BRAD HUTCHINSON

116 EVES DRIVE
RUSSELL, KANSAS 67665

785-483-0492

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Prospect Oil & Gas, Inc.
LEASE DeYoung "C" #1
FIELD Cooper
LOCATION 850' FNL & 1000' FEL
SEC 11 TWSP 10S RGE 21W
COUNTY Graham STATE Kansas

ELEVATIONS
KB 2276'
DF
GL 2271'
Measurements Are All From Kelly Bushing

CONTRACTOR Royal Drilling, Inc.
SPUD 8-12-11 COMP 8-19-11
RTD ~~3917~~ 4100 (-1824) TD 3920 (-1644)
MUD UP 3200 TYPE MUD Chemical

CASING
SURFACE 8 5/8" @ 221'
PRODUCTION 5 1/2" @ 3979'

ELECTRICAL SURVEYS
CNL/CDL
MEL DIL

SAMPLES SAVED FROM 3300' TO RTD
DRILLING TIME KEPT FROM 3200' TO RTD
SAMPLES EXAMINED FROM 3300' TO RTD
GEOLOGICAL SUPERVISION FROM 3300' TO RTD
GEOLOGIST ON WELL Brad J. Hutchison

FORMATION TOPS	LOG	SAMPLES
Anhydrite	1740 (+526)	1746 (+530)
Topeka	3286 (-1000)	3281 (-1005)
Heebner	3481 (-1205)	3486 (-1210)
Toronto	3504 (-1228)	3507 (-1231)
Lansing	3520 (-1244)	3524 (-1248)
Arbuckle	3825 (-1549)	3830 (-1554)

			0
		11	

7505

REMARKS It was recommended that 5½" production casing be set and cemented at 3979', and the following zones to be tested thru acidization and polymer treatment.

1. ARBUCKLE - Perforate & Stimulate 3821b - 3840

Respectfully Submitted,

Brad J. Hutchison

Brad J. Hutchison

DAILY PROGRESS: 7:00 A.M.

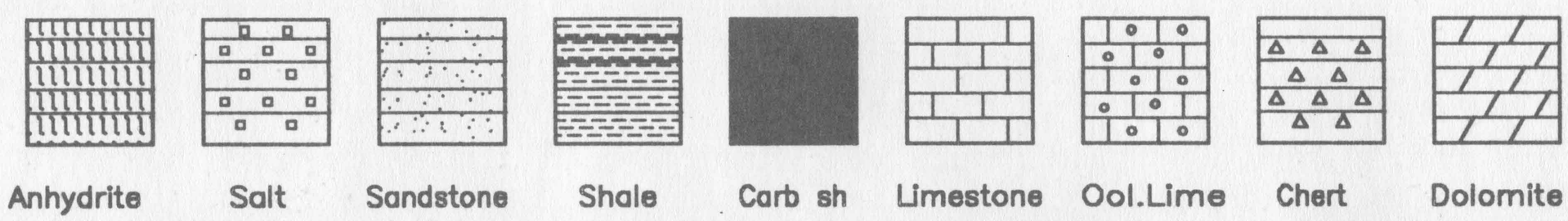
8-12-11	MIRU	
8-13-11	6916'	3 3/4 HRS.
8-14-11	1825'	23 1/2
8-15-11	2830'	44
8-16-11	3450'	64 1/2
8-17-11	3835'	80 3/4
8-18-11	3920'	84 1/4

