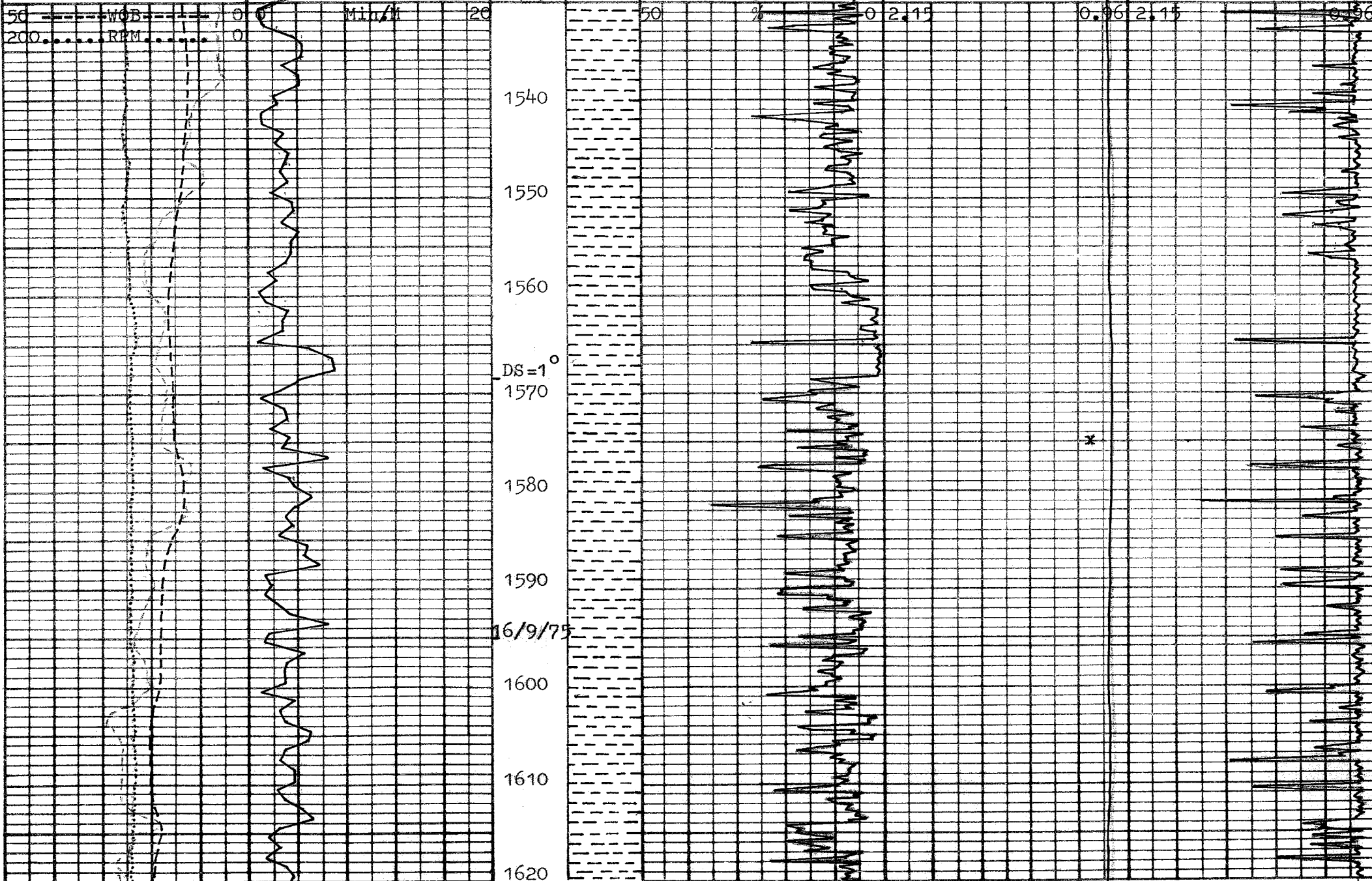


ENGINEERING DATA

AThe Analysts
North Sea**IDEL**UNIT MGR D. RACHERCOMPANY NORSK HYDRO A/SWELL 30/7-2AREA OFFSHORE NORWAY

--- Weight of bit ---
50 1000 lbs
• • • Rotary Speed • • •
280 RPM

Min/M DRILLING RATE M/Hr

DEPTH
(M)Lith
SymbolPOROSITY
%PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x**'A'** EXPONENT
PPG - SP (Equiv.)

ENGINEERING DATA



The Analysts
North Sea

IDEL

UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S

WELL 30/7-2

AREA OFFSHORE NORWAY

--- Weight of bit ---
50 1000 lbs 0
• • • Rotary Speed • • •
200 RPM 0

Min/M DRILLING RATE M/Hr
☒ ☐

DEPTH
(M)

Lith
Symbol

POROSITY
%

PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

50 --- WOB --- 0
200 --- REM --- 0

MEAN SEA LEVEL @ 22.9 m.

Min/M

20

RKB

50

%

0

2.15

0.96

2.15

0.96

10

20

30

40

50

60

70

80

90

ENGINEERING DATA

AThe Analysts
North Sea**IDEL**UNIT MGR D. RACHERCOMPANY NORSK HYDRO A/SWELL 30/7-2AREA OFFSHORE NORWAY

--- Weight of bit ---
50 1000 lbs 0
• • • Rotary Speed • • •
200 RPM 0

Min/M DRILLING RATE M/Hr
☒ ☐DEPTH
(M)Lith
SymbolPOROSITY
%PORE PRESSURE
P.P.G.-SG- (Equiv.)
Actual mud wt - x**A** EXPONENT
PPG-SP (Equiv.)

