

PERMIT 1033

MADISON COUNTY, FLORIDA

W 15017

Operator: Amoco Production Co

Elevation: c 93' GL c/14'

Landowner: Gilman Paper 22-2, No 1

Total Depth: 10,148 Log: 10,149

Base Cretaceous: 4834' Log. 4720' Location: 1532' FWL, 1340' FNL

Pre-Cretaceous Thickness: 5314'

Sec 22, Twp 2N, R 9E

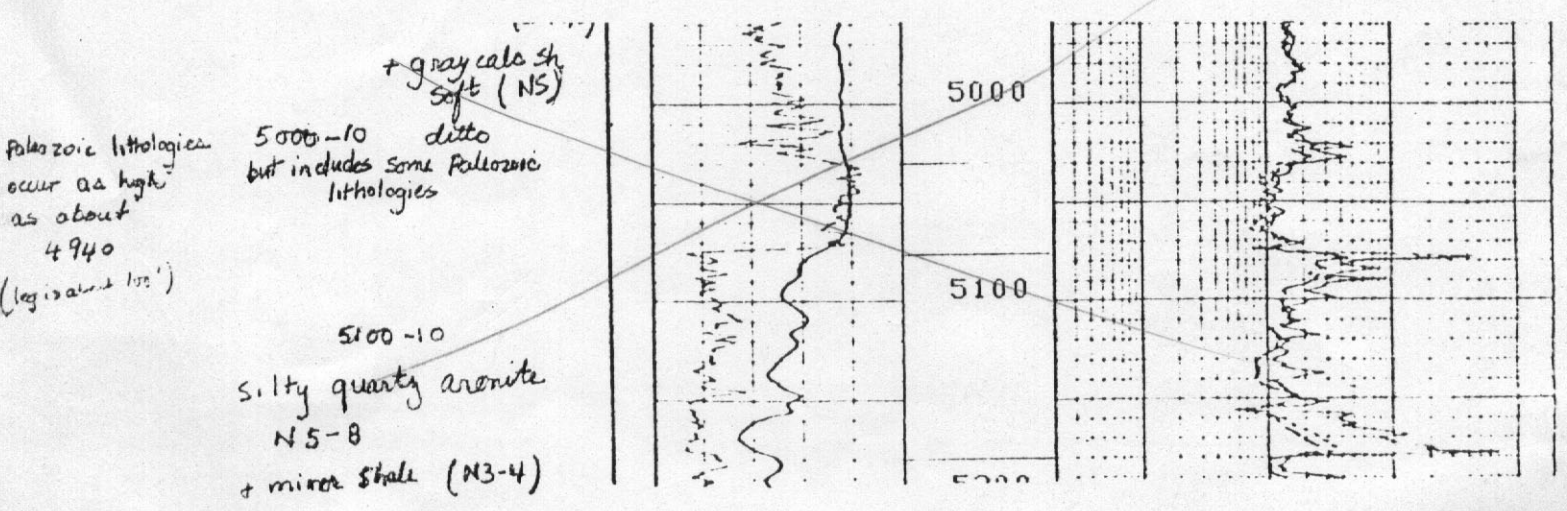
Completion Date: 11/19/81

Description

Section consists mainly of dark gray (N2-4) shale and micaceous siltstone with interbedded very fine to fine grained mature quartz arenites (N7-8). E-log indicates that these two lithologies are thinly interbedded throughout the section. Sandstones appear to predominate in the lower part of the section below about 9400' while shales and siltstones predominate above.

The intervals between 7950-8170, 7680-7750, 7030-80, 6685-6700, 5220-5350, 5075-5180, 4834-4875 appear to contain high percentages of sandstone but it is not possible to confirm this from the cuttings. Several diabase intrusions are present. Major intrusions occur between 5348-5440, and 5615-5750 (with a well developed aureole including spotted hornfels). Minor intrusions occur between 9209-9223 and 9714-18.

