr, w rnd, w srt, wk calc cmt,
clay filled, tr-pr por, no show

SH: reddish brown - brownish orange,
sft-frm, sb blkly - lmpy, n calc, occ slty

LS: lt gy - crm, with pale red mot, hd,
mudst-wackest, scat fos frag, sdy ip,
occ reddish brn SH ptgs, lt orange
-opaque cht, tt, no show

SH: reddish brown, frm-hd, fis-blky, v
slty, sdy ip, non-sl calc

SLTY SH: reddish brn, sft-frm, sb blkly,
n calc, occ mod-v slty, occ vf gr SS
stringers

LS: wh-pale lt gy, frm-hd, mudst, sl
chalky, fos frag, thn dk gy Sh ptgs, occ
sdy/grainy tex, lt orange cht, no vis
por, no shows

SH: lt gy-grn gy, frm, blkly, n - sl calc,
Ls stringers

LS: wh-lt gy, frm-hd, mudst- wackest, v
sl chlky, fos frag, lt tn cht, tr blk algal
strn,(dd oil), no vis por, no shows

SS: v lt gy-wh-lt tan, fri, vf gr,
sbang-sbrnd, w srt, calc cmt, clay fill,
blk asph specks, tt-tr por, no shows

SH: pale reddish brn, sft-frm, sb blkly, n
calc, occ slty, w/ interbedded CHERTY
LS: wh-lt gy, frm-hd, mudst, sl chalky,
scat orgng - opaque cht, tt, no shows

LS: wh - lt gy, hd, mudst-packst, fos
frag, occ sl chalky, lt orgng cht, tt, no
shows

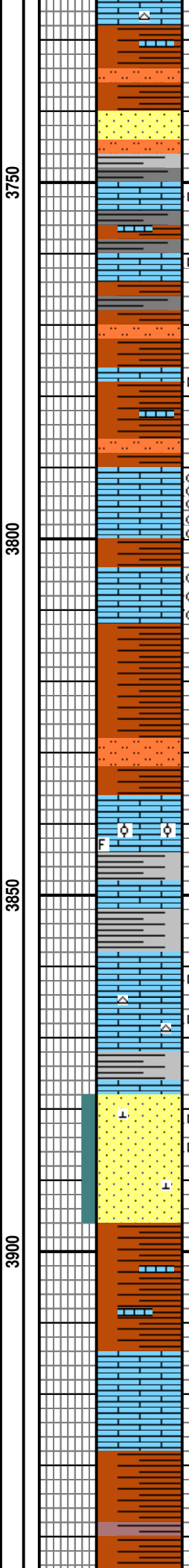
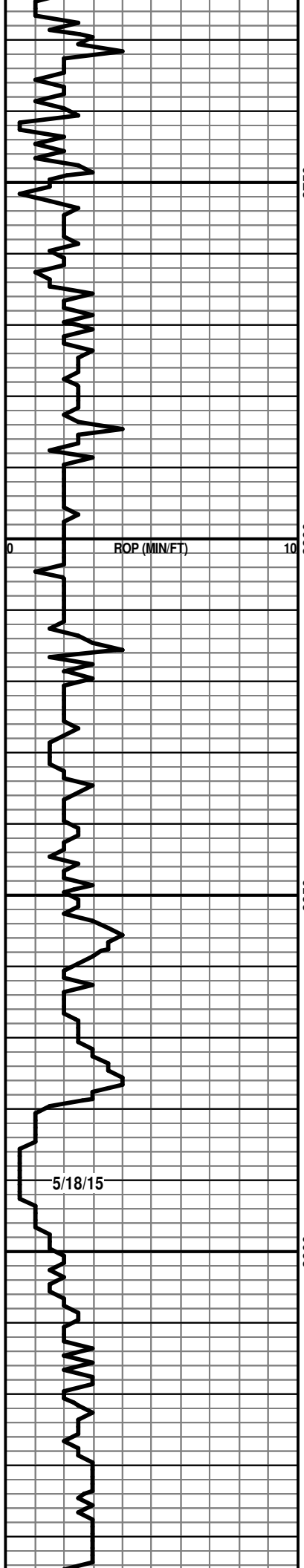
SH: brownish red, frm, blkly, n calc,

