

Ls. lt tan. Gry. Arg. tight
NVØ. N.S.

red shales predominate

Ls q/a + lots of shale.

Ls. lt tan-Gry. dse, NVØ
N.S.

sh. red - bleeding - gry

sh. red - gry

tr ls.

sh. drk gry - + rd sh.

rd sh. bleeding

Ls. lt tan. fn. xln + foss,
w/ scatt Ø N.S. Chky

Neva
3776 (-389)

Ls. lt tan. fn. xln + foss
w/ scatt Ø. N.S. Chky

Ls. lt tan. fn. xln. v. sh. ly

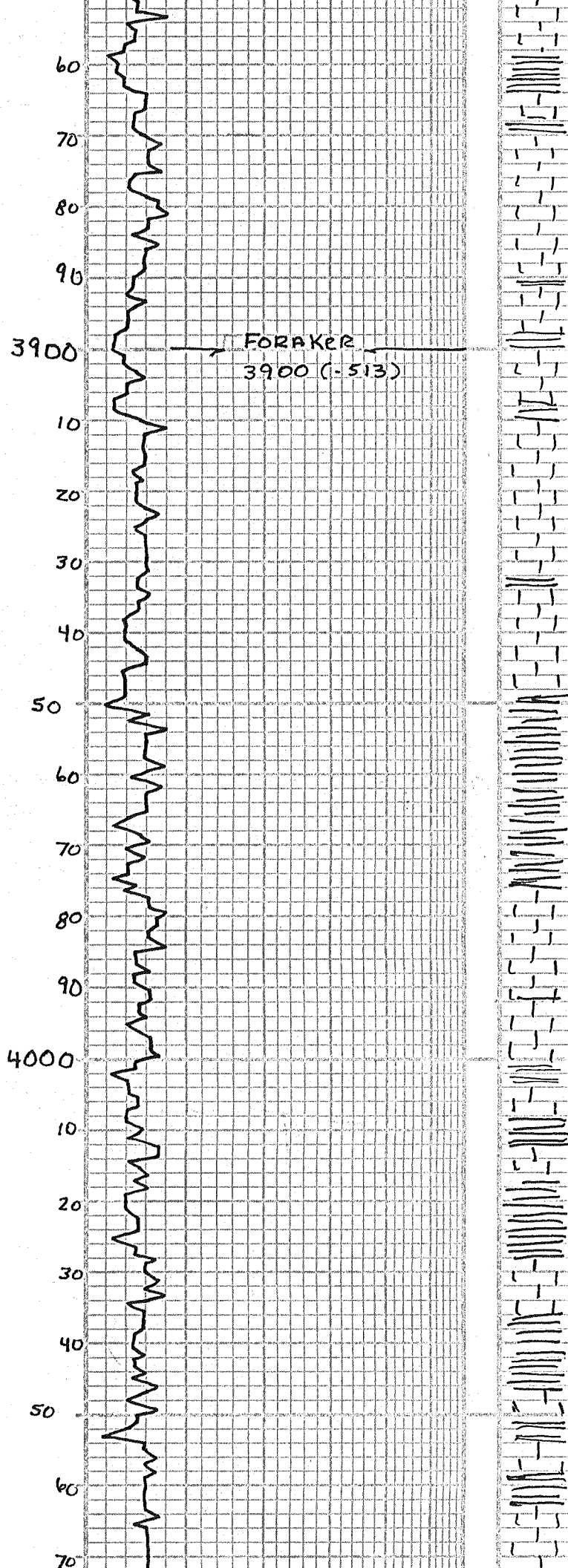
Ls q/a - sh. red.

? Ø poor spl

sh. red

Ls. lt tan. fn. xln. sl.
foss. N.S.

Ls q/a +



Ls. lt tan. fn. xln. st foss
scat p N.S. SHLY

Ls. lt tan. fn. xln. arg
pr. N.V. N.S. SHLY

Ls. lt tan. fn. xln. tight
chky. N.S. SHLY

Ls. tan. fn. xln. foss
pr. N.S.

sh. + ls. tan. fn. xln. foss
pr. N.S.

Ls. lt tan. fn. xln. + slt
foss - dse, N.S.

Ls. tan. gry. dse, N.V. N.S.

Ls. brn. dse, N.V. N.S.
inc in sh.

sh. gry. mar. red -

fr. ls. N.S.

sh. gry. rd. mar

ls. Crm. fn. xln. slt ool.
2 pcs dead asp - stn -
no live oil.

ls. tan. brn. dse, N.V.
N.S.