50 --- WOB --- 0
200 --- RPM --- 0

WELLHEAD AT 131.72 m.

100

110

120

130

140

150

160

170

180

50 0 2.15 0.96 2.15 0.96

ENGINEERING DATA

AThe Analysts
North Sea**IDEL**UNIT MGR D. RACHERCOMPANY NORSK HYDRO A/SWELL 3077-2AREA OFFSHORE NORWAY

--- Weight of bit ---
50 1000 lbs 0
• • • Rotary Speed • • •
200 RPM 0

Min/M DRILLING RATE M/Hr
☒ 0 ☐DEPTH
(M)Lith
SymbolPOROSITY
%PORE PRESSURE
P.P.G. - SG. (Equiv.)
Actual mud wt - x'A' EXPONENT
PPG - SP (Equiv.)

50 WOB 0 0
200 RPM 0

30" CASING SHOE AT 198.25 m.

NE # 2 REED 11 1/2" / 1 7/8"
IN AT 208 m.

14/8/75

CEMENT

****DUE TO THE LACK OF FORMATION RESISTANCE AND THE AMOUNT OF CONTROLLED DRILLING, THE ROP, 'A' EXPONENT AND POROSITY CURVES ARE NOT REPRESENTATIVE OF THE FORMATION RESPONSE, AND ANY INTERPRETATION SHOULD THEREFORE BE MADE WITH CAUTION. THIS APPLIES UNTIL FORMATION RESISTANCE IS ENCOUNTERED.

'A' EXPONENT
PPG-SP (Equiv.)

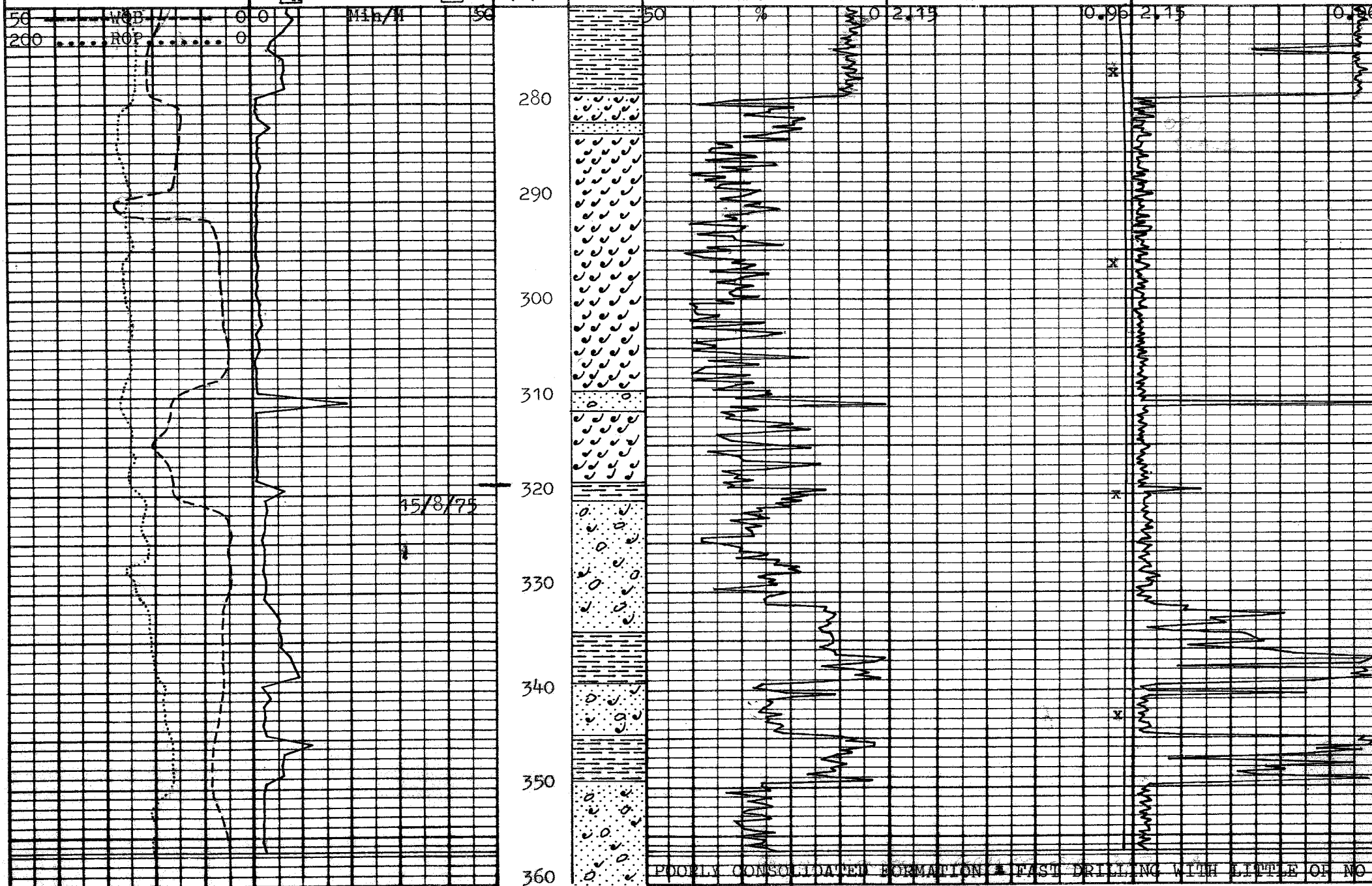
[illegible]

Lith Symbol

POROSITY

<u>PORE</u>	<u>PRESSURE</u>
P.P.G.—	S.G.— (Equiv.)
Actual mud wt — x	

'A' EXPONENT
PPG-SP (Equiv.)



