

OPERATOR

Company: CARRIE EXPLORATION AND DEVELOPMENT
 Address: 210 W 22ND
 HAYS, KS 67601

Contact Geologist: RON HEROLD
 Contact Phone Nbr: 913-961-2760
 Well Name: SELLS DOXON BUNKER UNIT # C-1
 Location: S2 NW SW NE Sec.23-12s-22w
 API: 15-195-22,940-00-00
 Pool:
 State: KANSAS

Field: OGALLAH NORTH
 Country: USA

Scale 1:240 Imperial

Well Name: SELLS DOXON BUNKER UNIT # C-1
 Surface Location: S2 NW SW NE Sec.23-12s-22w
 Bottom Location:
 API: 15-195-22,940-00-00
 License Number: 6768
 Spud Date: 5/30/2014 Time: 8:30 PM
 Region: TREGO
 Drilling Completed: 6/5/2014 Time: 4:00 PM
 Surface Coordinates: 1770' FNL & 2310' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2358.00ft
 K.B. Elevation: 2367.00ft
 Logged Interval: 3300.00ft To: 4130.00ft
 Total Depth: 4145.00ft
 Formation: MARMATON
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.7311987
 Latitude: 38.9953602
 N/S Co-ord: 1770' FNL
 E/W Co-ord: 2310' FEL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: GEOLOGIST

Name: BRUCE BASYE / HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING INC.
 Rig #: 8
 Rig Type: MUD ROTARY
 Spud Date: 5/30/2014 Time: 8:30 PM
 TD Date: 6/5/2014 Time: 4:00 PM
 Rig Release: 6/6/2014 Time: 7:00 PM

ELEVATIONS

K.B. Elevation: 2367.00ft Ground Elevation: 2358.00ft
 K.B. to Ground: 9.00ft

NOTES

DECISION TO RUN PRODUCTION CASING TO FURTHER TEST LKC AND MARMATON ZONES

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, AND MICRORESISTIVITY LOG

NO DRILL STEM TESTS WERE RAN ON THIS WELL

FORMATION TOPS COMPARISON

SELLS-DOXON-BUNKER UNIT #C-1 **DOXON-BUNKER C-1**
S2 NW SW NE **N2 SW SW NE**
SEC.23-12S-22W **SEC.23-12S-22W**
2358'GL 2367'KB

<u>FORMATION</u>	<u>LOG TOPS</u>	<u>COMPARISON</u>
Anhydrite	1787+ 580	+ 587
B-Anhydrite	1830 +537	+ 542
Topeka	3405-1038	-1036
Heebner Shale	3623-1256	-1255
Toronto	3644-1277	-1276
LKC	3658-1291	-1289
BKC	3897-1530	-1524
Marmaton	3986-1619	-1614
Arbuckle	4078-1711	-1690
RTD	4145-1778	-1767

ROCK TYPES

Congl	Lmst fw<7	shale, gry	Shcol
Chtcongl	Lmst fw>7	Carbon Sh	Dol Lime
Dolprim	shale, grn	shale, red	Lscongl