SURVEY:	DEPTH:	DEVIATION:
	221'	3/4°
	3835'	1°

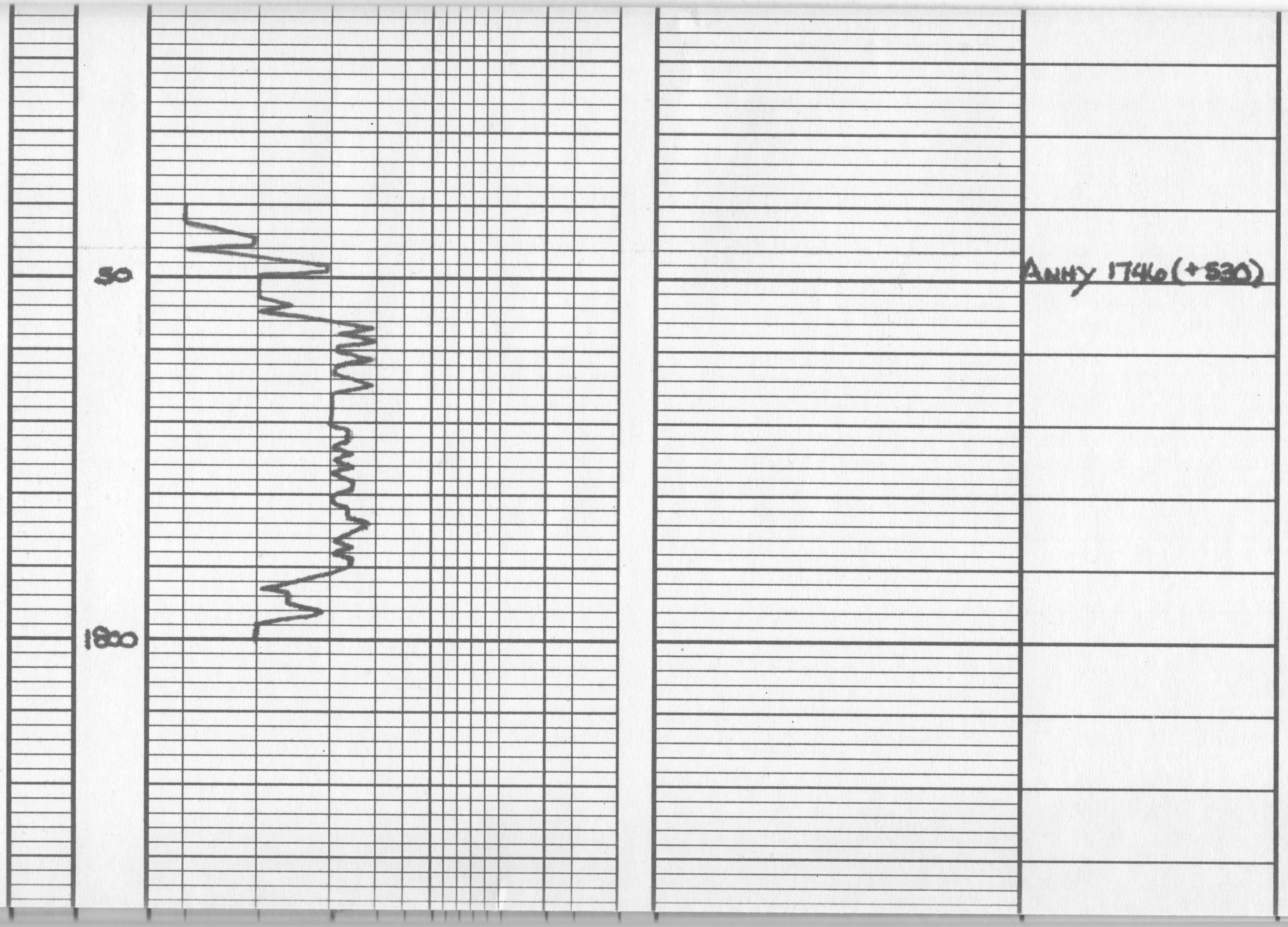
STRAP: .25' Long

LOG 7702