First Paleozoic cuttings appear around 4940 ft but contact is probably higher at 4834 judging by the E-log. The reddish brown silty mudstones encountered between 4820-5300+ are probably derived from the base of the Coastal Plain Sequence between about 4500-4834. They may be either Cretaceous or Jurassic.



4340-50
Qtz granules +
v coarse sand.

4800-10 - Qtz sand.
f-mg
Base Coastal Plain

Red Mdt begins
in 4820-30

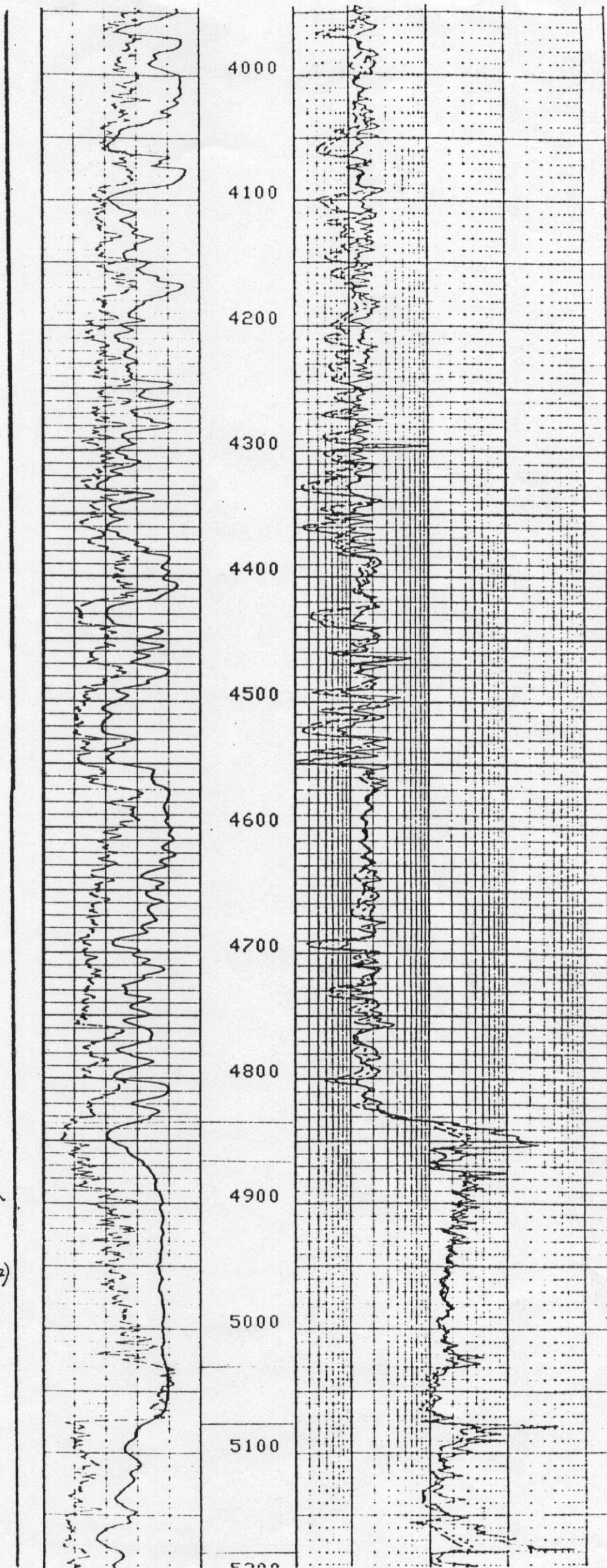
4850-60 Reddish brown
silty mudst
10R 3/4 + alter lith

4900-10 ditto +
calcareous sst
(SR 8/2)
+ gray calc sh.
soft (NS)

Paleozoic lithologies
occur as high
as about
4940
(log. 2' above 102')

5000-10 ditto
but includes some Paleozoic
lithologies

5100-10
silty quartz arenite
N5-8
+ minor shale (N3-4)



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Qtz granules +
v coarse sand.