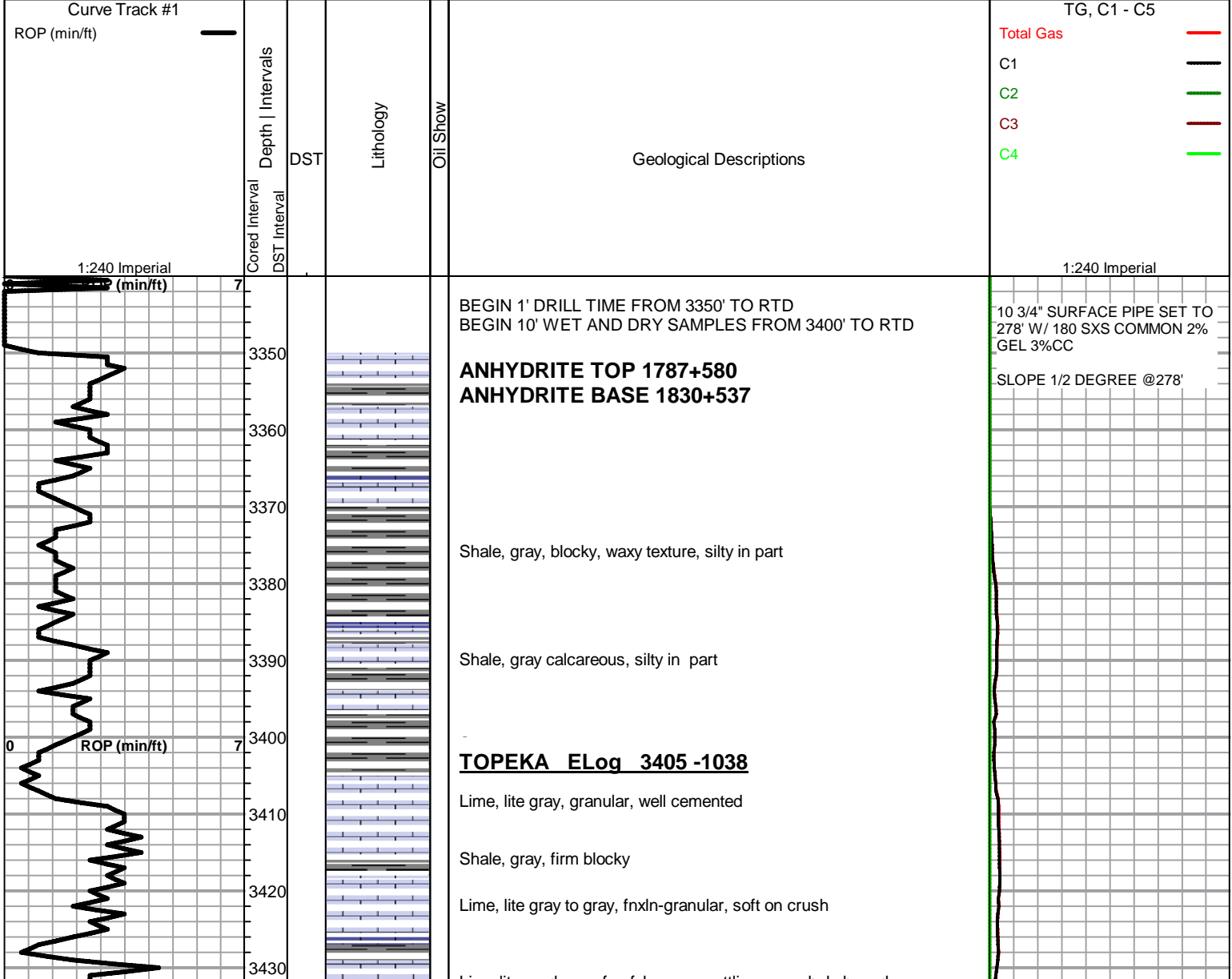
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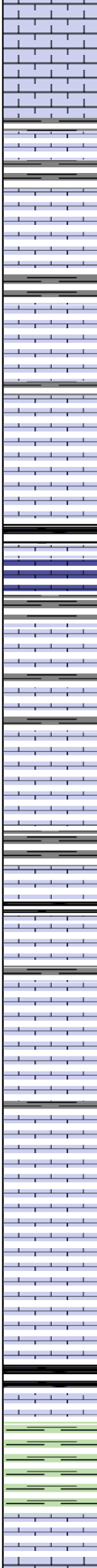
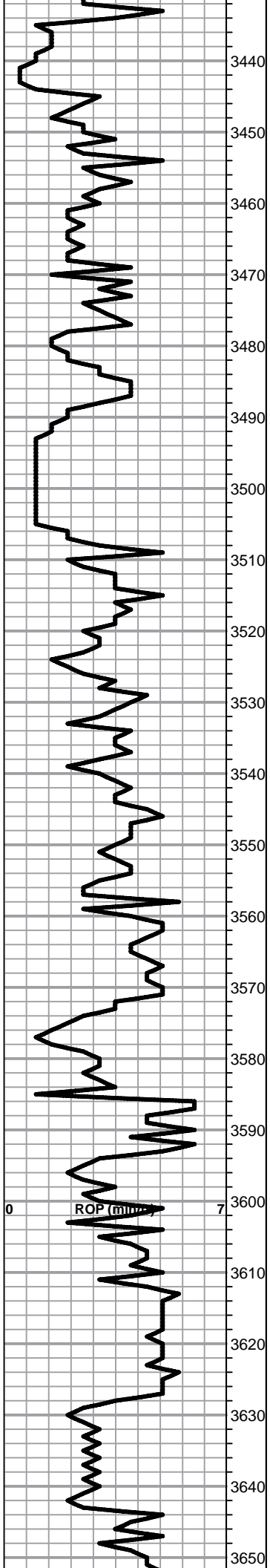
MINERAL
 Varicolored chert