Ls. lt. tan. fn. xln. slt foss
- N.S.

sh. mar. dx. gry.

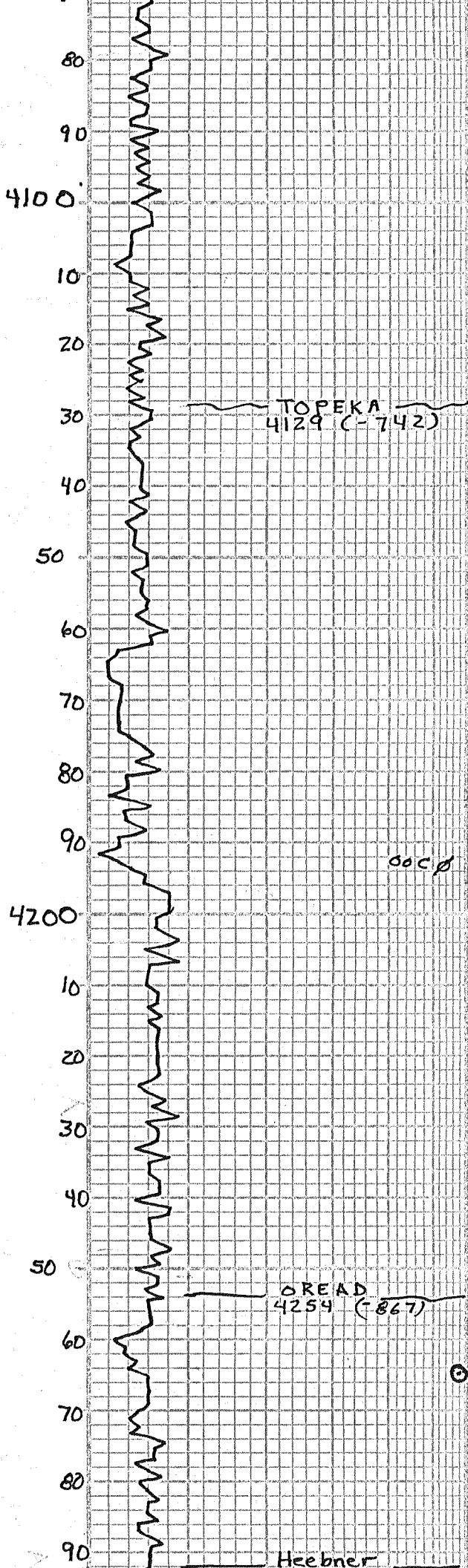
Ls. lt tan. gry. fn. xln.
tight. N.S.

Ls. lt tan. gry, N.V. N.S.

Ls. gla, N.S. tight Rx
sh - varicolored

sh. varicolored

Ls. lt tan. fn. xln. foss
mostly tight - N.S.



Ls. lt tan, fn-xln, foss, N.S.

sh. varicolor

Ls. Crm-lt tan, fn-xln+foss
N.S. CHKY.

sh. varicolored

Ls. lt tan-Gry, fn-xln-
foss. fr-pr. Ø. SLI CHKY
N.S.

sh. gry-red

Ls. lt tan-lt Gry, fn-xln
SLI FOSS. N.S. CHKY

Ls. Crm-lt Gry, fn-xln
SLI FOSS - N.S. CHKY

sh. gry-red

sh. gry-red.

sh. gry-rd - Grn - siltstone

Ls. Crm. fn-xln - ooc w/
fair small ooc Ø. N.S.

Ls. lt tan-lt Gry, dse,
NVØ. N.S.

Ls. lt Gry - dse, NVØ N.S.

Ls. lt Gry - dse, NVØ N.S.

sh. med-drk Gry + dse ls
N.S.

sh. drk-med Gry

Ls. lt tan, fn-xln, N.S.

Ls. Crm, fn-xln, foss
w/ 3-4 pe's w/ drk blk
asph f (ky str. NFO
No odor

Ls. tan, dse, NVØ
N.S.

Ls gla - shly

4292 (-905)

4300

10

20

30

40

50

60

70

80

90

4400

10

20

30

40

50

60

70

80

90

4500

10

LANSING
4345 (-958)



sh. blk Carb.

ls. brn, dse, NVØ N.S.

sh. varicolored

sh. mar-gry

sh. gry + mar

ls. tan. fn-xln v. slt foss
3 pcs w/ blk asph. str
-flakey, MFD, NO odor

ls. lt. tan - tan slt foss -
2 pcs w/ dead oil str. pr.Ø
N.S.

ls. tan. fn-xln. tight
N.S.

ls. tan. fn-xln. tight
NVØ N.S.

ls. Crm-Gry, fn-xln -
tight - N.S.