4800-10 - Qtz sand.
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Base Coastal Plain

Red Mdat begins
in 4820-30

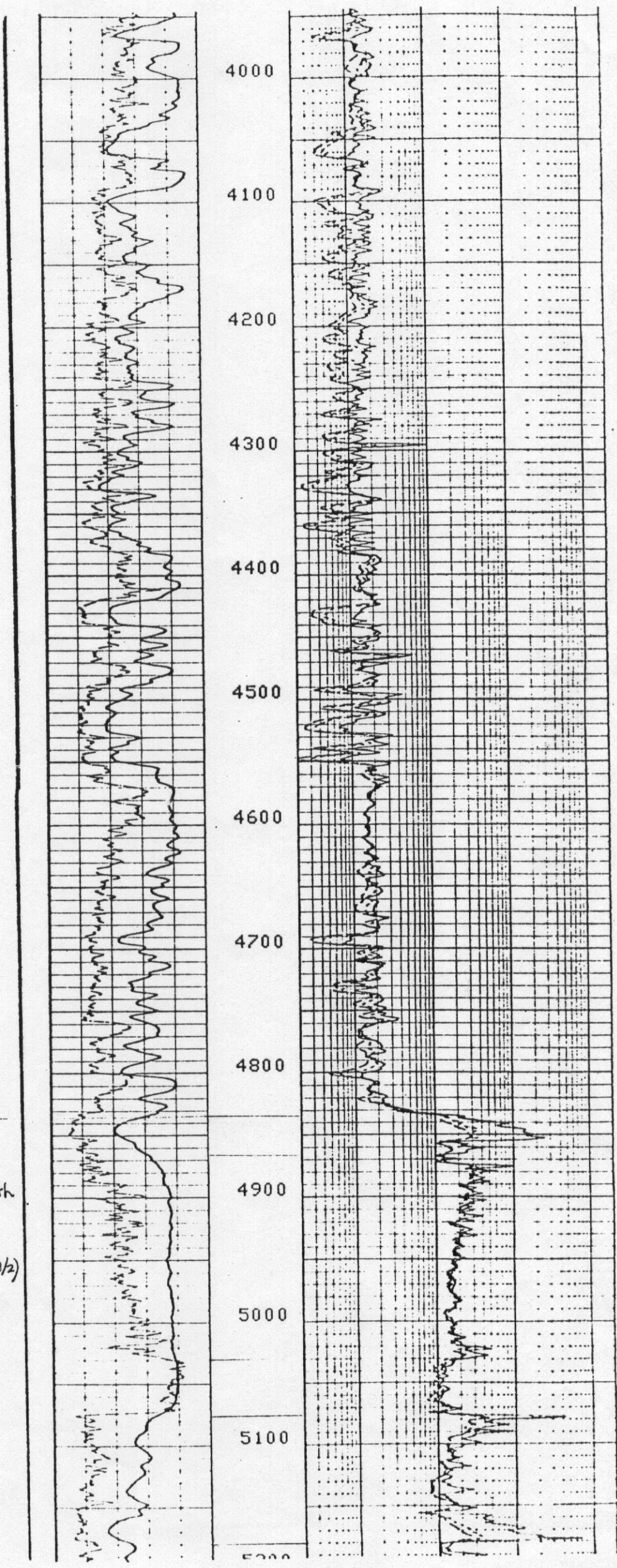
