

MAXWELL LAFON WELLSITE GEOLOGY**WELL INFO**

Well Name: Foster #1
 Location: SW NW SE NW sec. 7, T. 9S, R. 21W
 Footage: 1530' FWL, 1830' FNL
 County/State: Graham Co., Kansas
 Field: Wildcat
 Coordinates: N 39.2874059 , W 99.7106513
 API #: 15-065-24173

Ground Elev: 2265' KB Elev: 2275'
 Logged Interval: 3050' - TD Total Depth: 3907'

OPERATOR INFO

Company: Meridian Energy Inc.
 Address: 1475 Ward Cir.
 Franktown, CO 80116

CONTRACTOR

Contractor: Southwind Drilling
 Rig #: 8
 Rig Type: Rotary Double
 Spud Date: 9/27/2019 Time: 7:00 PM
 TD Date: 10/2/2019 Time: 8:10 AM
 Rig Release: Time:

WELLSITE GEOLOGIST

Geologist: Maxwell LaFon
 Address: PO Box 9867
 Denver, CO 80209
 Phone: 303-594-0515
 Email: mjlafon@gmail.com

DRILL STEM TESTS

No.	Interval	Formation	Recovery
1	3566-3592	Lansing E/F	150' MW

FORMATIONS

Formation	Depth - Samples	Depth - Logs	Subsea
Stone Corral	1775' (+500)	1771'	+504
Topeka	3242' (-967)	3242'	-967
Heebner	3460' (-1185)	3460'	-1185
Toronto	3482' (-1207)	3483'	-1208
Lansing A	3496' (-1221)	3498'	-1223
Lansing B	3508' (-1233)	3510'	-1235
Lansing C	3531' (-1256)	3538'	-1263
Lansing D	3557' (-1282)	3558'	-1283
Lansing E	3573' (-1298)	3575'	-1300
Lansing F	3583' (-1308)	3584'	-1309
Lansing G	3592' (-1317)	3594'	-1319
Lansing H	3626' (-1361)	3624'	-1360

Lansing H	3636' (-1361)	3634	-1359
Lansing I	3657' (-1382)	3655'	-1380
Lansing J	3668' (-1393)	3668'	-1393
Lansing K	3687' (-1412)	3686'	-1411
Lansing L	3704' (-1429)	3704'	-1429
Base Lansing/KC	3718' (-1443)	3716'	-1441
Arbuckle	3830' (-1555)	3830'	-1555
TD	3907'	3906'	

