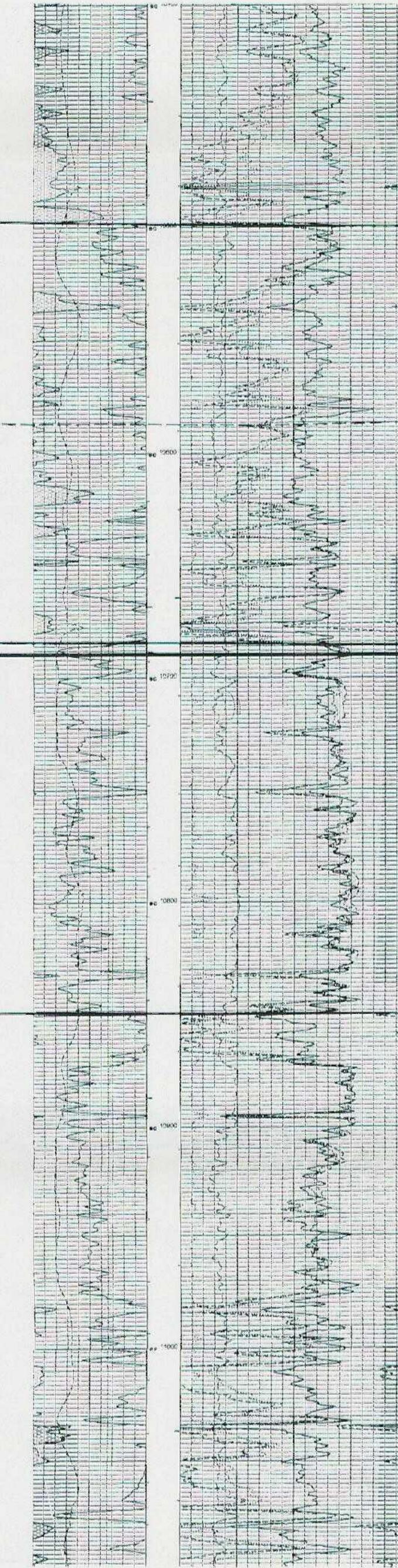


1

Mewbourne

#1 Fren '8' Federal Com
8D-18S-31E
TD 12,061'
KB 3689'

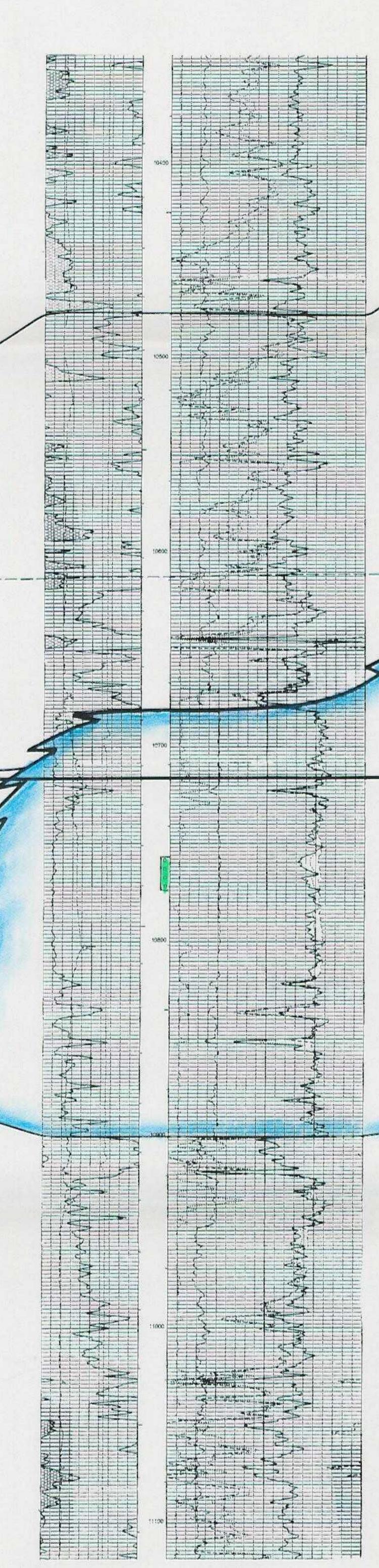


Stratigraphic Interval	Depth Range	Rock Type
Top	0 - 1000 ft	Sandstone
Middle	1000 - 2000 ft	Siltstone
Bottom	2000 - 3000 ft	Shale
Total	0 - 3000 ft	-