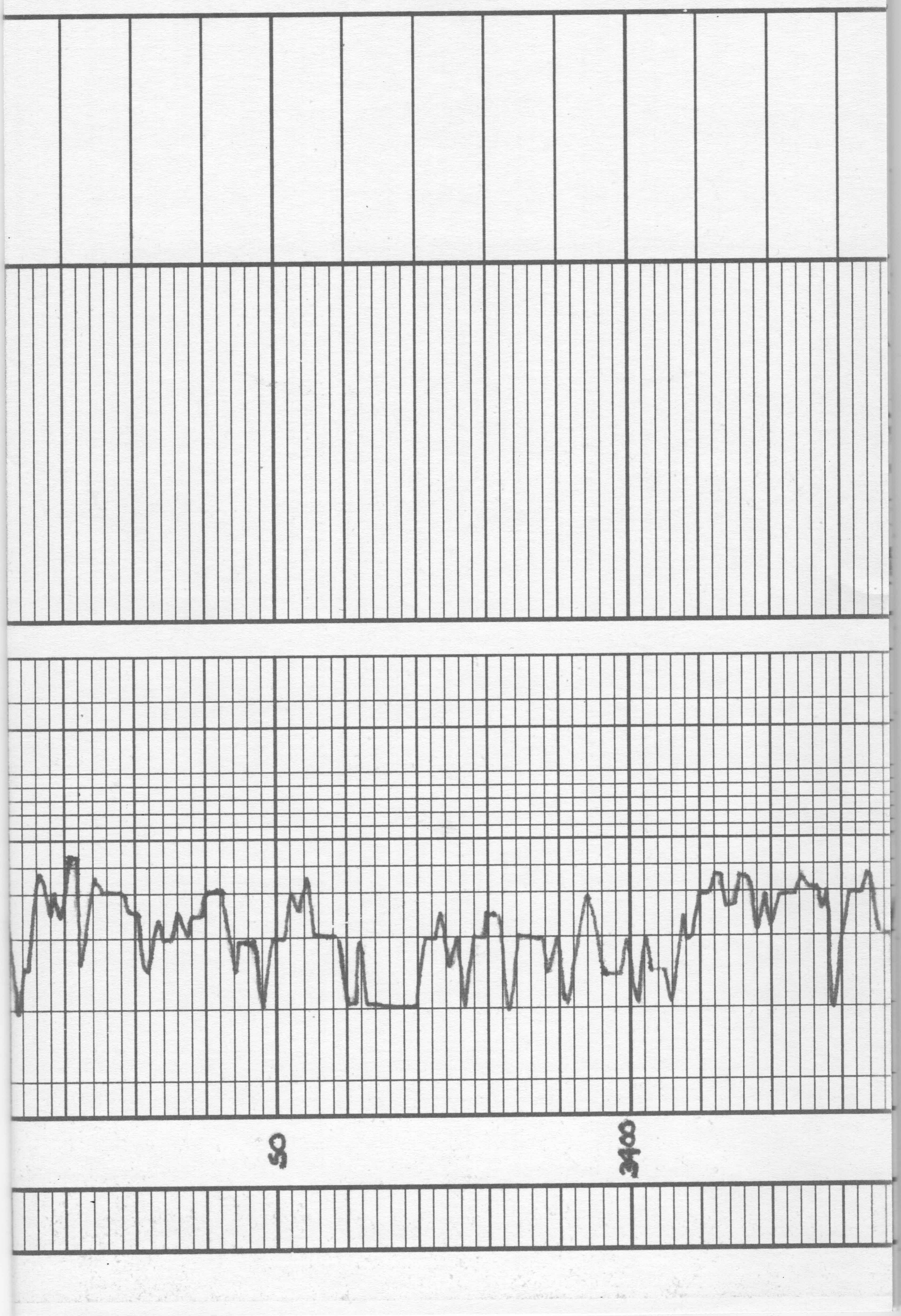
LEGEND

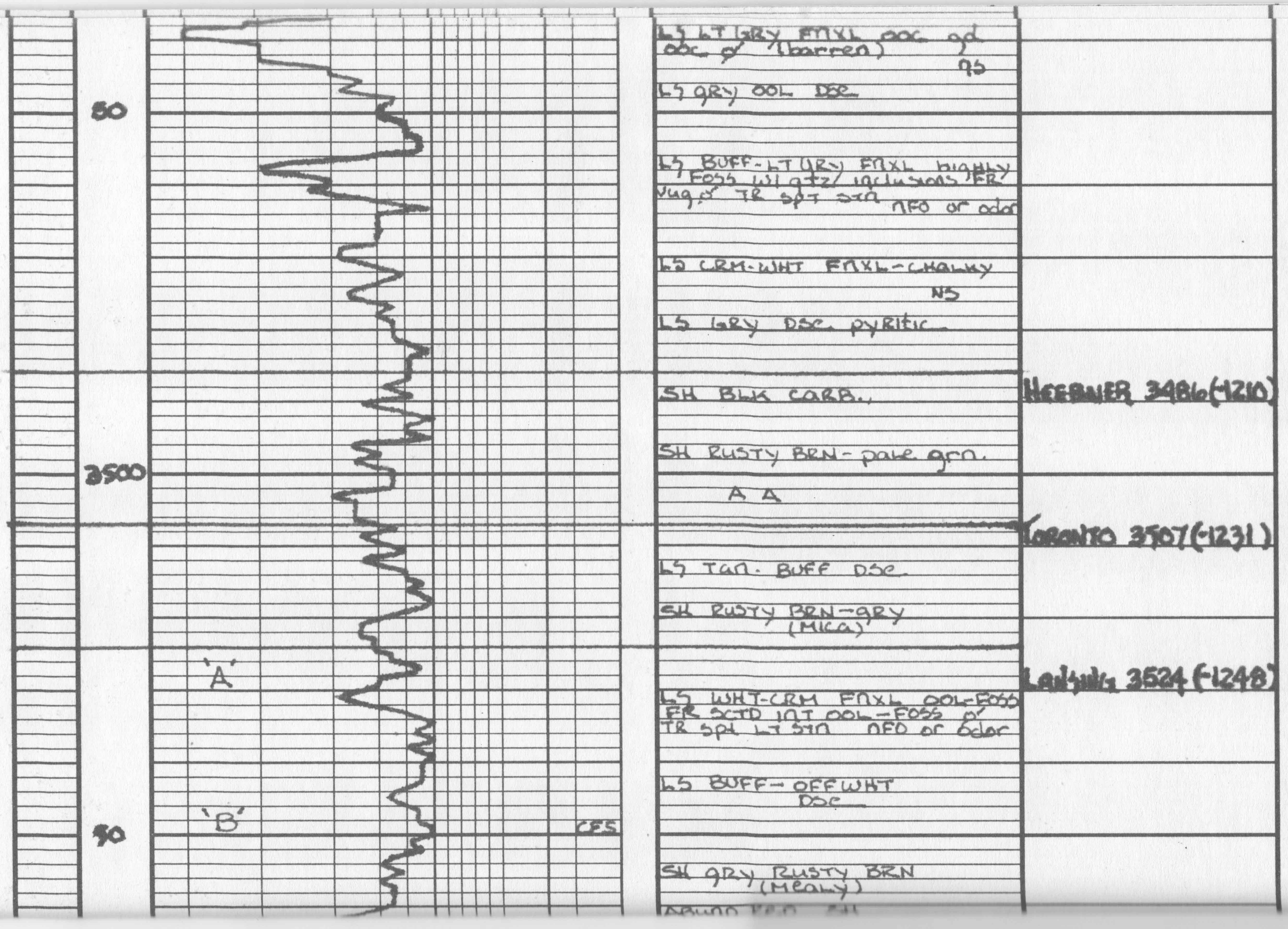


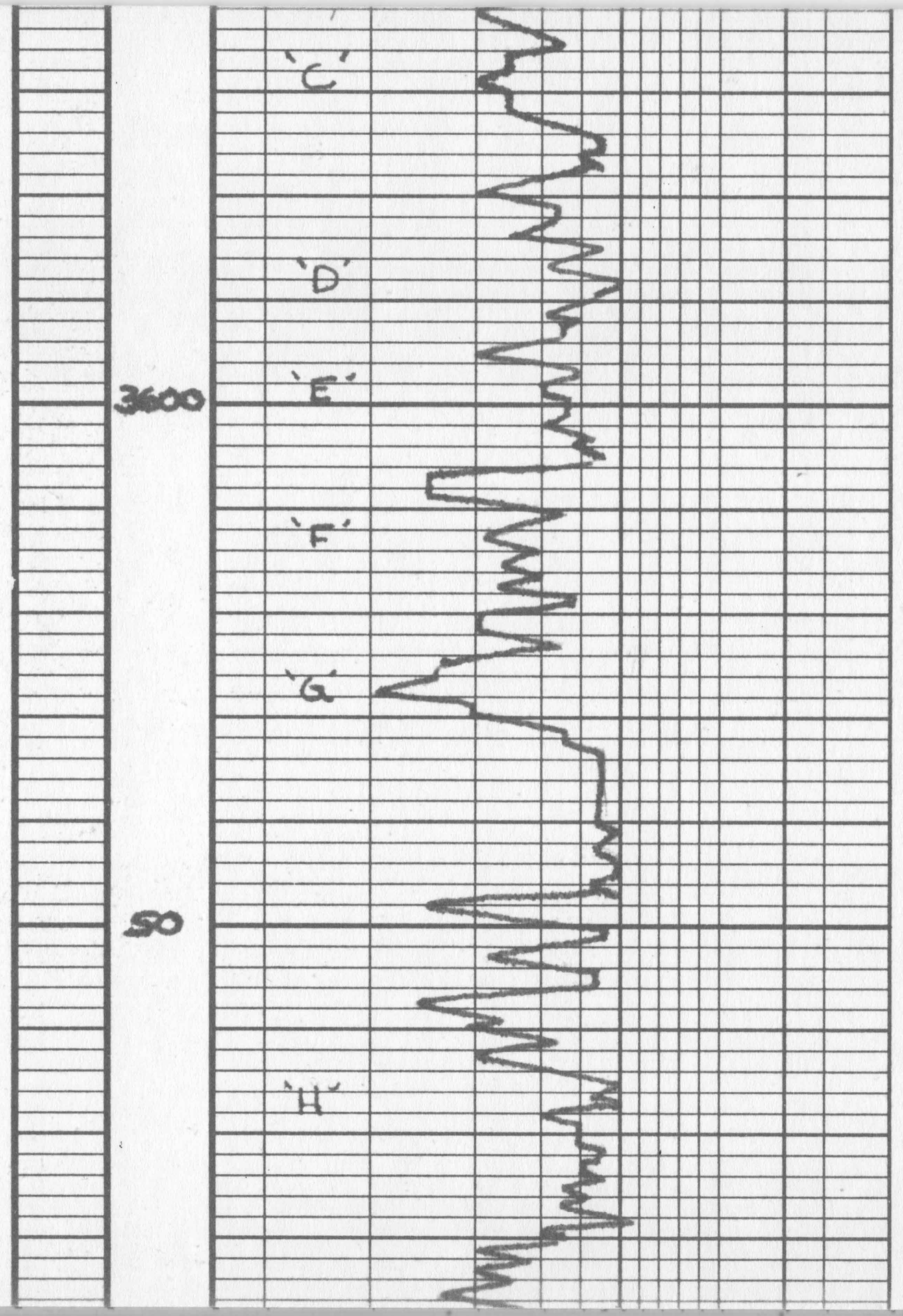
LITHOLOGY	DEPTH	DRILLING TIME (Logarithmic Scale) .5 1 2 3 4 5 10 15 20 30	SAMPLE DESCRIPTIONS	REMARKS
	1700			