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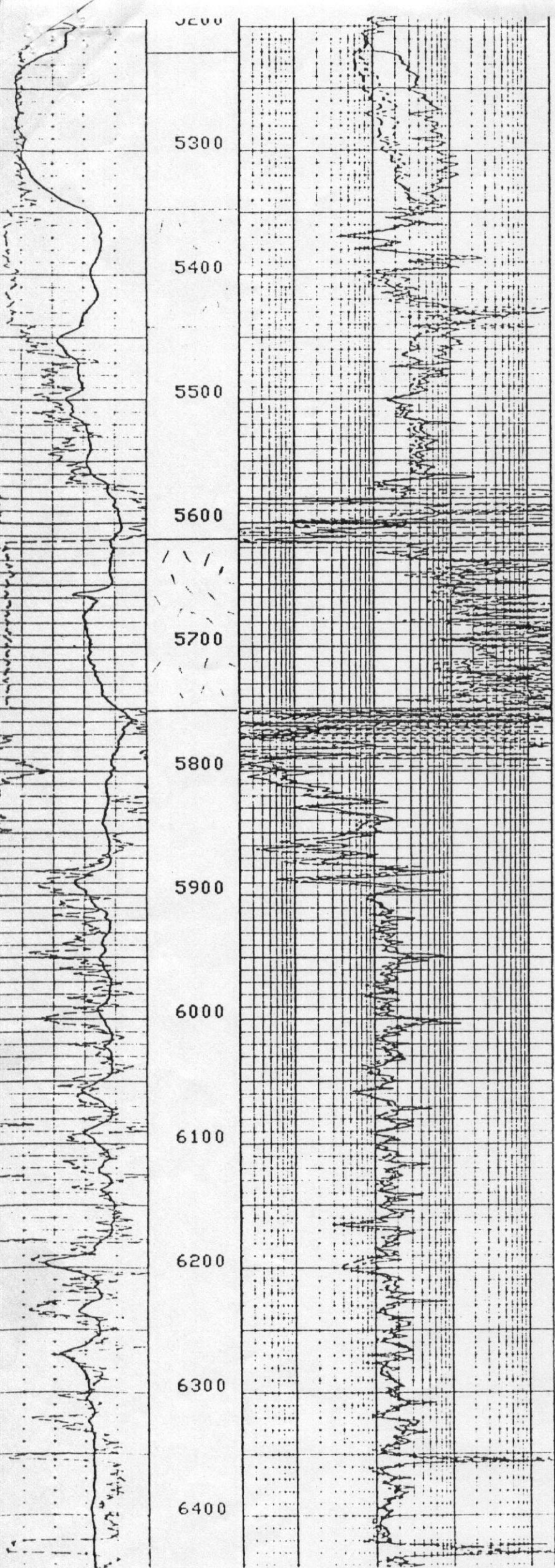
Paleozoic lithologies
occur as high
as about
4940
(log is about 100')