2

Heyco

#3 Parker Deep '5' Fed. Com
5N-18S-31E
TD 11,920'
KB 3716'

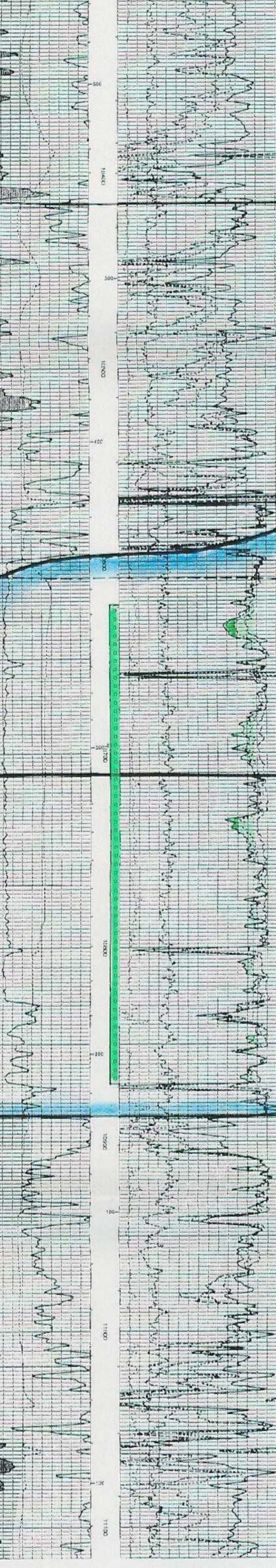


Stratigraphic Interval	Depth Range	Rock Type
Top	0 - 1000 ft	Sandstone
Middle	1000 - 2000 ft	Siltstone
Bottom	2000 - 3000 ft	Shale
Total	0 - 3000 ft	-

3

Mewbourne

#5 Fren '8' Federal Com
8C-18S-31E
TD 11,295'
KB 3710'

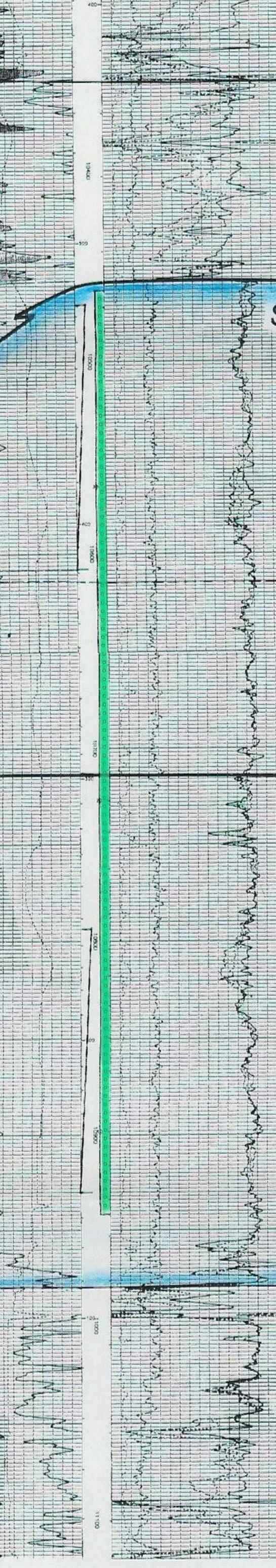


Stratigraphic Interval	Depth Range	Rock Type
Top	0 - 1000 ft	Sandstone
Middle	1000 - 2000 ft	Siltstone
Bottom	2000 - 3000 ft	Shale
Total	0 - 3000 ft	-

4

Mewbourne

#3 Fren '8' Federal Com
8G-18S-31E
TD 11,342'
KB 3713'