50
1800
Anny 1746 (+530)

3200
50
3300
TOPEKA 3281(-1005)


50
3400


50
3500
50
'A'
'B'
CFS
LS LT GRY FNXL OOC gd
OOC p' (barren)
NS
LS GRY OOL DSC
LS BUFF-LT GRY FNXL HIGHLY
FOSS W/ qtz INCLUSIONS FR
vug p' TR SPT STN NFO or odor
LS CRM-WHT FNXL-CHALKY
NS
LS GRY DSC PYRITIC
SH BLK CARB.
SH RUSTY BRN-pale grn.
A A
LS TAN-BUFF DSC
SH RUSTY BRN-GRY
(MICA)
LS WHT-CRM FNXL OOL-FOSS
FR SCTD INT OOL-FOSS p'
TR SPT LT STN NFO or odor
LS BUFF-OFFWHT
DSC
SH GRY RUSTY BRN
(MEALY)
HEEBNER 3486(-1210)
TORONTO 3507(-1231)
LANSING 3524(-1248)



LS LT GRY - BUFF FNXL HIGHLY DOLOMITIC FOSS TR SPT PP-VUG Ø TR spt - scted STN-Sat TR FO FT ODOR

SH RUSTY BRN - PALE GRN W/ ABUND CRM-WHT CHALKY LS

LS WHT FNXL HIGHLY OOL FOSS FR scted int OOL-VUG Ø FR SCTD LT BRN STN SFO FT odor

SH BLK CARB

LS WHT-CRM HIGHLY CHALKY

LS WHT-CRM FNXL SL OOC v. poor OOC Ø (barren)