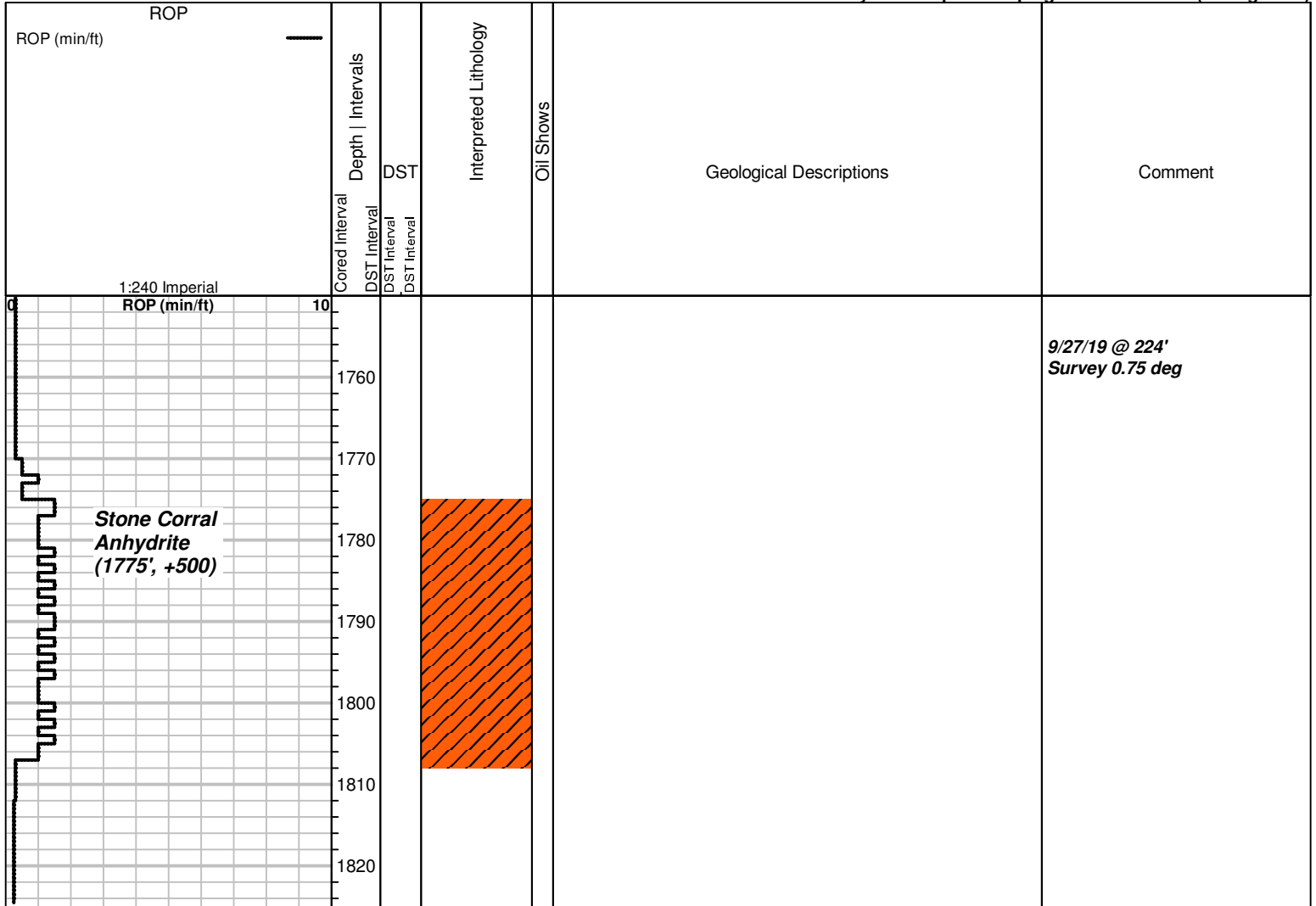
ROCK TYPES

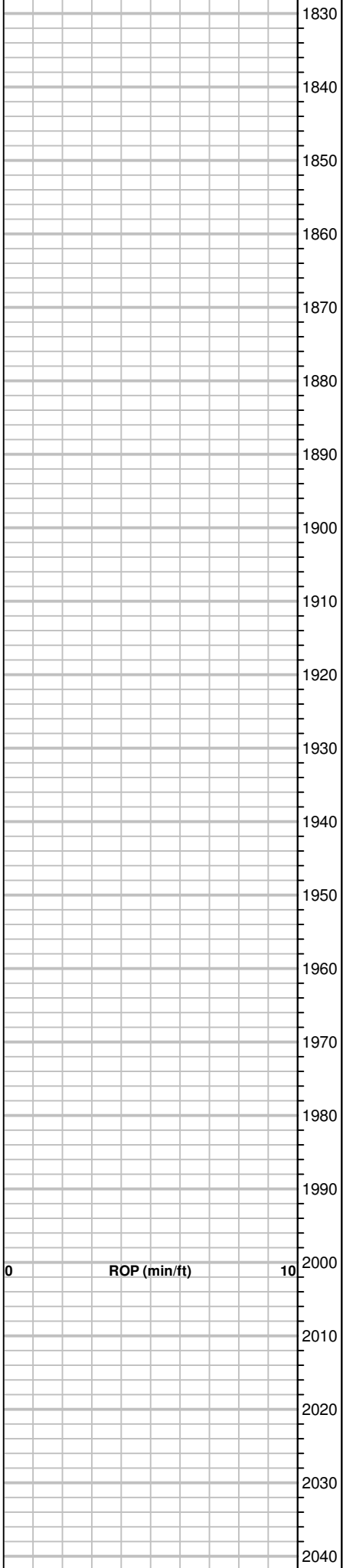
Congl	Lmst fw<7	Ss	Shblk	Anhy vert
Dolprim	Lmst fw>7	Shgy	Shcol	