ENGINEERING DATA

The Analysts
North Sea

IDEL

UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S

WELL 30/7-2

AREA OFFSHORE NORWAY

--- Weight of bit ---
50 1000 lbs 0
• • • Rotary Speed • • •
200 RPM 0

Min/M DRILLING RATE M/Hr

DEPTH
(M)Lith
SymbolPOROSITY
%

PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

50 WOB 0 0 Min/M 20

200 RPM 0

DEPTH CORRECTION

DEPTH CORRECTION

DEPTH CORRECTION

370

380

390

400

410

420

430

440

450

50 % 0 2.15 0.96 2.15 0.96

WEIGHT ON BIT - NO FORMATION RESPONSE - NO PRINTOUT

DEPTH WHEEL INOPERATIVE, NO DATA COLLECTED DURING REPAIRS.

ENGINEERING DATA



The Analysts
North Sea

IDEL

UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S

WELL 30/7-2

AREA OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

WOB 1000
RPM 200

ROP CONTROLLED TO
AVERAGE 4444/M
CONDITIONING MUD.

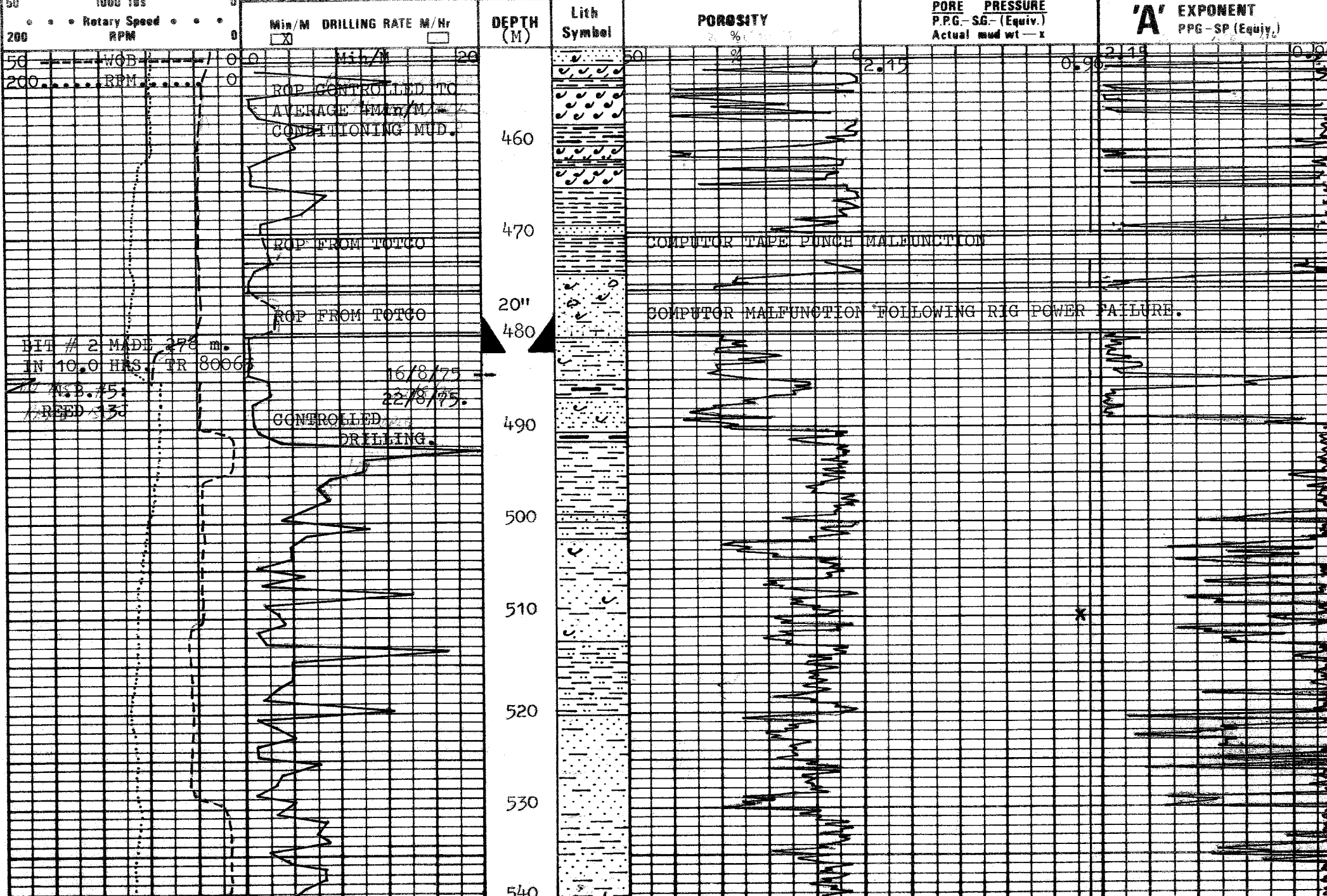
ROP FROM TOTCO

ROP FROM TOTCO

BIT # 2 MADE 278 m.
IN 10.0 HRS. TR 80066

W.B. 45
R.P.D. 330

16/8/75
22/8/75
CONTROLLED
DRILLING.



DEPTH
(M)

Lith
Symbol

POROSITY

PORE PRESSURE
P.P.G.-SG-(Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG-SP (Equiv.)