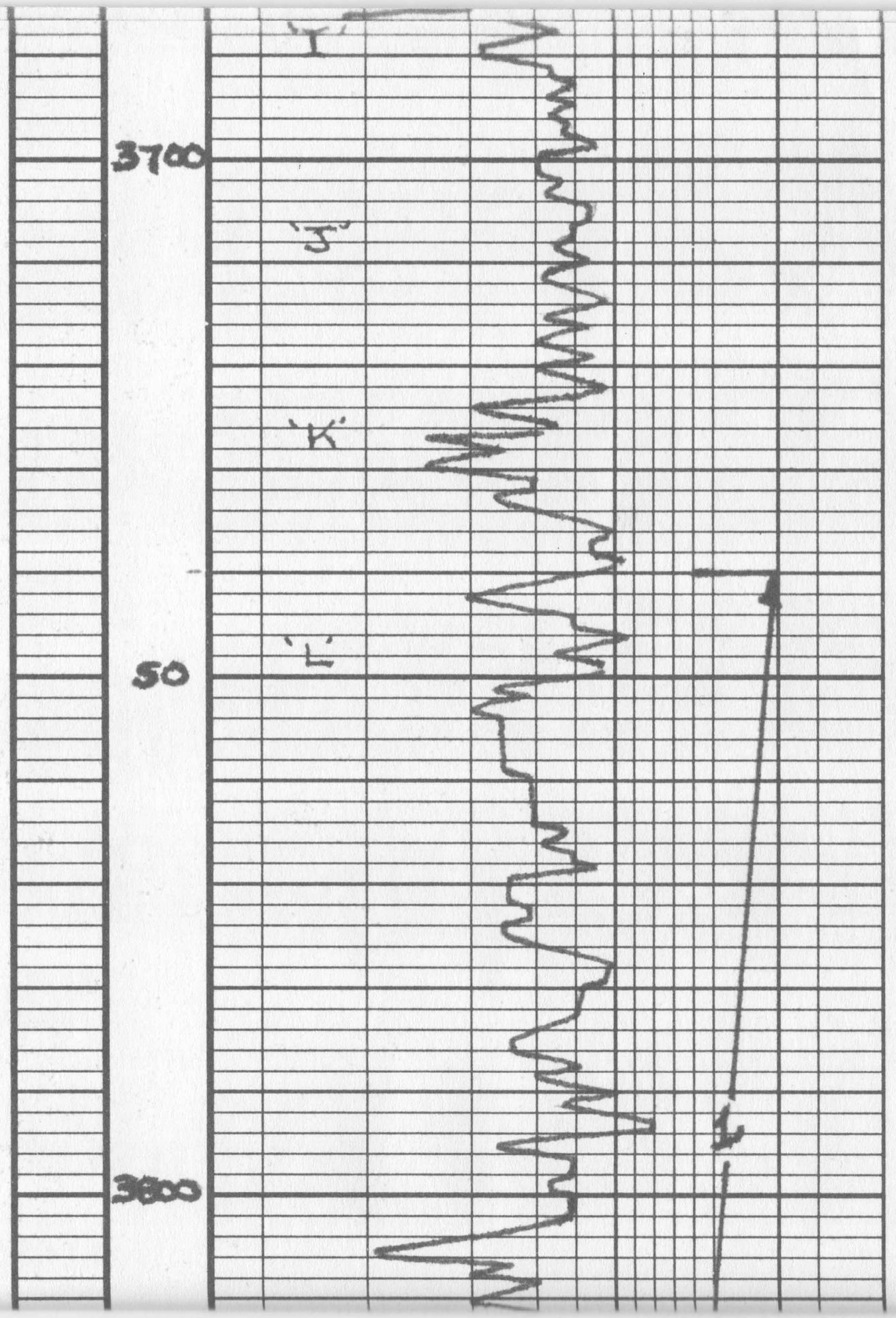
LS BUFF-LT GRY DSE

SH BLK CARB

LS LT GRY-BUFF SL FOSS TR spt edge syn.

SH GRY

LS BUFF-LT GRY DSE



TR spt pore vug o' spt
LT stn NFO SL odor

LS BUFF-LT GRY DSE
TR spt LT stn
no vis o' NFO or odor

SH GRY W WHT CHALKY
LS.