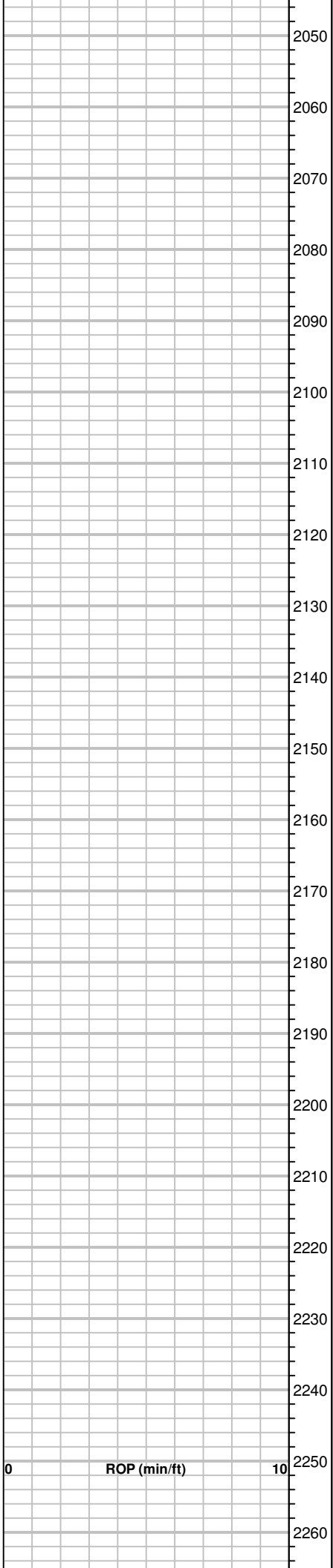
OTHER SYMBOLS

<p>OIL SHOWS</p> <ul style="list-style-type: none"> ● Even Stn ● Spotted Stn 50 - 75 % ● Spotted Stn 25 - 50 % ○ Spotted Stn 1 - 25 % ○ Questionable Stn D Dead Oil Stn ■ Fluorescence 	<p>MISC</p> <ul style="list-style-type: none"> Daily Report Digital Photo Document Folder Link Vertical Log File Horizontal Log File Core Log File Drill Cuttings Rpt 	<p>DST</p> <ul style="list-style-type: none"> DST Interval DST Interval
--	--	--

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)