COMPUTER TAPE PINCH MALFUNCTION

COMPUTER MALFUNCTION FOLLOWING RIG POWER FAILURE.

ENGINEERING DATA

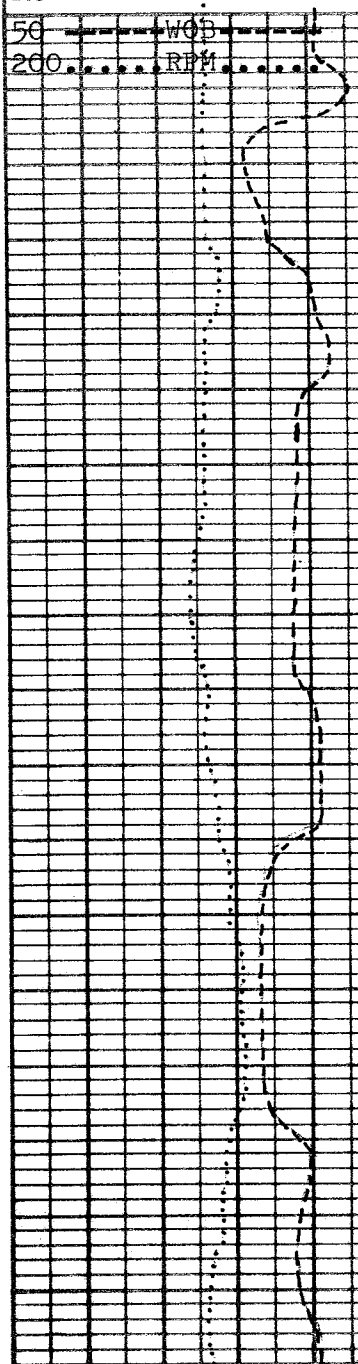


The Analysts
North Sea

IDEL
UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S
WELL 3077-2
AREA OFFSHORE NORWAY

Weight of bit
1000 lbs
Rotary Speed
RPM



Min/M DRILLING RATE M/Hr
Min/M

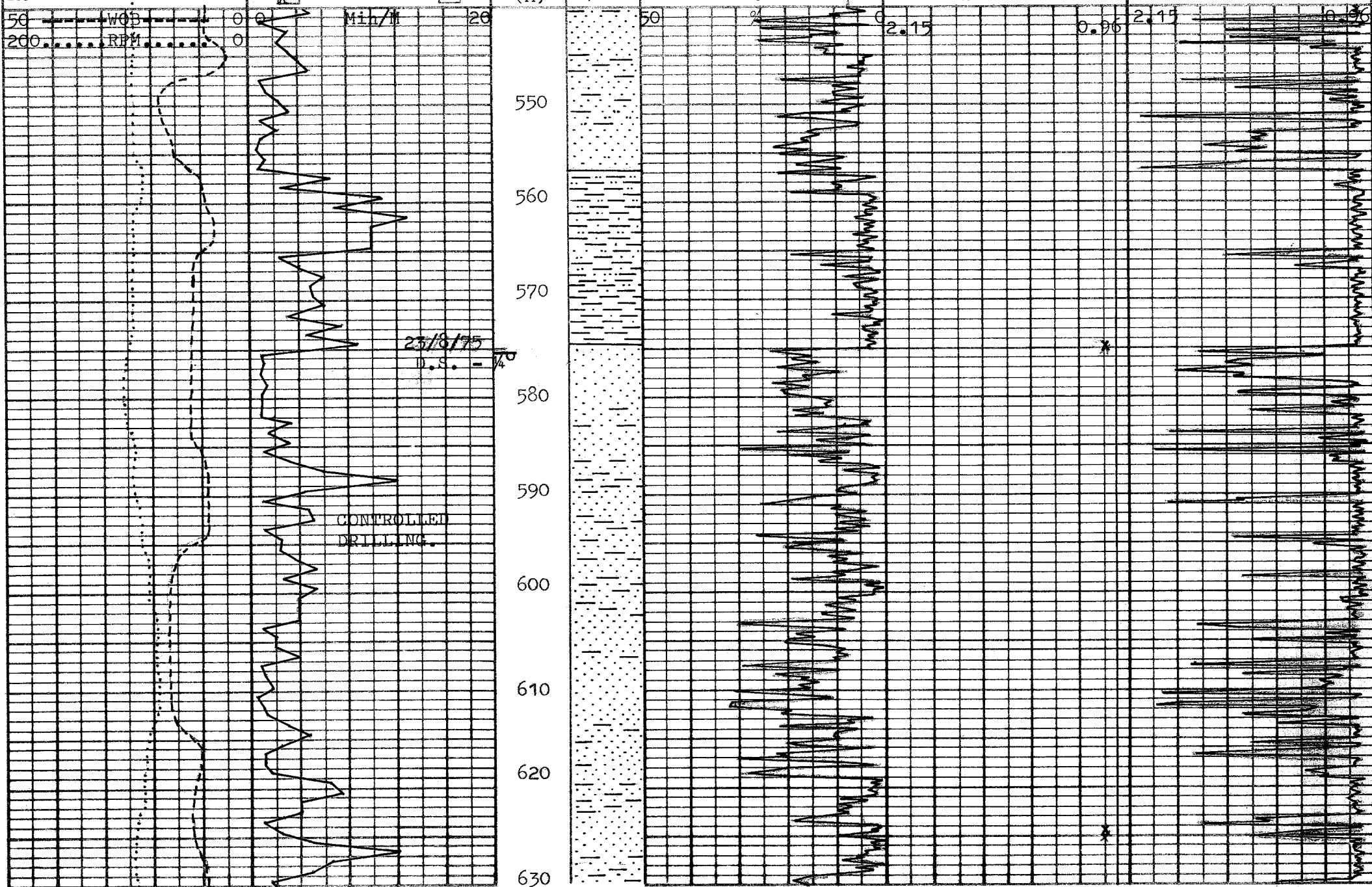
DEPTH (M)

Lith
Symbol

POROSITY
%

PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)



ENGINEERING DATA



The Analysts
North Sea

IDEL

UNIT MGR D. RACHER.