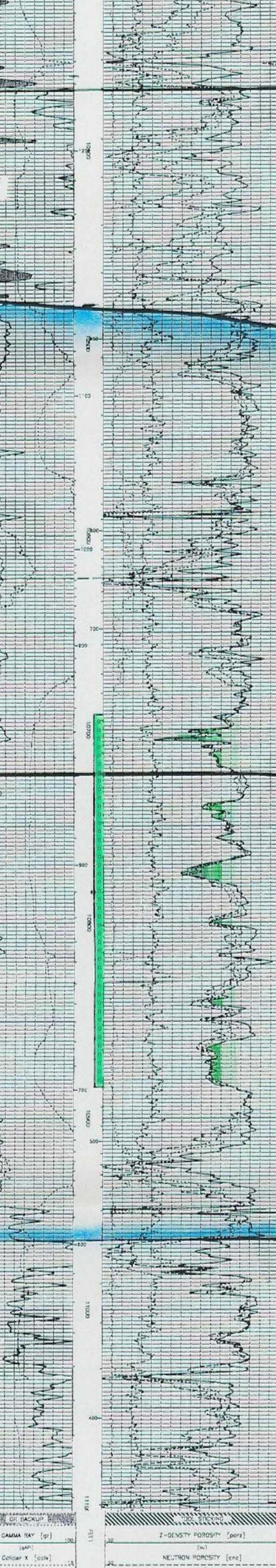


Stratigraphic Interval	Depth Range	Rock Type
Top	0 - 1000 ft	Sandstone
Middle	1000 - 2000 ft	Siltstone
Bottom	2000 - 3000 ft	Shale
Total	0 - 3000 ft	-

5

Mewbourne

#2 Fren '8' Federal Com
8A-18S-31E
TD 11,935'
KB 3724'

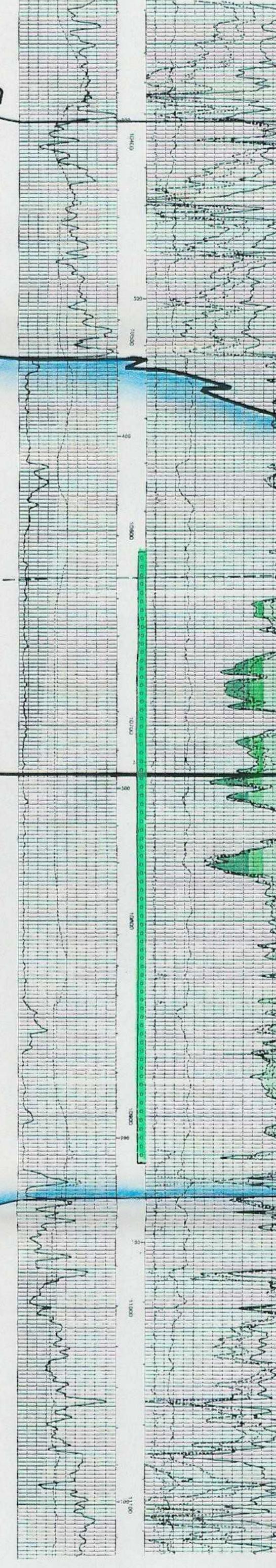


Stratigraphic Interval	Depth Range	Rock Type
Top	0 - 1000 ft	Sandstone
Middle	1000 - 2000 ft	Siltstone
Bottom	2000 - 3000 ft	Shale
Total	0 - 3000 ft	-

6

Mewbourne

#6 Fren '8' Federal Com
8D-18S-31E
TD 11,350'
KB 3726'

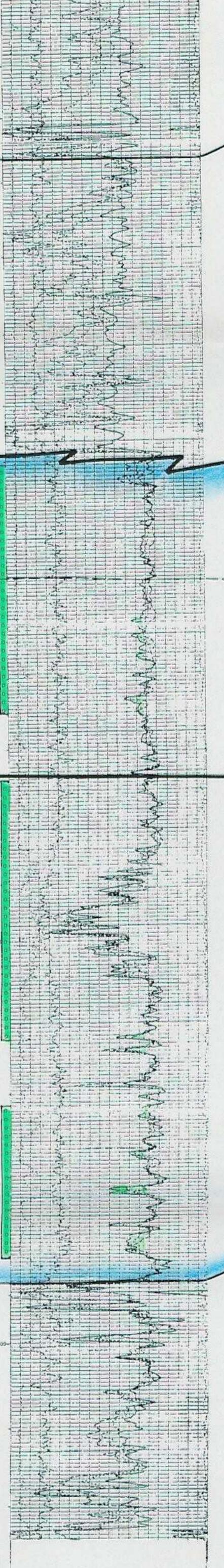


Stratigraphic Interval	Depth Range	Rock Type
Top	0 - 1000 ft	Sandstone
Middle	1000 - 2000 ft	Siltstone
Bottom	2000 - 3000 ft	Shale
Total	0 - 3000 ft	-