Neva 3511' (-409')
Logs 3516' (-414')

MUD DATA 3543'
WT 8.6 VIS 50 Fil 6.4
pH 12.0 CL 600 LCM 4.0

Red Eagle 3572' (-470')
Logs 3558' (-456')

Foraker 3624' (-522')
Logs 3627' (-525')



with wh LS stringers

SDY SILT: pale reddish brown-lt gy, sft-v fri, vf gr grdg to crs silt, sbang-sbrnd, mod-fr srt, non - sl calc, arg - clay mtx, no vis por, no show, occ reddish brn sft Sh ptgs

SH: dk gy-gy reddish brn, frm, fis-blky, n calc, fos frag (Brac), tr wh Ls

LS: wh-lt gy, occ reddish brn mot, frm-hd, mudst-wackest, fos frag, sl chalky, reddish brn and dk gySh ptgs, sdy ip, scat to abnt blk asph mat, (dd oil) tt, no show

LS: wh-lt gy, hd-frm, wackest-grainst, scat - abnt fos frag, patchy blk live hvy oil, no vis por, bri yelwh flor, instant blooming yelwh cuts, with fast strmg pale yelwh cut, poor to fair show from blk tarry oil

SH: lt reddish brn - pale grayish orange, sft-frm, sb blk- lmpy, non calc, clayey, occ Silt stringers

LS: lt gy-wh-crm, hd-frm, wackest-grainst, fos frag, occ ool in sparry calc, tt, no shows

SH: gy - dk gy, frm, sb blk, n-sl calc, dull

LS: lt gy-wh, redish brn mot, hd-frm, mudst- wackest, fos frag, wh-opaque cht, scat blk asph mat (dd oil), tt, no shows

SS: lt gy- v lt gy, v fri-sft, vf gr grdg to silt, w rnd, w srt, wk calc cmt, clay filled, glau, tr asph mat, tr-pr por, no show

SH: pale reddish brn - lt mar, frm, sb blk, n-sl calc, wh Ls incl

LS: lt gy-wh, sft-frm, mudst, sl chalky, tr blk asph stn, tt, no shows

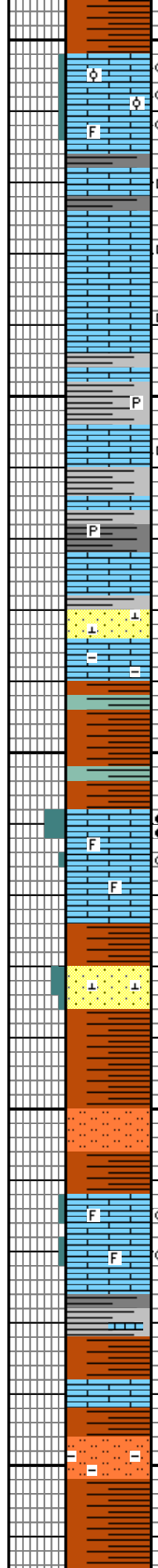
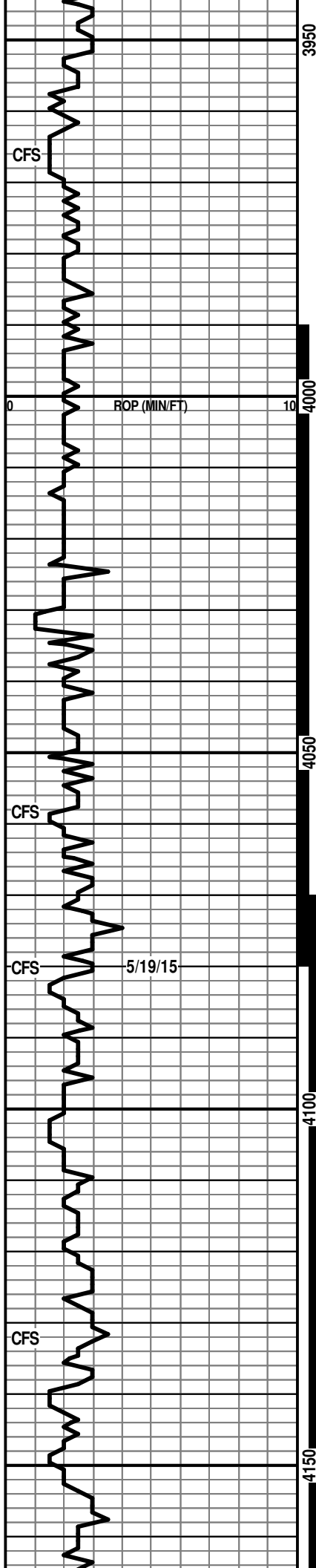
SH: pale brownish mar, frm, fis-blky, n calc, thn Ls ptgs, occ slty