SILTSTONE - CR - tight
NVØ - N.S.

sh. varicolored
fr ls. - dse, NVØ N.S.

SH. GRAY-MAR.

ls. lt. tan-Gry, fn-xln-dse
V-SLT FOSS. NVØ-PR Ø. N.S.
V-SLT CHKY.

ls. Crm - lt. Gry, fn-xln - slt
foss-dse, chky, N.S.

sh. Gry-blk-mar

ls. tan-Gry, fn-xln. tight N.S.

sh. mar-Gry.

ls. tan-Gry, fn-xln - slt foss
scatt Ø., N.S., CHKY.

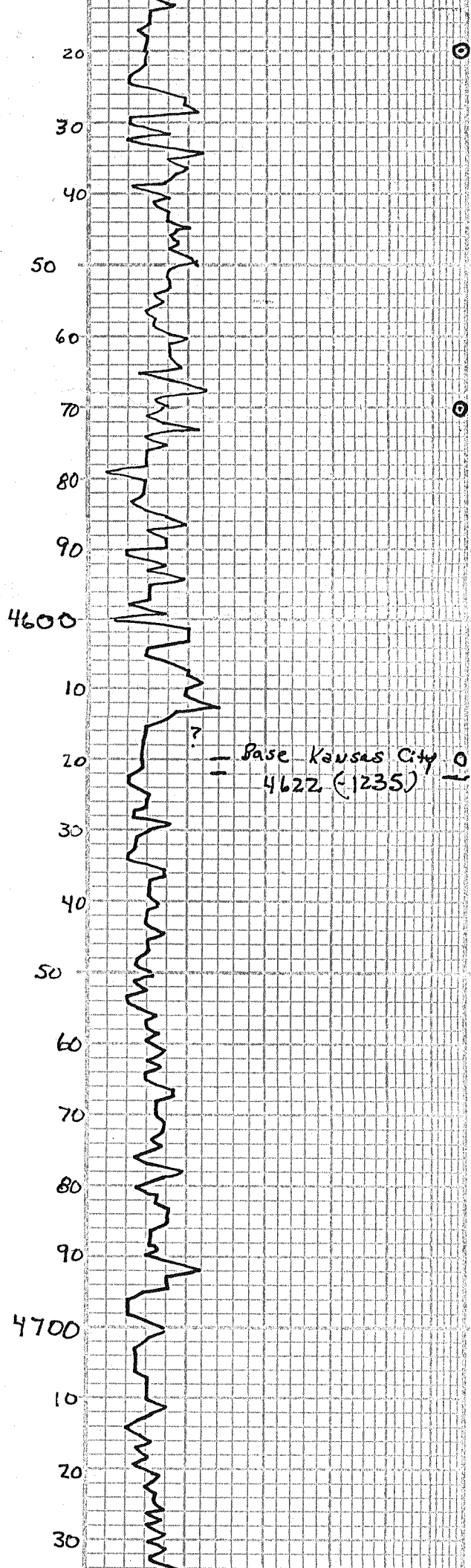
ls. Crm-Gry, fn-xln - foss
scatt Ø., N.S., CHKY

ls. Crm. Fn-xln - SLT FOSS
tr Ø. N.S. SLT CHKY

SH - BLK Carb.

sh. gry - drk Gry

ls. Crm - lt. tan. fn-xln
SLT - FOSS, pr scatt Ø.



N.S. CHKY.

sh. Gry-mar

Ls. H tan, fn-xln-dse
NVØ - V. chky.

Ls. Crm-H tan, fn-xln
CHKY-N.S.

SH-GRY-MAR.

Ls. Crm, fn-xln, 2-3 pc's w/
d.o. sta in pr xln Ø. NFD, NO
odor - CHKY

Ls. Crm-wh, fn-xln, 3-4 pc's
w/d.o. sta in pr xln:ppØ.
NFD NO odor - chky.

SH-BIK-Carb

SH-GRY-MAR

Ls. Crm, fn-xln - sli, oil
tight, pr NVØ. N.S.

sh. Gry-mar

Ls. Crm, fn-xln, tight
NVØ. - V. CHKY. N.S.

sh. Gry-mar + ls q/a
N.S.

sh. Gry-mar

Ls. tan, + gry, fn-xln
tight, pr Ø, N.S.

sh. gr-mar

Ls. lt tan-Gry, fn-xln
NVØ. N.S.