7

Gruy

#2 Magnum Federal '5' Com
5O-18S-31E
TD 11,945'
KB 3722'

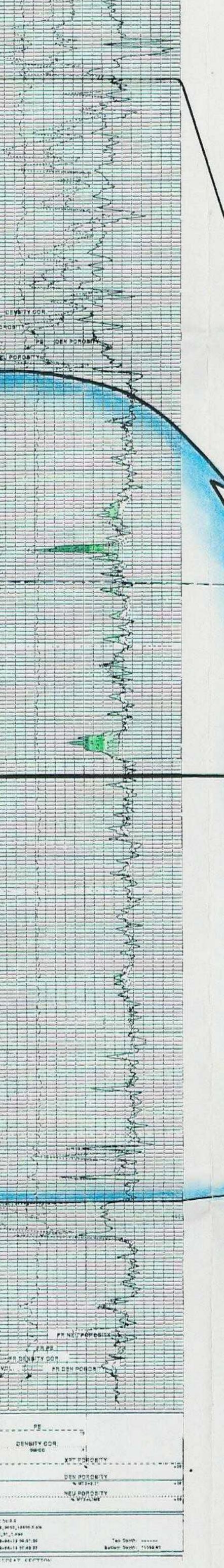


Stratigraphic Interval	Depth Range	Rock Type
Top	0 - 1000 ft	Sandstone
Middle	1000 - 2000 ft	Siltstone
Bottom	2000 - 3000 ft	Shale
Total	0 - 3000 ft	-

8

Gruy

#3 Magnum Federal '5' Com
5P-18S-31E
TD 11,100'
KB 3759'

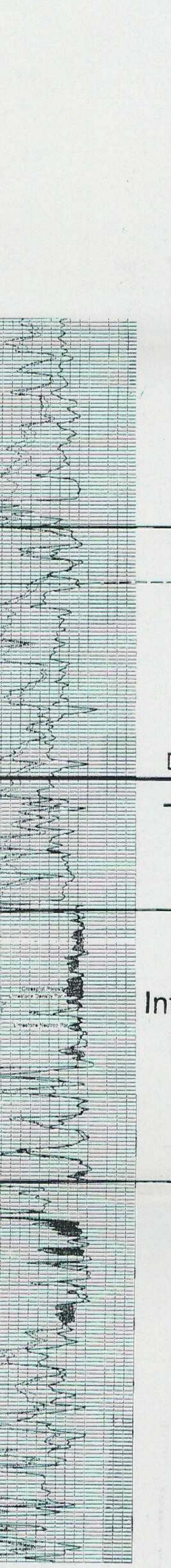


Stratigraphic Interval	Depth Range	Rock Type
Top	0 - 1000 ft	Sandstone
Middle	1000 - 2000 ft	Siltstone
Bottom	2000 - 3000 ft	Shale
Total	0 - 3000 ft	-