Wabaunsee 3767' (-665')
Logs 3772' (-670')

Topeka 3836' (-734')
Logs 3840' (-738')

Deer Creek Sd 3879' (-777')
Logs 3876' (-774')

Oread 3952' (-850')
Logs 3954' (-852')



LS: crm-wh, frm-hd, packst, occ ool, fos frag, sl chky, tr interparticle and vug por, scat-ptchy blk tarry oil stn, bri yelwh flor, slow streaming yelwh cuts, poor show

LS: v lt gy - wh, frm-hd, mudst, sl chalky tex, gy -dk gy Sh ptgs, tr blk dd oil specks, tt, no show

LS: v lt gy - wh, frm-hd, mudst, sl chalky tex, lt gy Sh ptgs, rr blk dd oil specks, tt, no show

SH: v dk gy, frm, fis-tab, sl carb, dism pyr

LS: gy-lt gy, hd, mudst, fos frag, sl arg ip, pyr. tt, no shows

SS: wh - v ltgy, fri-sft, vf gr, w rnd, w srt, wk calc cmt, pred clay fill, tt, no show

SH: lt gy-reddish brn - greenish gy, occ mot, sft-frm, blk, n-sl calc, clayey ip

LS: wh-crm, frm, packst-wackst, fos frag, free blk oil in vugs and interpart por, poor to fair interparticle & vuggy por, bri yelwh flor, instant blooming yelwh cuts, good show

SS: wh-ltgy, fri-frm, vf gr, w rnd, w srt, calc cmt, cln, no vis por, no show

SH: lt gy-mar-reddish brn, mot, frm, blk, n-sl calc, slty ip

SLTY SH: pale reddish brn, sft-frm, calc, arg, grd to Sh

LS: wh pale gy, frm-hd, packst - mudst, occ fos frag, tr blk oil stn, tt-tr vug & intparticle por, bri yelwh flor, diffuse yelwh cuts, poor show from few pieces

SH: gy - dk gy reddish brn, frm, fis, sl carb, pyr, tr wh Ls

SH: reddish brn, frm-sft, blk-fis, n-sl calc, arg Siltst stringers

MUD DATA 4080'
WT 9.2 VIS 42 Fil 7.2
pH 11.5 CL 700 LCM 4.0

Heebner Shale 4016' (-918')
Logs 4012' (-914')

Douglas Sand 4030' (-928')
Logs 4028' (-926')