OTHER SYMBOLS

DST
 DST Int
 DST alt
 Core

Printed by GEOstrip VC Striplog version 4.0.8.9 (www.grsi.ca)





Lime, lite-med gray, fn-vfxln, gray mottling near shale boundary

3440 Shale, gray, blocky, fissle

3450 Shale, lite gray to gray, blocky, fissile

Shale, lt gray-lt red, soft blocky

3460 Lime, lite gray to gray, fusulinids in fnxln matrix

3470 Lime, lite gray to gray, fnxln-granular

3480 Lime, lite gray to gray, medium size grain, very well cemented

3490 Lime, lite brown, chalky, soft on crush, NS

3500

3510 Shale, lt gray-black carbonaceous, fissile, blocky

Shale, gray, blocky and fissle

3520 Lime, cream color, small red brown strks in matrix, fnxln-granular

3530 Lime, lite brown to med brown, fnxln, platy, thin slices shatter on break

3540

AA, chalk with white chalk wash

3550 Shale, calcareous, very soft

Lime, tan to lite brown, fnxln, fossilliferous, fusulinids in fnxln matrix

3560 Shale, lite gray-black carbonaceous, blocky, fissile, waxy texture

Lime, lite brown, vfxln-micro xln, breaks extremely hard, fracture on break

3570

Lime, lt brn, fnxln-granular, slight bedded chalk, NS

3580

Lime, tan to lite brown, fn-vfxln, fractures easily on crush

3590

Lime, tan to lite brown, fnxln, platy, thin slices shatter on crush

3600

Lime, cream to tan, fnxln, chalky

3610

3620

HEEBNER SHALE ELog 3623 -1256

Shale, black, carbonaceous, blocky, fissile

Lime, lt-med brn, fn-micro xln

3630

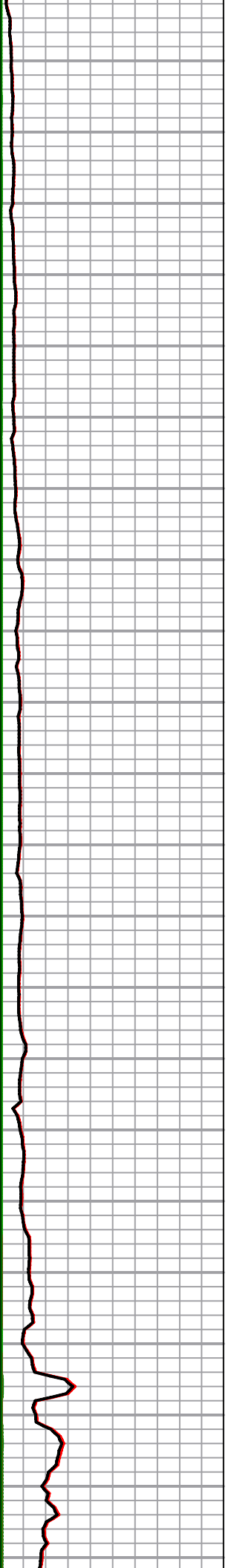
Shale, dove gray, lime green, blocky, soft