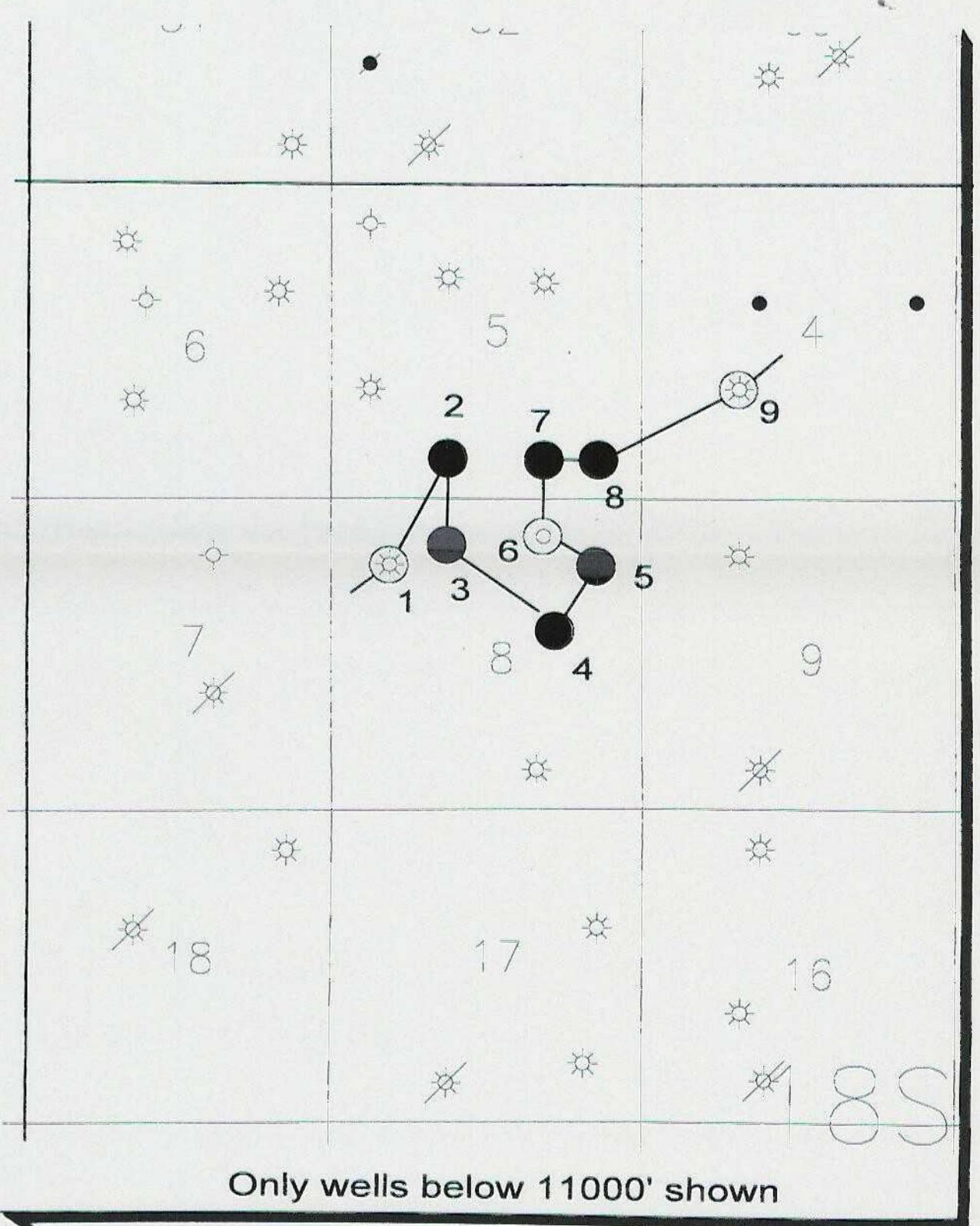
9

Anadarko

#1 Anadarko Federal
4K-18S-31E
TD 12,010'
KB 3738'



Stratigraphic Interval	Depth Range	Rock Type
Top	0 - 1000 ft	Sandstone
Middle	1000 - 2000 ft	Siltstone
Bottom	2000 - 3000 ft	Shale
Total	0 - 3000 ft	-



BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
EXHIBIT NO. 13
CASE NO.

MC NEWBOURNE OIL COMPANY
NEW MEXICO

SHUGART STRAWN POOL
STRUCTURE CROSS SECTION

EDDY CO. N.M.
BY RALPH NELSON DATE 11-12-03

Morrow
PF 11744-70, natural
F 3260 MCF + 38 BC + 4 BW 3/00
Cum: 1.69 BCF + 20 MBO 8/03

Strawn
PF 10757-774, A/20000
No potential filed
Cum: 4 MBO + 0.012 BCF 9/03

Strawn
PF 10622-870, A/20000
F 402 BO + 1265 MCF + 86 BW 11/02
Cum: 99 MBO + 0.46 BCF 9/03

Strawn
PF 10462-10942 (OA)
IPF 267 BO + 937 MCF, A/135,400 gal
Cum: 88 MBO + 0.33 BCF 9/03

Morrow
PF 11829-846, natural
IPF 114 MCFD PB 11787
Cum: 0.13 BCF + 3 MBO 9/02

Strawn
PF 11686-718, natural
Cum: 0.13 BCF + 3 MBO 9/02

Strawn
PF 11600
Testing

Strawn
PF 10510-924, natural
Cum: 0.21 BCF + 3 MBO 10/02

Strawn
PF 10562-970, A/9600 gal.
IPF 954 BOPD + 3692 MCF Cum: 49 MBO + 0.27 BCF 8/03

Morrow
PF 11728-86, natural
IPF 829 MCFD 4/01
Cum: 0.20 BCF + 1 MBO 4/03