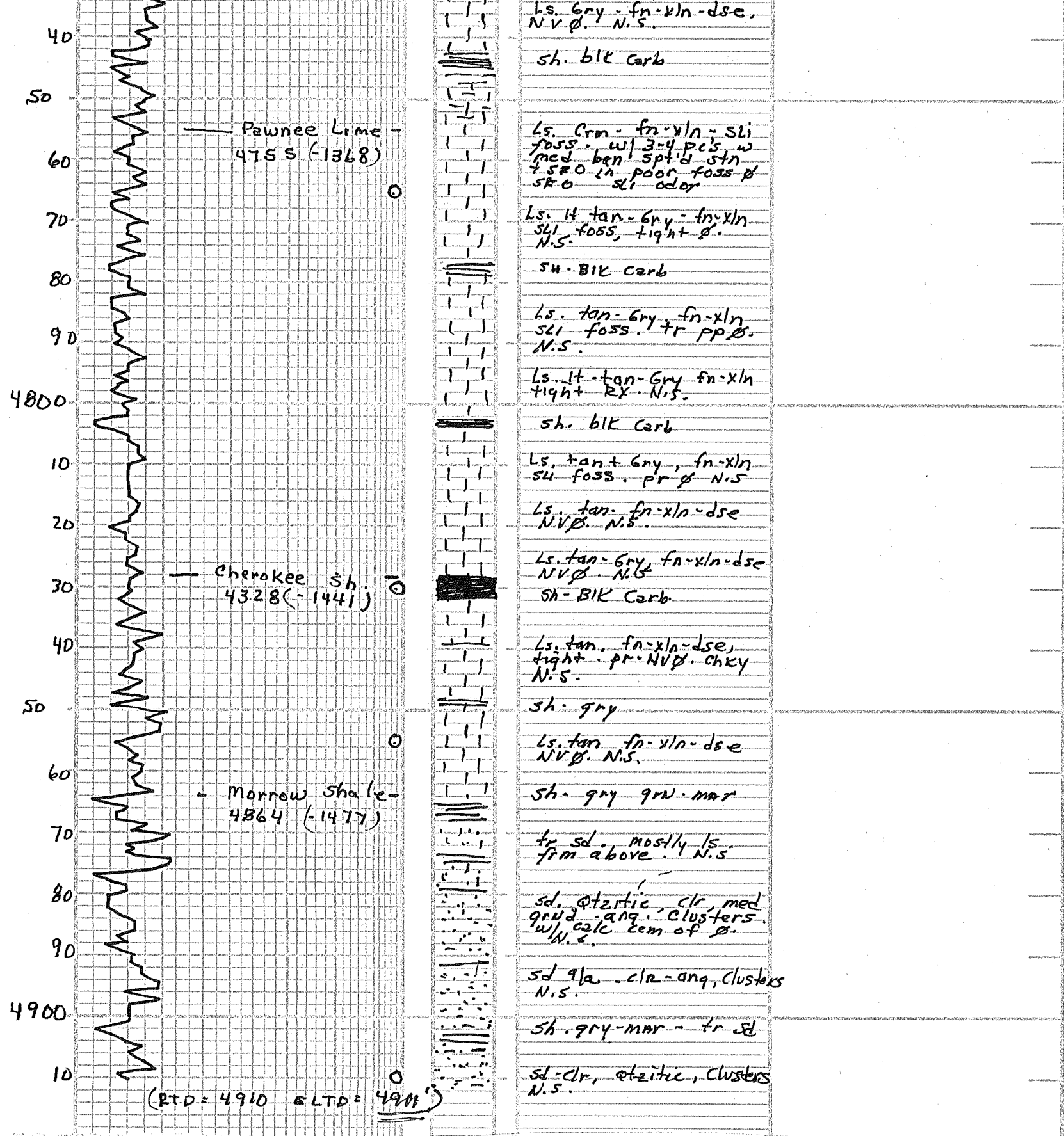
sh. gry-mar + Ls.
lt tan, fn-xln - N.S.

sh. gry-mar

sh q/a

Ls. H tan-Gry, fn-xln
tight. N.S. SHLY

Ls q/a N.S. shly.



DEPTH	DRILLING TIME Minutes/Foot	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
	5" 10" 15" 20" 25"			
	Rate of Penetration Increases			

COMPANY MURFIN DRILLING CO INC
 LEASE Knapp 1-30
 ELEVATION: 3387' KB

2010 FEB
LOCATION 2570' E SL + SEC _____ TWP _____ RNG _____
COUNTY Rawlins STATE Ks. 30 25 36 W