COMPANY NORSK HYDRO A/s

WELL 30/7-2

AREA OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

50
200

Min/M DRILLING RATE M/Hr

Min/M

DEPTH (M)

Lith Symbol

POROSITY %

PORE PRESSURE
PPG - SG (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

50
200

BIT#5 MADE 182m IN
435 hrs.
NE#6 REELS 13J

CONTROLLED
DRILLING

24/8/75

640

650

660

670

680

690

700

710

720

Lith Symbol

POROSITY %

PORE PRESSURE
PPG - SG (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

ENGINEERING DATA



The Analysts
North Sea

IDEL
UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S
WELL 30/7-2
AREA OFFSHORE NORWAY

Weight of bit 1000 lbs

Rotary Speed RPM

WOB RPM

Min/M DRILLING RATE M/H

Min/M

DEPTH (M)

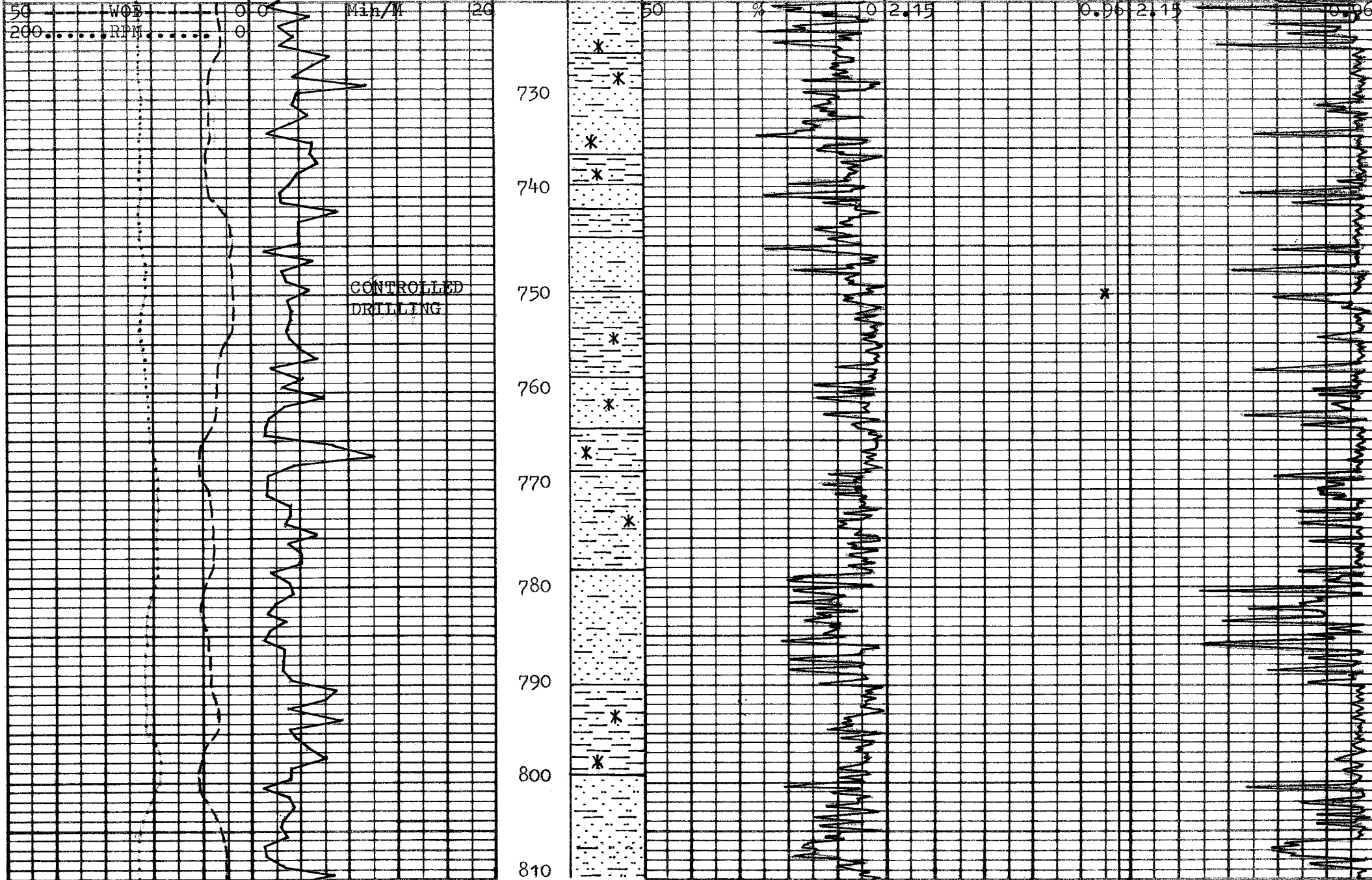
Lith Symbol

POROSITY %

PORE PRESSURE
P.P.G. - SG. (Equiv.)
Actual mud wt - x

"A" EXPONENT
PPG - SP (Equiv.)