LS CRM-WHT FNXL-dse
highly ool-FOSS spt-sctd
INT OOL-FOSS o' sctd BRN
stn SFO WK odor
LS LT GRY dse

LS WHT-CRM FNXL OOL-
FOSS.

SH RUSTY BRN-pale grn.

ABUND RED-mar MICA
SH

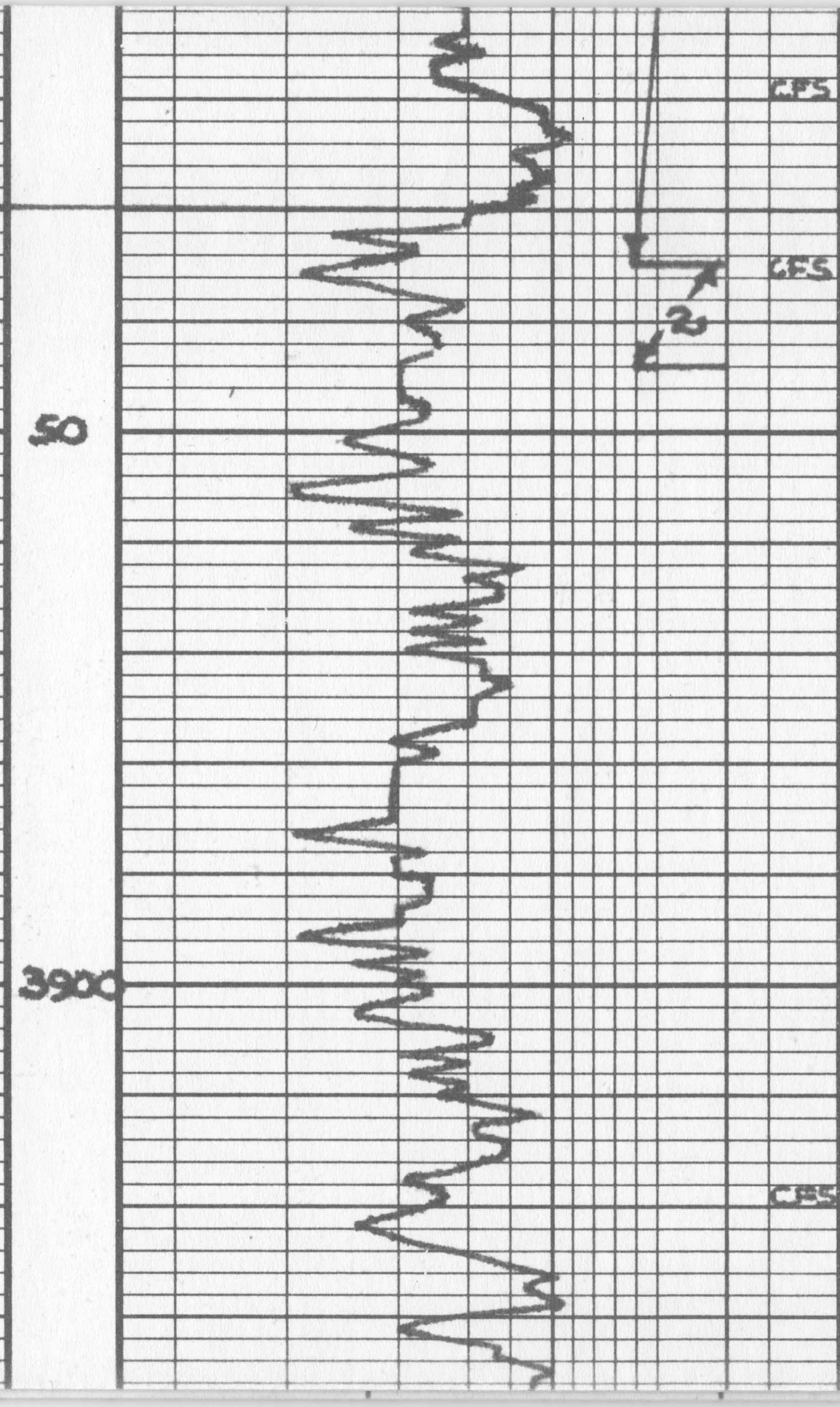
AA W/ ABUND CLR-FROST
qtz FRAGS TR vug o'
NO VIS STN