2270

2280

2290

2300

2310

2320

2330

2340

2350

2360

2370

2380

2390

2400

2410

2420

2430

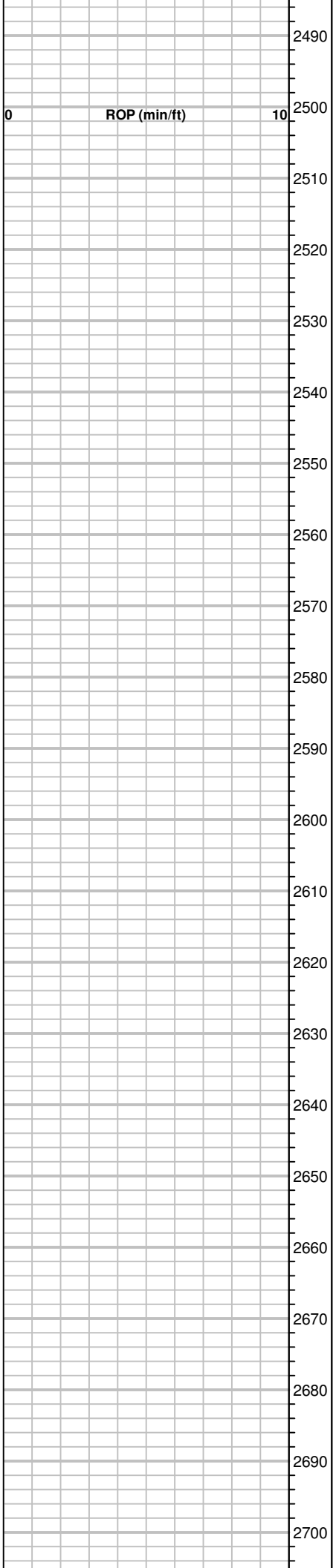
2440

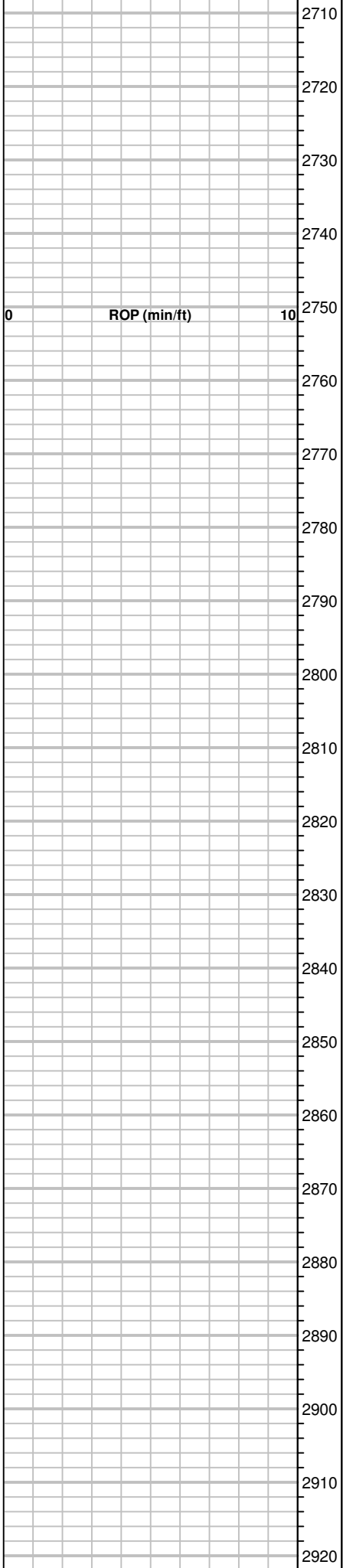
2450

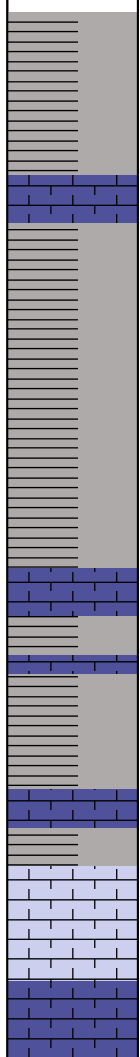
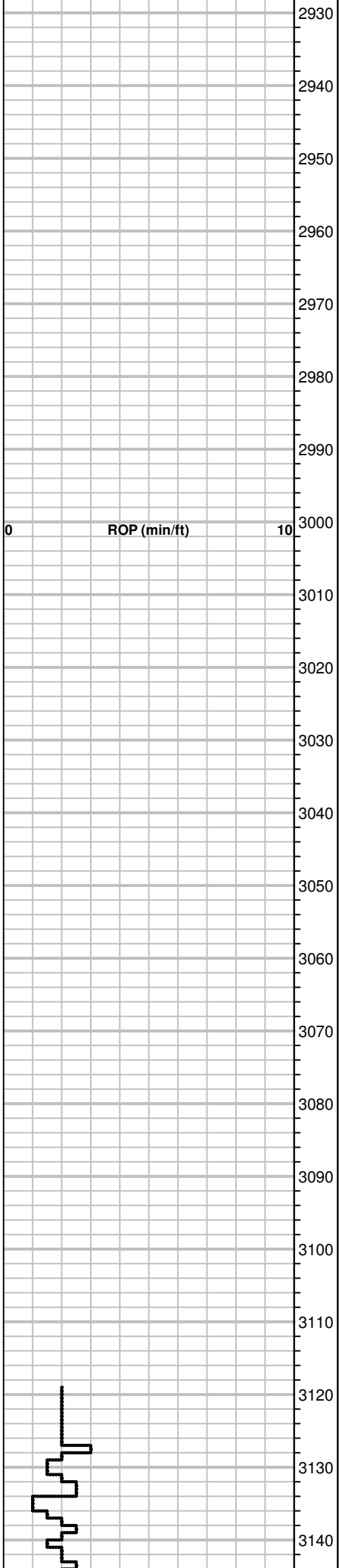
2460