CONTROLLED
DRILLING



ENGINEERING DATA



The Analysts
North Sea

IDEL

UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S

WELL 30/7-2

AREA OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

Min/M DRILLING RATE M/Hr

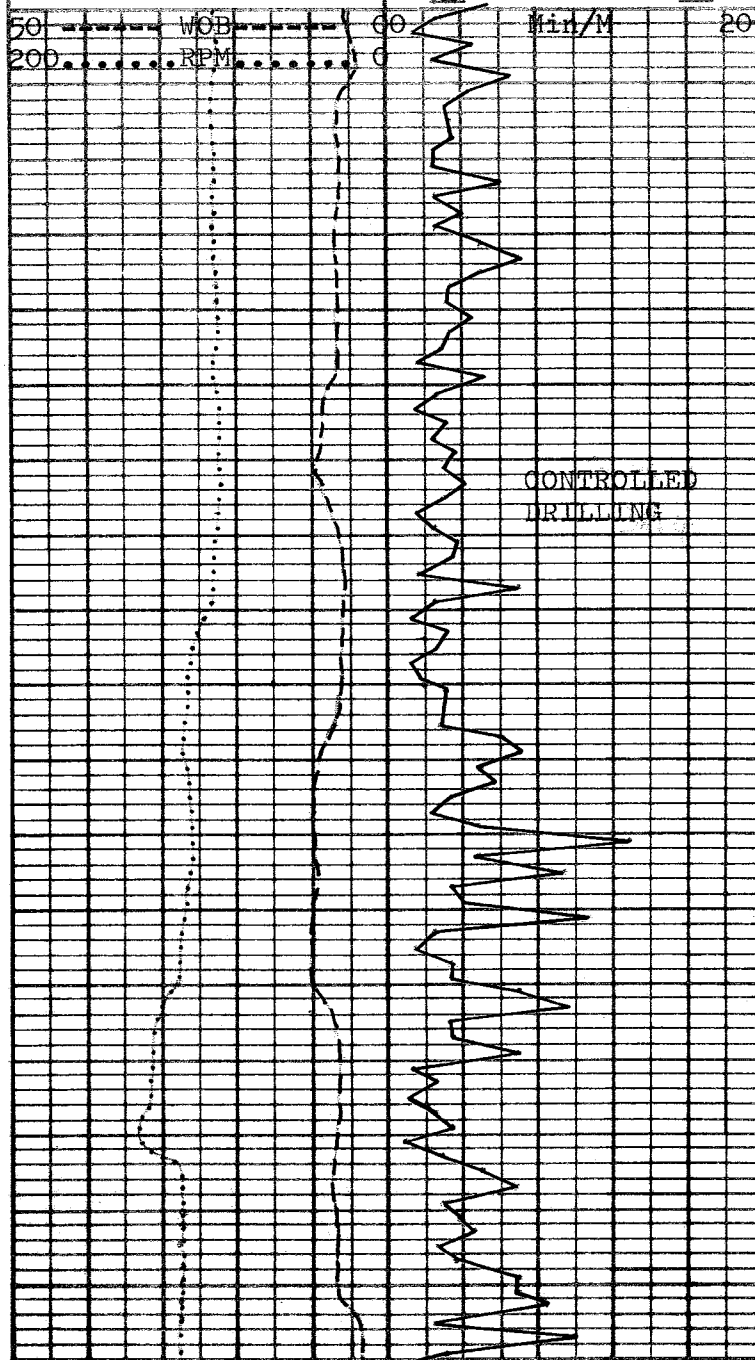
DEPTH (M)

Lith Symbol

POROSITY %

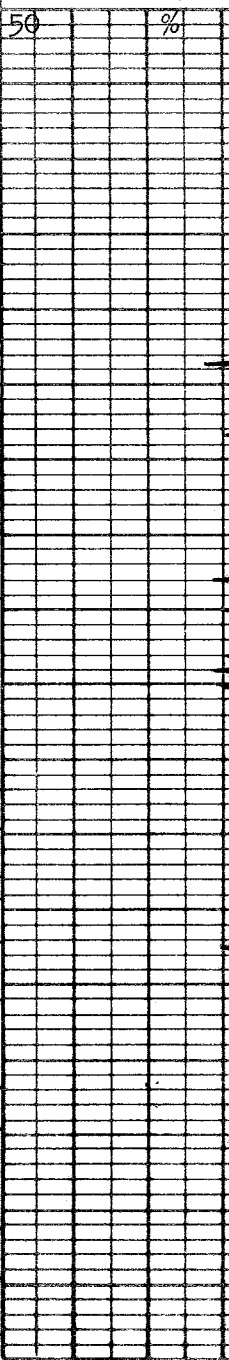
PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)



820
830
840
850
860
870
880
890
900

Lith Symbol



2.15

0.96

2.15

'A' EXPONENT
PPG - SP (Equiv.)