5000-10 ditto
but includes some Paleozoic
lithologies

5100-10
Silty quartz arenite
NS-8
+ minor shale (N3-4)



4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200



(contaminated with V cave)
 5300-10 Quartz arenite (N6-N7)
 vf - fg

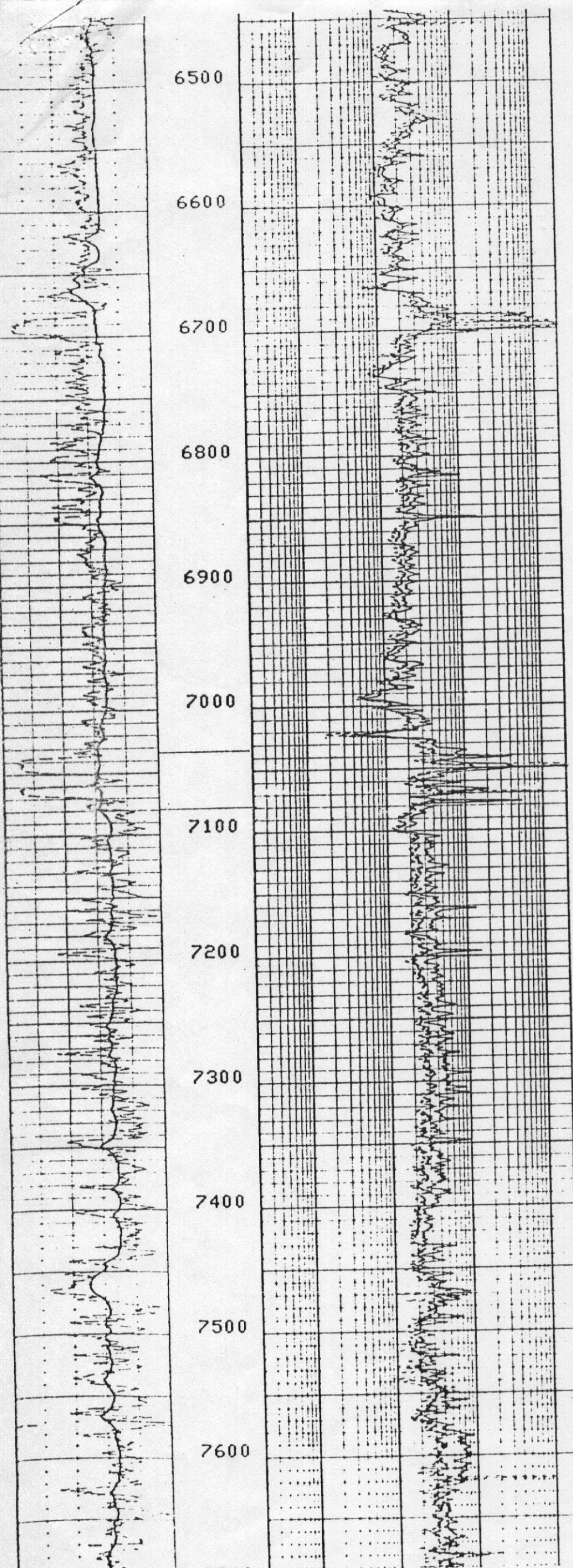
Diabase 5348 - 5440
 casing obscures interval
 below