3640

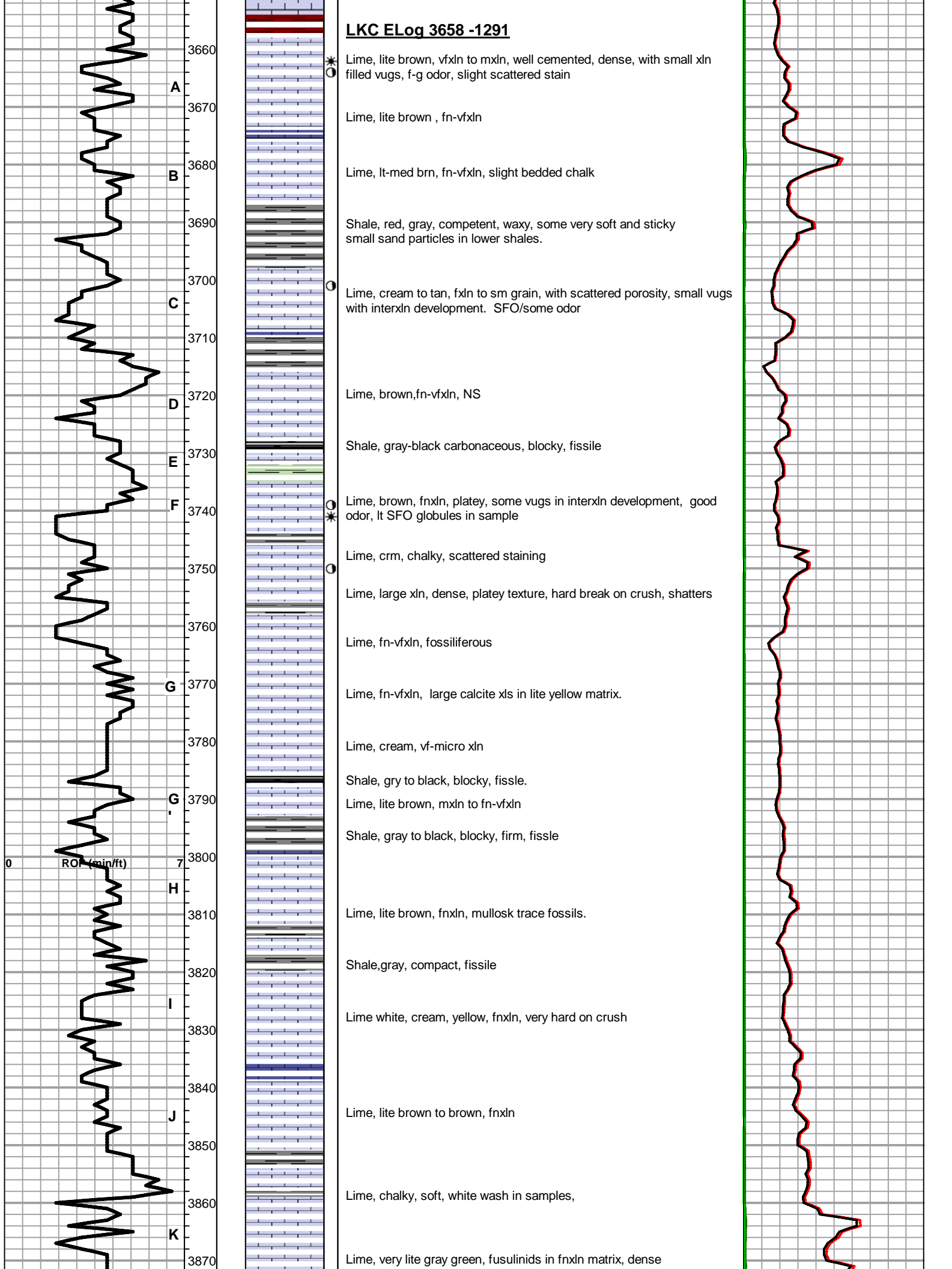
TORONTO ELog 3644 -1277

Lime, lite gray, fnxln, dense, chalky in part

3650



LKC ELog 3658 -1291



3660

A

3670

B

3680

3690

C

3700

D

3710

E

3720

F

3730

G

3740

3750

3760

G

3770

3780

G

3790

3800

H

3810

I

3820

3830

J

3840

3850

K

3860

3870

* Lime, lite brown, vfxln to mxln, well cemented, dense, with small xln filled vugs, f-g odor, slight scattered stain

Lime, lite brown , fn-vfxln

Lime, lt-med brn, fn-vfxln, slight bedded chalk

Shale, red, gray, competent, waxy, some very soft and sticky small sand particles in lower shales.

Lime, cream to tan, fxlN to sm grain, with scattered porosity, small vugs with interxln development. SFO/some odor

Lime, brown,fn-vfxln, NS

Shale, gray-black carbonaceous, blocky, fissile

Lime, brown, fnxln, platy, some vugs in interxln development, good odor, lt SFO globules in sample

Lime, crm, chalky, scattered staining

Lime, large xln, dense, platy texture, hard break on crush, shatters

Lime, fn-vfxln, fossiliferous

Lime, fn-vfxln, large calcite xls in lite yellow matrix.

Lime, cream, vf-micro xln

Shale, gry to black, blocky, fissile.

Lime, lite brown, mxln to fn-vfxln

Shale, gray to black, blocky, firm, fissile

Lime, lite brown, fnxln, mullosk trace fossils.

Shale,gray, compact, fissile

Lime white, cream, yellow, fnxln, very hard on crush

Lime, lite brown to brown, fnxln

Lime, chalky, soft, white wash in samples,

Lime, very lite gray green, fusulinids in fnxln matrix, dense

ROP (min/ft)