Lith Symbol

ENGINEERING DATA



The Analysts
North Sea

IDEL

UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S

WELL 3077-2

AREA OFFSHORE NORWAY

Weight of bit 1000 lb.
Retary Speed RPM

WOB
RPM

DRILLING RATE M/Hr

Min/M

DEPTH (M)

Lith
Symbol

POROSITY
%

PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

50
200

0 6

20

50

%

0 2.15

0.96

2.15

50 6

CONTROLLED
DRILLING

25/8/15

910

920

930

940

950

960

970

980

990

ENGINEERING DATA



The Analysts
North Sea

IDEL

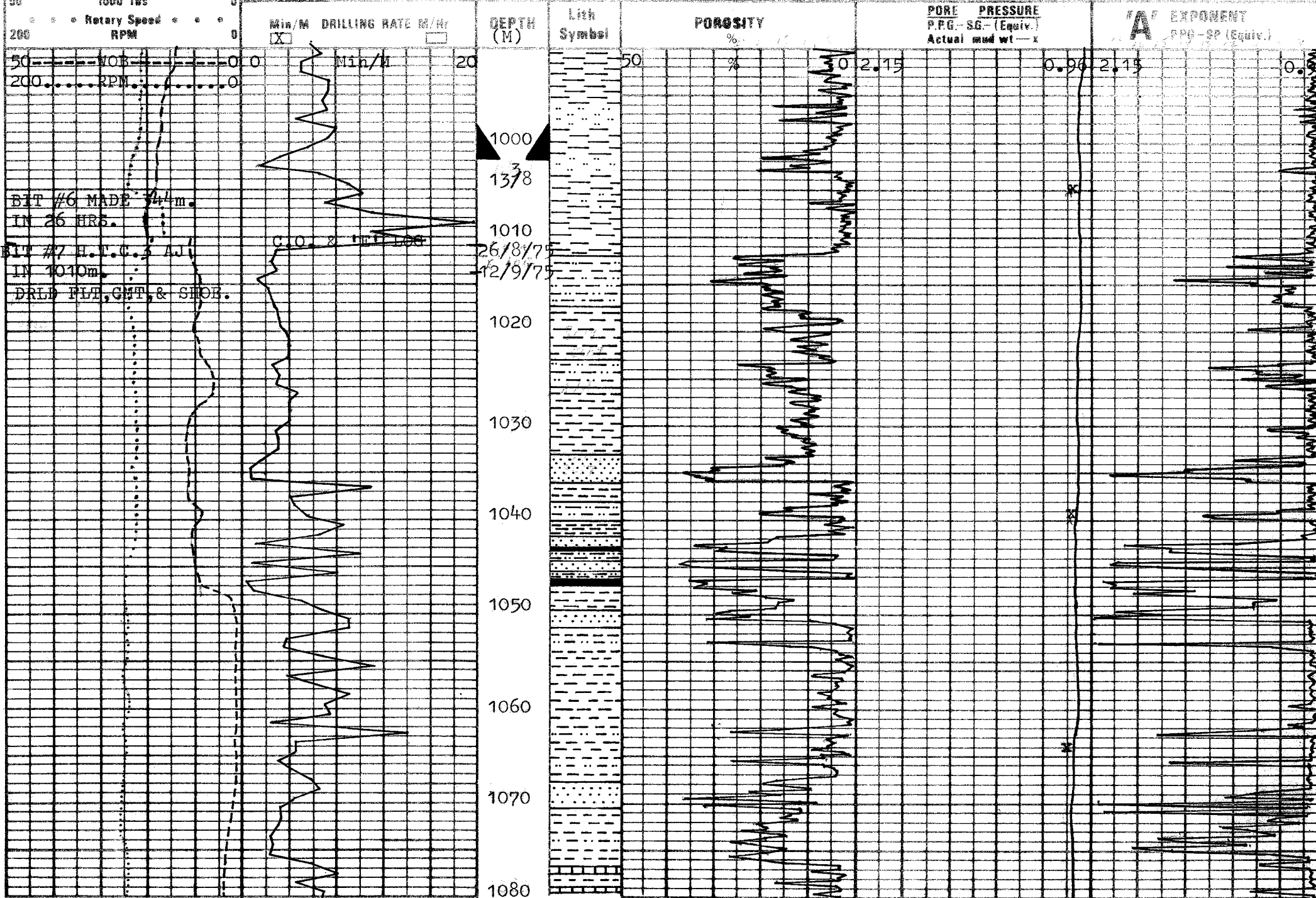
UNIT MGR D.RACHER.

COMPANY NORSK HYDRO A/s
WELL 30/7-2
AREA OFFSHORE NORWAY

Weight of bit --- 1000 lbs
Rotary Speed --- RPM

50 --- NOB --- 0
200 --- RPM --- 0

BIT #6 MADE 344m.
IN 26 HRS.
BIT #7 H.T.C. 3 AJ
IN 1010m.
DRILL FLT, GMT, & SHOE.



ENGINEERING DATA



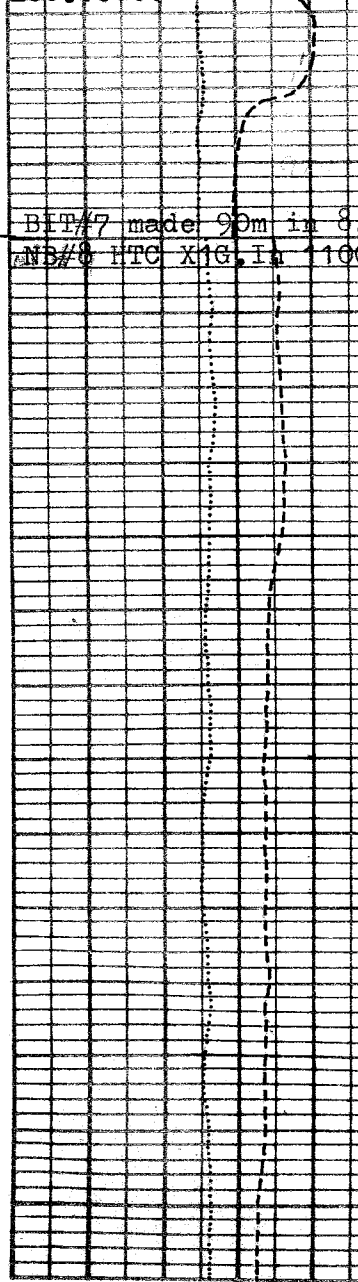
The Analysts
North Sea

IDEL
UNIT MGR D.RACHER.