A VC IN matrix VC
SH

A U SH AA

DST-1, 3740-3835
15 · 30 · 15 · 30
IF BOB-1"
FF BOB-1"
REC. 765' V50CWM
10%O 25%W 65%M
1080' V50CMW
10%O 60%W 30%M
SIP (1063-1060)
FP (187-519)(553-644)
HSH (1992-1854)
BHT. 114°

STRAP .25' LONG



SH BLU-GRN WAXY
SIMPSON SH

DOLO LT GRY FN-MD XL
SANDY gd INT XL & gd
LT BRN-DK STN-Sat
gd SFO gd ODOR

SH

DOLO BUFF-TR PK MD XL-DSE
TR FR VUG & FR scat brn stn
sat FR SFO WK odor

DOLO BUFF-LT GRY DSE
BLOCKY TR STN

DOLO LT GRY FN-MD XL
TR WHT CHALK
NS

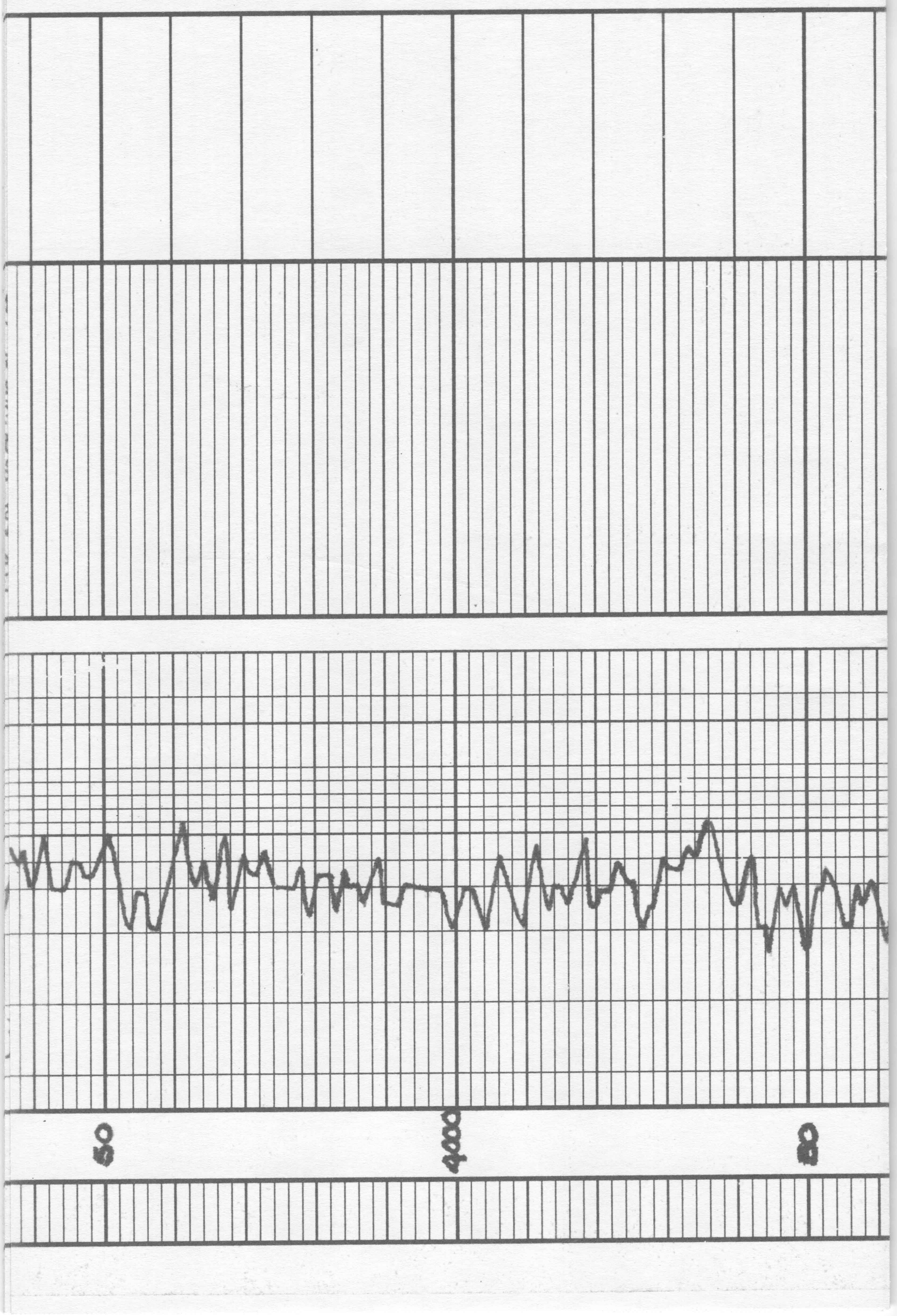
DOLO AA
NS

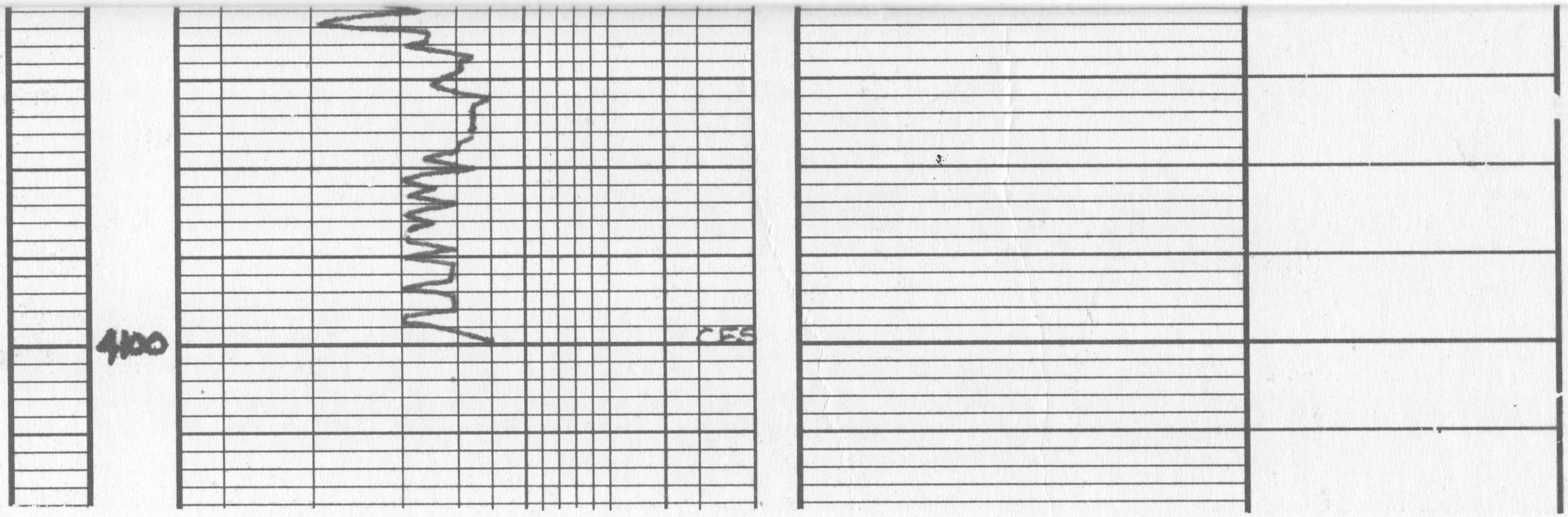
DOLO AA W/ LTR GRY DSE
DOLO.,

/
CHART PROFILE

ARBUCKLE 3880(-1554)

DST 2 3834-3844
15.15.5.15
IF BOB-50 SEC.
FF BOB-50 SEC.
REC 195' HOCMW
30% O 55% W 15% M
360' VSOCMW
1% O 94% W 5% M
1060' OCMW
15% O 80% W 5% M
SIP (1064-1061)
FP 187-519)(553-645)
HSH (1992-1855)
BHT 114°


50
4000
80


400
CES