(only a trace of diabase in cuttings
 at 5400 - diabase appears
 at 5440/50 according to
 mud log) - delay time?

5600-10 Diabase still present
 cave from higher diabase

5700-10 Diabase

6000-10 silty shale (N3)
 Qtz arenite (N8) vfg



6500
6600
6700
6800
6900
7000
7100
7200
7300
7400
7500
7600

6700-10 ^{BLK &} Dark gray shale (N2)
+ White Qtz arenite (N7)
(good cuttings). tr pyrite & igneo.

6800-6810 BLK & gr shale & Qtz arenite
1% pyrite & 1% igneous. micaceous

6900-6910 BLK-gray sh & Qtz arenite
1% igneous. micaceous

7000-10 same as 7070-80
7000-7010 fissile BLK sh. small cutting.
Sand med-crs. grain, ^{tr} pyrite.
micaceous

7070-80 Black fissile shale
very small cuttings (N2-N3)
[Appears to be sst interval: from
E-log]

7100-7110 BLK sh. fissile, large cuttings
micaceous. 2-3% igneous

7200-7210 same as below.
trace pyrite

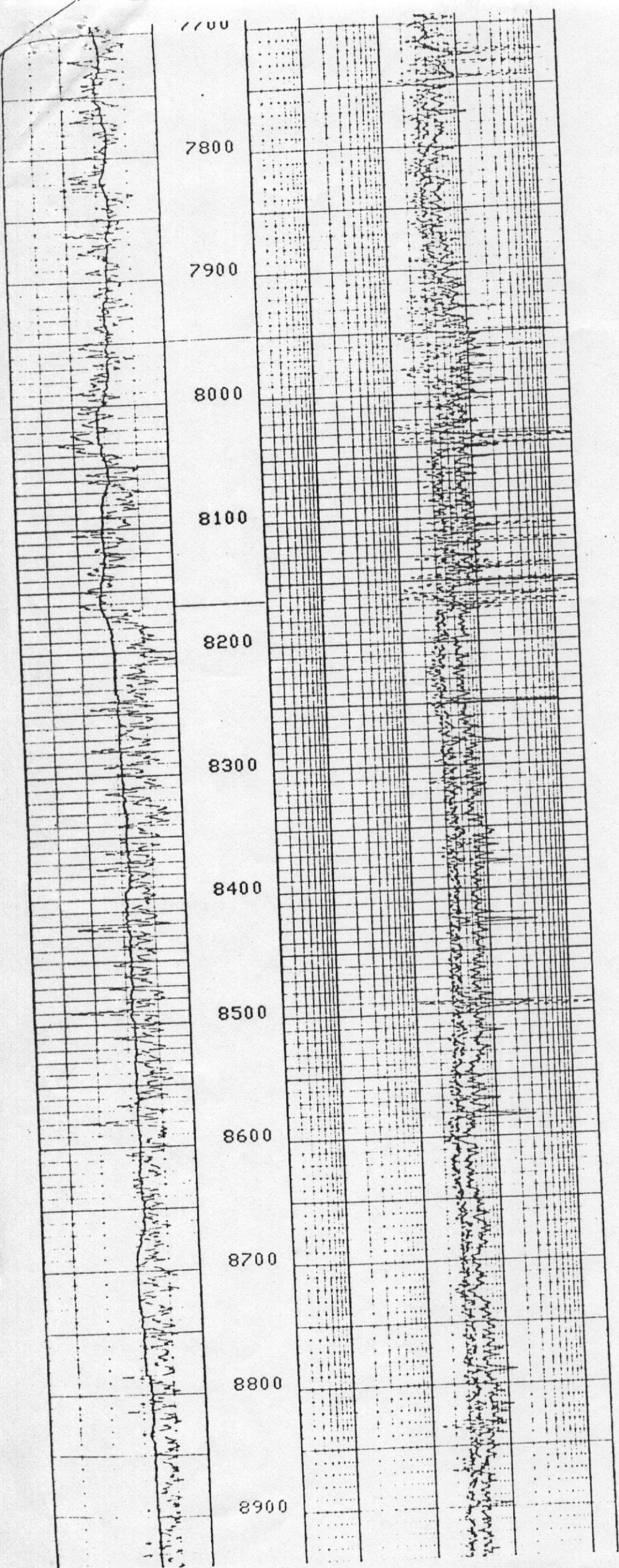
7300-7310 same as below, slightly fissile
Black shale / Qtz arenite (qtzose)
micaceous

7400-7410 shale Black (N3 dark gray) & Qtz.
arenite (quartzose). Shale is
micaceous.

7490-500 - same
7500-10 - similar to 8000

7590-7600 - dark black,
similar to 8000

7690-700 - same as 8000



7790-800 - same as 8000

7890-900 - same as 8000

7990-800 gray-dark gray mic. sh
 8000-10 (N3) arenite, Tr-diab
 Dark gray shale +
 siltstone + minor
 vfg quartz arenite (NS-MB)

8090-100 same

8140-50 same w/ trace diabase
 8150-60 Dark gray shale N2-3

& micaceous siltstone +
 8160-70 same, Tr-diabase
 8190-200 minor Qtz arenite
 same as above

8290 - 300 " "

8390-400 "

8490-500 " "
 8500-10 Dark gray shale +
 siltstone N3-4,
 micaceous
 minor Qtz arenite