2470

2480







3035-67 Sh gry and dk gry, Trace LS gry med xtl, very hard, NS

3067-94 Sh gry and dk gry

3094-3106 Sh dk gry, tr Sh red, Tr LS lt. tan med xtl, very hard, no por, NS

3106-15 Sh dk gry, grn, red

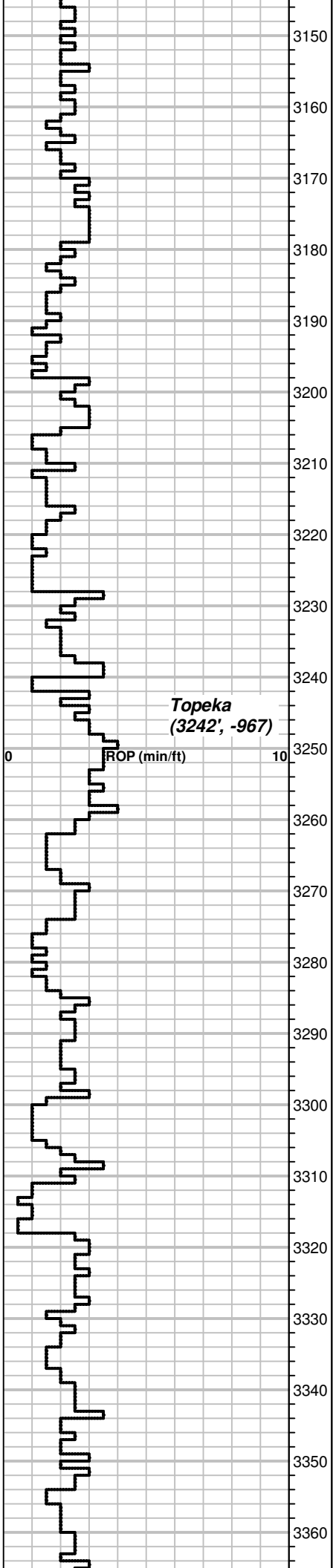
3115-24 Sh gry and dk gry, LS gry fine xtl, very hard, no por, NS

3124-36 LS lt. gry med grnstn, hard, no por, NS

3136-47 LS lt. tan xtl, very hard, no por, NS

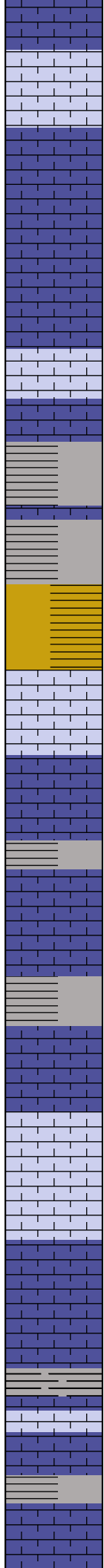
KS Drilling Technologies
Mud check 9/29/19
 Depth: 3104' Btms Up: 31 min
 Wt: 8.4 Vis: 78 Filt: 7.4
 Cake: 1/32" LCM: 3# YP: 25
 Chlor: 1000 ppm Grad: 0.437 psi/ft

Bit Trip, PDC for cone
9/29/19 @ 3114'
Survey 1.5 deg
No pipe strap due to wind



Topeka
(3242', -967)

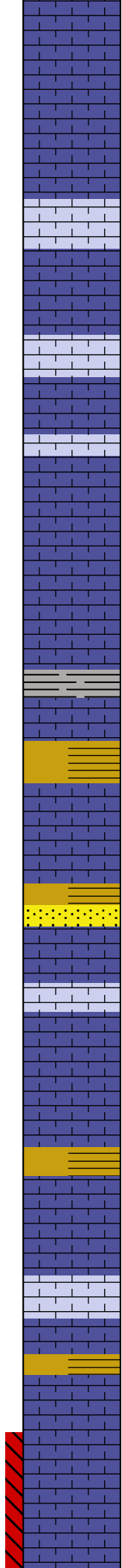
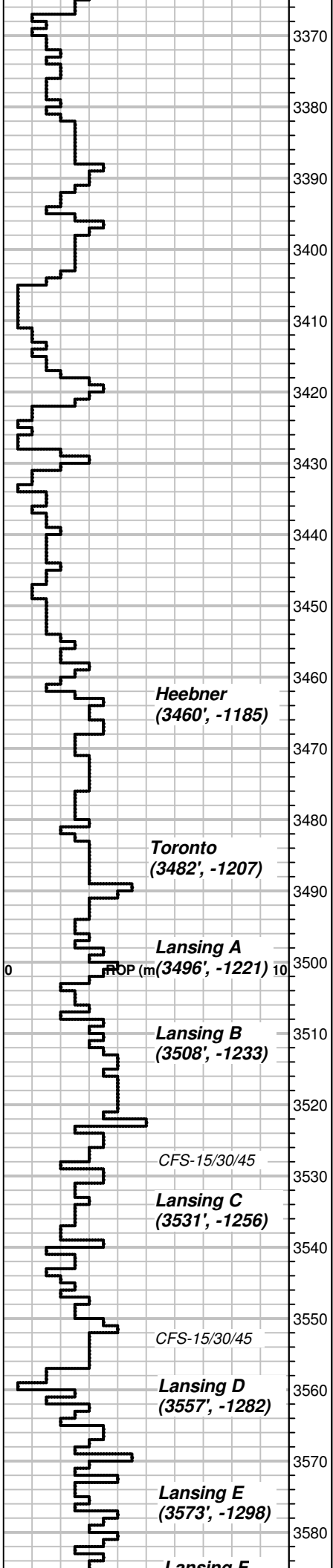
ROP (min/ft)