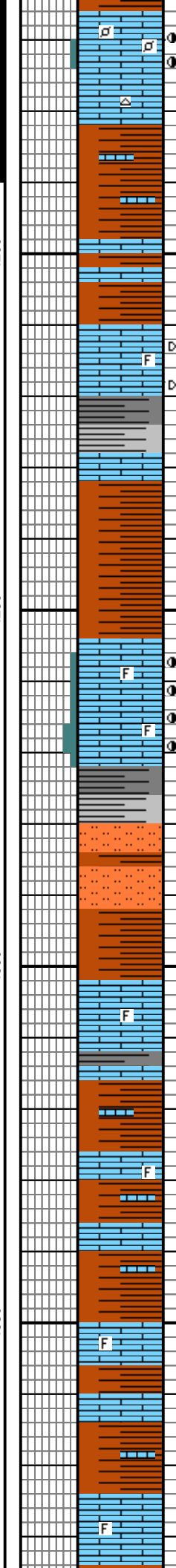
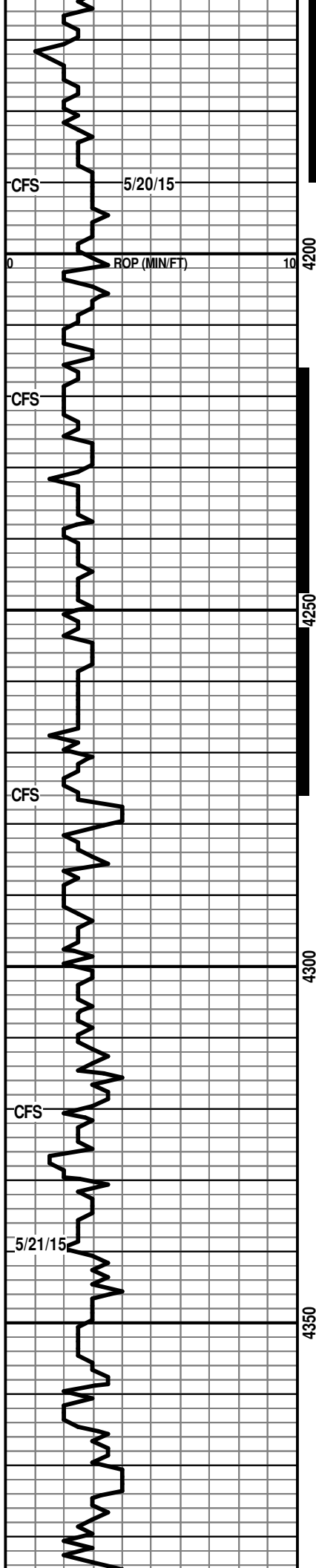
LKC "A" 4058' (-956')
Logs 4054' (-960')

DST#1 3990-4080' 30-60-90-120
tool slide 10' to bottom
IH 1980 IF 78-130 (IF opened w/ 1/2" blow built to 3 1/4") ISI 1255 FF 138-256 (S.B started in 5 min, built to 7")
FSI 1221 FH 1860 (No Blow backs)
REC: 480' TOTAL FLUID
120' Mud (100% M)
180' WM (20% W, 80% M)
180' MW (80% W, 20% M)
Chlorides 58,000 ppm @ 57 deg Rw .16

LKC "B" 4112' (-1010')
Logs 4111' (-1009')

MUD DATA 4190'
WT 9.1 VIS 60 Fil 6.0
pH 11.5 CL 1000 LCM 4.0

LKC "C" 4166' (-1064')
Logs 4162' (-1060')



LS: wh - v lt gy, hd, mudst - occ packst, tr peloids, fos frag, sl chalky at base, tr cht, tr blk oil stn & (dd oil), few pieces with yelwh flor, slow diffuse yelwh cuts, poor show

SH: gy-reddish brn, frm-sft, blk-y-fis, n-sl calc, pyr, Ls stringers

LS: wh - crm, hd, mudst, sl chalky, fos frag, tr blk dd oil stn, tt, no shows

SH: dk gy-lt gy, frm, blk-y, n-sl calc, v sl carb ip, Ls stringers

SH: pale mar-reddish brn, sft-frm, blk-y, n-sl calc, clayey, gummy tr silt

LS: wh-crm-lt gy, hd, grainst - mudst, fos, ptchy blk - dk brn oil stn, occ free oil in por, occ tr-poor intparticle & vuggy por, bri yelwh flor, instant blooming yelwh cuts, fair show, loc zone appears flushed

SH: gy- dk gy - blk, sft- frm, blk-y, n-sl calc, occ carb mat, pyr

SLTST: pale reddish brn-lt gy-wh, fri, vf gr, sbang- sbrnd, w srt, calc cmt, clay fill, Reddish brn SH, no shows