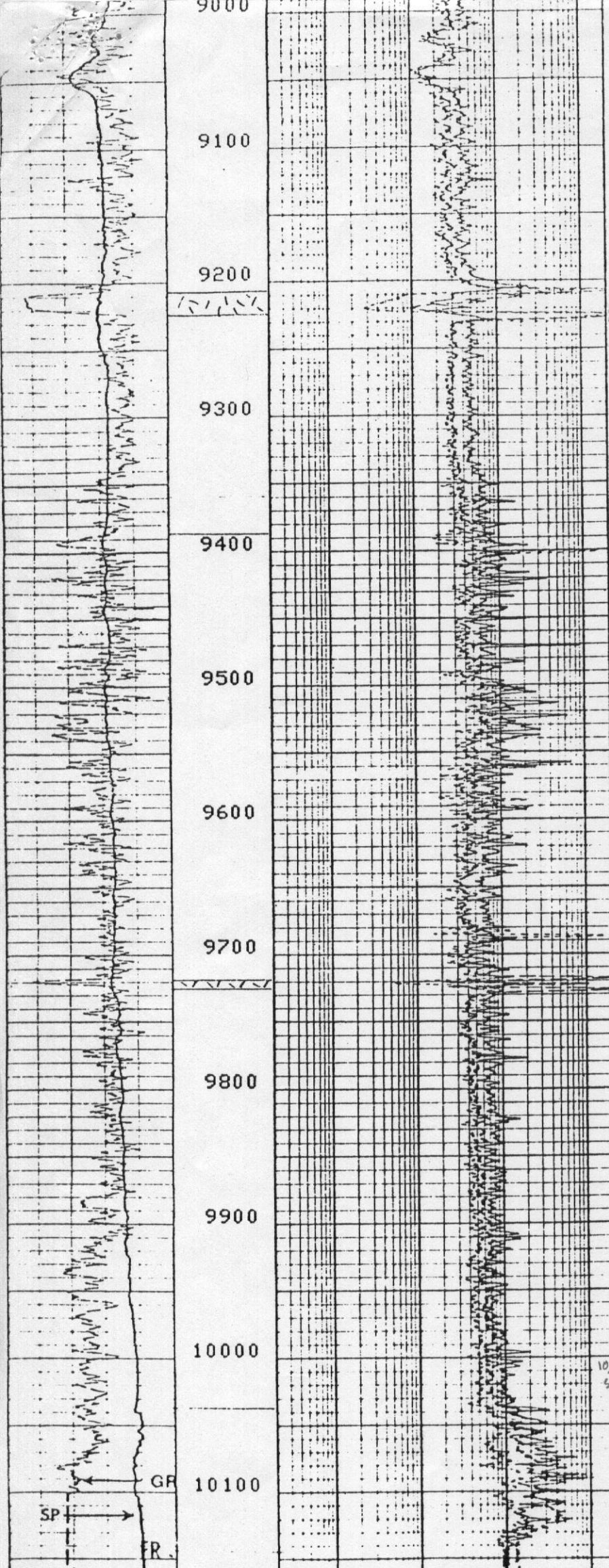
8590-600 " "

8690-8700 " "

8790-8800 " "

8880-90 " "

8950-60 micaceous sh,
 arenite, Tr-diabase



med-coarse dots on shale ?

9100-10 - Qtz arenite (NB)
micaceous shale + siltstone (N3-4)

9140-50 Qtz arenite, sh 10%, Tr gypsum (N8, N4)

9190-200 Qtz arenite, f-vf, mic, sh

9209 - 9223 Diabase

9220-30 - diabase, epidote?
30-40 - minor % diabase (N4)(N3)(N5)

9240-50 coarse ep. epidote, diabase 60%

9290-300 same; some cont. mineralization

9300-10 Qtz Arenite (NB)

+ micaceous shale
+ siltstone (N4-N5)



9389'

9390-9400 Qtz arenite (NB)
mic-sh, Tr-diab. Tr-anhy in cont. of w/arenite
Tr. Euhed. Qtz-coarse

9490-9500 same

9500-10 Qtz arenite (NB) f-vfg
+ minor micaceous shale

9540-50 - same

9590-600 Qtz arenite NB, Tr-diab, Tr-anhy
micaceous sh 8%

9692-700 - same, Tr-diabase, Tr, calc, Tr-anhy

9714-18 Diabase *

9710-20 - Qtz arenite, micaceous, sh, No Diab.

9790-800 Qtz arenite (NB)

9840-50 Qtz arenite (NB) 5% ep [same] ^{blk sh}

9850-60 - Qtz arenite

+ minor micaceous shale

9890-9900 - same finer gr.

9940-50 - same as

10040-50 5% sh, micaceous

Qtz arenite, tr rhombs (N7)
(3% diabase cont.) 5% ep



10070-80 as above

10090-10100 10130-140

10000-10 same w/ 5% calcareous mud

10130-40 *

Quartz arenite (N7) - vfg-fg

Slightly calc. Greenish when wet

(56% ep) dry - (N7) very lt. gra.
5% ep lt. greenish gray-wet

few some Qtz rhombs - med, micaceous 5% arenite

COMPANY AMOCO PRODUCTION COMPANY
 WELL I GILMAN PAPER COMPANY 22-2
 FIELD WILDCAT
 COUNTY MADISON STATE FLORIDA