- 3147-56 LS lt. gry - gry fossiliferous grnstr, hard, no por, NS. LS tan microxtln, very hard, no por, NS
- 3156-69 LS gry - lt. gry very fine xtln, very hard, no por, NS. LS lt. gry fine grnstr, hard, no por, NS
- 3169-76 As above, LS gry arg. - dirty xtln, very hard, no por, NS
- 3176-82 LS gry - dk gry microxtln, very hard, no por, NS
- 3182-96 LS as above, LS gry arg. - dirty xtln, very hard, no por, NS
- 3196-3203 As above, Tr LS lt. tan fine grnstr, hard, no por, NS
- 3203-11 Ls dk gry med xtln, very hard, no por, NS. Sh dk gry
- 3211-26 Sh dk gry, Tr LS from above
- 3226-39 Sh red and grn
- 3239-51 LS lt. tan fossiliferous grnstr, hard, fair por, NS
- 3251-57 LS gry - dk gry microxtln, very hard, no por, NS
- 3257-63 As above
- 3263-73 Tr Sh dk gry, LS lt. tan fine xtln, very hard, no por, NS. LS gry med - coarse xtln, very hard, no por, NS
- 3273-86 As above, Less lt. tan fine xtln
- 3286-94 LS white chlky, very soft, LS lt. tan fine xtln, very hard, no por, NS. Sh dk gry, LS gry microxtln, very hard, no por, NS
- 3294-3301 As above, More LS lt. tan fine xtln
- 3301-18 LS lt. tan grnstr prtly rextlzd, very hard, no por, NS
- 3318-26 LS white chlky, very soft. LS brwn microxtln, very hard, no por, NS. LS lt. tan fine xtln, hard, no por, NS
- 3326-3337 As above
- 3337-46 Sh black, LS brwn xtln, very hard, no por, NS. Tr LS lt. tan fossiliferous grnstr, very hard, no por, NS
- 3346-54 LS brwn xtln and coarse xtln, very hard, no por, NS, some w/ fossil remnants. Tr Sh dk gry
- 3354-63 Ls gry microxtln, very hard, no por, NS. LS lt. tan - cream fine xtln, very hard, no por, NS. Tr Sh dk gry

Wt. 8.7
Vis 70
LCM 2 #

Wt. 8.7
Vis 68
LCM 2 #



3363-77 LS white chlky, very soft, LS lt. tan - white fine xtl, very hard, no por, NS

3377-89 LS as above, LS gry arg. - dirty xtl, very hard, no por, NS

3389-93 As above, more LS xtl

3393-3400 LS lt. gry xtl, very hard, no por, NS. LS lt. tan - gry fine grnstn, hard, no por, NS

3400-12 LS white chlky very soft, LS lt. tan semi-opaque fine xtl, hard, no por, NS

3412-19 LS gry - brwn grnstn, very hard, no por, NS. LS lt. tan fine xtl from above, NS. LS lt. tan microxtln, very hard, no por, NS

3419-29 LS lt. gry fine grnstn, very hard, no por, NS. LS lt. gry xtl, very hard, no por, NS

3429-43 LS lt. tan xtl - med xtl, very hard, no por, NS. LS white chlky, very soft, Tr LS lt. gry microxtln, very hard, no por, NS

3443-59 LS gry - lt. gry xtl, very hard, no por, NS, LS gry coarse xtl, very hard, no por, NS. Tr Sh black

3459-69 LS gry xtl - micro xtl, very hard, no por, NS. Tr Sh black, Heebner?