LS: off wh-lt gy, frm-hd, mudst, v chalky tex, cln, no vis por, no shows

SH: brownish red, frm, blk-y, n calc, with wh LS stringers

LS: wh-crm, occ reddish brn mot, hd-frm, mudst, chalky ip, reddish brn Sh stringers, fos frag, tt, no shows

SH: brownish red, frm, blk-y, n calc, with LS stringers

LS: wh-crm, reddish brn mot, hd-frm, mudst, chalky ip, fos frag, tt, no shows

DST#2 4070-4190' 30-60-90-120
 IH 2024 IF30-57 (IF opened w/ 1/2" blow built to 2") ISI 1103 FF 64-108 (S.B started in 10 min, built to 1 1/2")
 FSI 1049 FH 2005 (No Blow backs)
 REC: 180' TOTAL FLUID
 90' WM (10% W, 90% M)
 90' MW (40% W, 60% M)
 Chlorides 28,000 ppm @ 67 deg Rw .25

Note: Lost circ and 60 bbls mud after DST #2

**LKC "D" 4210' (-1108')
 Logs 4212' (-1110')**

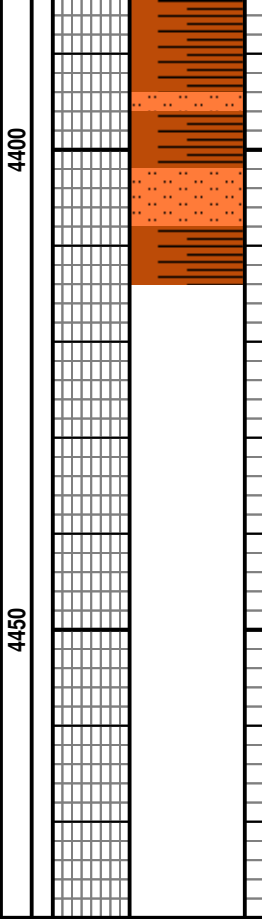
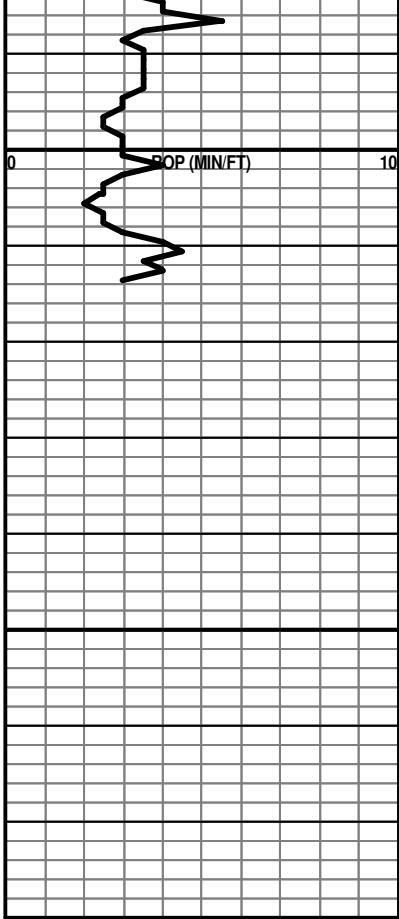
MUD DATA 4276'
 WT 9.1 VIS 51 Fil 6.4
 pH 11.5 CL 800 LCM 8.0

**LKC "E" 4254' (-1152')
 Logs 4256' (-1154')**

DST#3 4216-4276' 30-60-60-60
 IH 2026 IF 16-17 (open SB died in 5 min)
 ISI 703 FF 20-25 (open no blow, recycled tool, no blow)
 FSI 642 FH 1976
 No blow back
 REC: 20' TOTAL FLUID
 20' Mud (100% M w/ oil spots in tool)

**LKC "F" 4302' (-1200')
 Logs 4297' (-1195')**

MUD DATA 4414'
 WT 9.3 VIS 55 Fil 6.4
 pH 10.5 CL 700 LCM 8.0



SLTST: pale reddish brown-lt gy - wh,
sft-v fri, non - sl calc, arg - clay mtx,
pyr, occ reddish brn SH

Total Depth:
Driller = 4414' (-1312')
Logger = 4410' (-1308')