3469-80 Sh red, Tr Sh black LS gry microxtln, very hard, no por, NS. Tr LS lt. gry xtl, hard, no por, NS

3480-89 LS cream xtl - fine xtl, hard, no por, NS. LS lt. brwn xtl, very hard, no por, NS

3489-3500 Tr Sh red, LS cream xtl, very hard, no por, NS. Tr SS gry w/ black/grn mica flecs

3500-13 Mostly LS white microxtln very hard, no por, NS. Tr LS white grnstn, slightly friable, fair por, NS

3513-17 LS cream/lt. tan microxtln, very hard, no por, NS

3517-21 As above, NS

3521-26 As above

3526-28 Tr Sh brwn and black. Mostly LS white med xtl, hard, no por, NS

3528-42 LS lt. gry med xtl, hard, no por, NS, Sparse cuttings w/ small pinpoint vugs, oil stnd, fair odor, NSFO. LS white very fine xtl, very friable, no por, NS

3542-52 LS cream grnstn, very hard, very poor por, very poor shw free oil when broken, sparse shw, slight odor. Some LS white xtl, friable from above. LS white xtl, very hard, no por, NS

3552-58 LS lt. tan/gry xtl, very hard, no por, NS. Tr Sh red

3558-66 LS as above, Tr LS dk gry xtl, very hard, no por, NS

3566-71 LS lt. gry xtl, very hard, no por, NS. Tr Sh grn

3571-78 LS lt. gry xtl, poor intr xtl por, med sized vugs, some connected and oil filled and stained, good shw free oil, sparse, thick high gravity oil bleeding when crushed

3578-84 LS lt. tan xtl, very hard, no por, NS. Tr LS lt. gry xtl, very hard, no por, NS

KS Drilling Technologies
Mud check 9/30/19
 Depth: 3399' Btms Up: 33 min
 Wt: 8.5 Vis: 63 Filt: 7.6
 Cake: 1/32" LCM: 2# YP: 20
 Chlor: 2000 ppm Grad: 0.442 psi/ft

Lansing C_3552.JPG

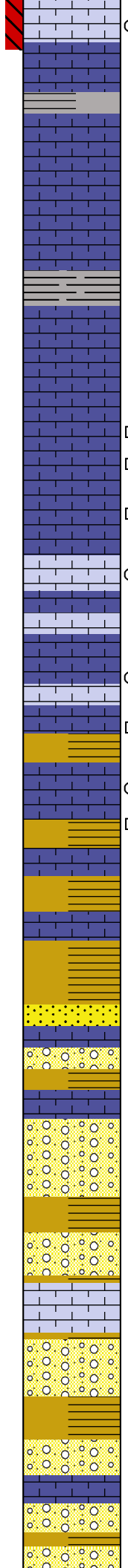
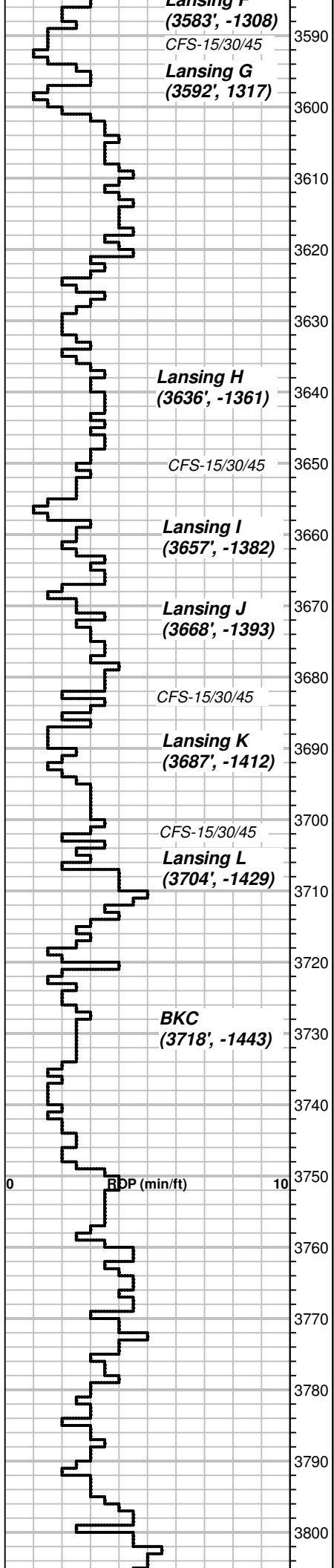
DST #1 (3566-3592)
Lansing E/F
2-45-60-120
Recovery: 150' MW
IF: 36-44 SF: 37-92
Shut Ins: 685/647

2" IF - Built to 1.5"
45" ISI - No blow back
60" FF - BOB in 43 min, built to 13.72"
120" FSI - No blow back
Rw: 0.170 ohms @ 69 deg
Chlorides: 39,000 ppm

DST 1 - Foster #1.pdf

Lansing E_3578.JPG

Lansing E_3578-2.JPG



3584-90 LS lt. gry grnstrn, hard, very good intrgrnlr por, **oil stained, fair shw free oil when crushed, sparse shw, por good enough that free oil most likely washed out during cleaning**

3590-3602 LS lt. gry - cream microxtln, very hard, no por, NS. LS cream xtln, hard, no por, NS. Some Sh dk gry

3602-13 LS cream xtln from above, Also LS lt. gry/white microxtln, very hard, no por, NS

3613-19 As above, NS

3619-28 Sh black, LS gry xtln, very hard, no por, NS

3628-39 LS lt. tan/cream xtln, very hard, no por, NS

3639-44 LS lt. gry microxtln, very hard, no por, NS

3644-48 LS lt. gry xtln, very hard, no por, some cuttings w/ med vugs, sparse, **oil stain**, NSFO

3648-50 LS cream med xtln, hard, no por, NS. As above w/ same **dead stain**

3650-58 LS lt. tan microxtln, some w/ vugs and **oil stain**, no free oil, **fair odor**, good amount of cuttings w/ stain

3658-70 As above, Also LS cream grnstrn, very hard, poor intrgrnlr por, stain in pores, NSFO, **Good odor**

3670-75 LS lt. gry xtln and microxtln, very hard, no por, NS. Tr LS grnstrn from above w/ stain

3675-80 Mostly LS lt. gry microxtln massive, very few xtln grains w/ some vuggy and poor intrxtln por, **poor shw free oil when crushed**, wet and tight

3680-86 Tr LS white very fine grnstrn friable, fair por, **dead oil in pores**, NSFO Mostly LS white xtln, hard, no por, NS. Tr Sh grn

3686-96 LS As above

3696-3702 Sh gry cly, LS white xtln, very hard, very poor por, **poor shw free heavy tarry oil when crushed**, no odor. Also LS white very fine grnstrn, poor por, friable, numerous **specks dead oil in pores**

3702-3710 LS cream xtln, hard, no por, NS. Sh gry cly

3710-17 LS as above. Sh dk gry, grn

3717-25 Sh red cly

3725-35 Sh red, grn, Congl. SS lt. gry fine grn, well sorted w/ larger clasts, LS cream xtln very hard, no por, NS

3735-51 Sh red, dk gry, Congl. from above, LS lt. gry sucrosic xtln, friable, no por, NS. LS cream red/brwn arg. xtln, very hard, no por, NS

3751-62 As above

3762-72 As above, More Sh and Congl. Also LS cream grnstrn prtly rextlzd, very hard, no por, NS

3772-79 Sh red, Congl. and LS dirty arg.

3779-91 As above

3791-3803 Sh dk gry, red. LS cream and red arg. med xtln, very hard, no por, NS

3803-08 Sh red cly

Lansing F_3590.JPG
 9/30/19 @ 3592'
 Survey 1.5 deg
 Pipe Strap - 2.36' long
KS Drilling Technologies
Mud check 10/1/19
 Depth: 3592' Btms Up: 35 min
 Wt: 9.0 Vis: 57 Filt: 7.4
 Cake: 1/32" LCM: 3# YP: 25
 Chlor: 3000 ppm Grad: 0.468 psi/ft

Lansing J_3680.JPG

Lansing K_3702.JPG

Wt. 9.2
 Vis 50
 LCM 3 #

Wt. 9.3
 Vis 50
 LCM 2 #