COMPANY NORSK HYDRO A/s
WELL 3077-2
AREA OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

WOB 7
RPM 15



BIT #7 made 90m in 8.5 hrs.
ND #8 HTC X1G. In 1100m.

Min/M DRILLING RATE M/Hr

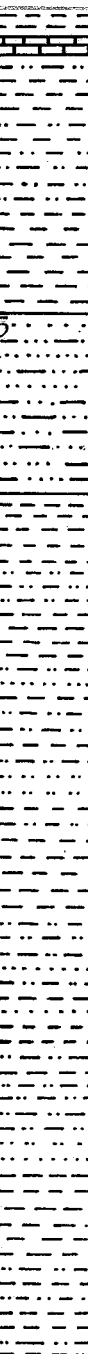
Min/M



DEPTH (M)

1090
1100
1110
1120
1130
1140
1150
1160
1170

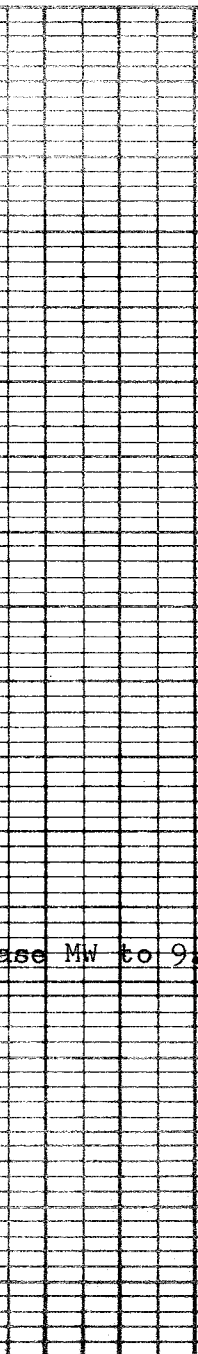
Lith Symbol



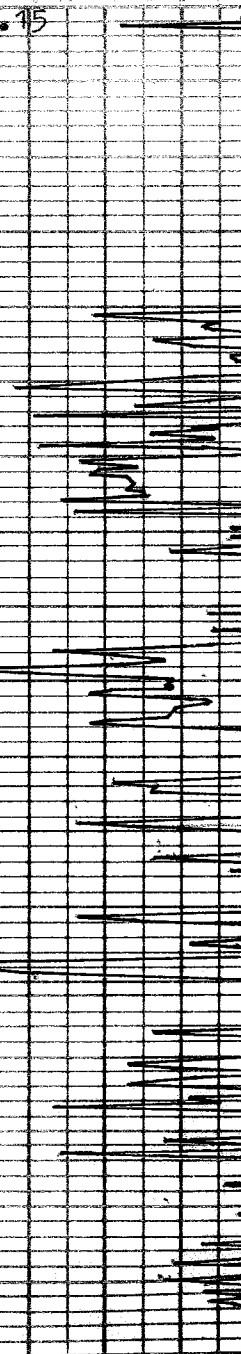
POROSITY



PORE PRESSURE
P.P.G. - SG. (Equiv.)
Actual mud wt - x



'A' EXPONENT
PPG - SP (Equiv.)



Increase Mw to 9.5

ENGINEERING DATA

A

The Analysts North Sea

IDEL

UNIT MGR D. RACHER.

COMPANY NORSK HYDRO A/s

WELL 30/7-2

AREA OFFSHORE NORWAY

PORE PRESSURE
PPG - SG: (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

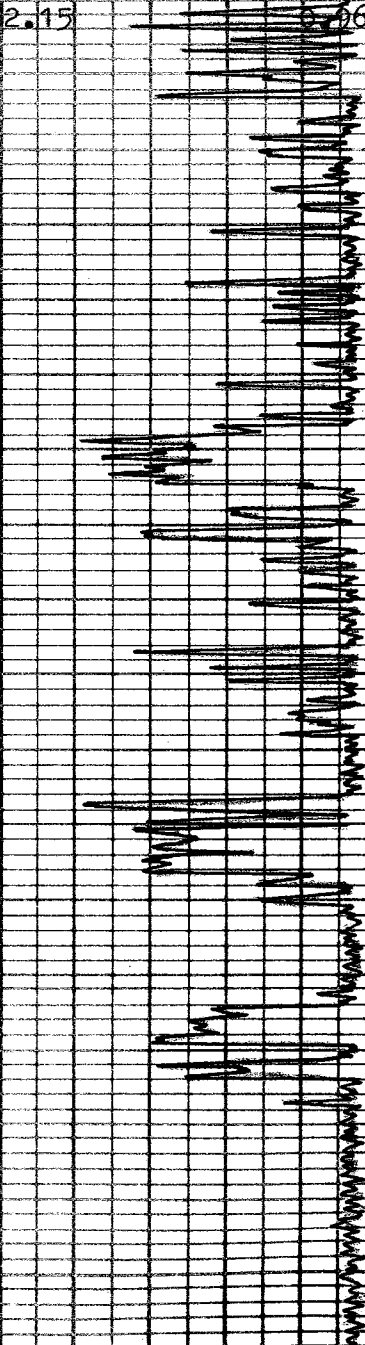
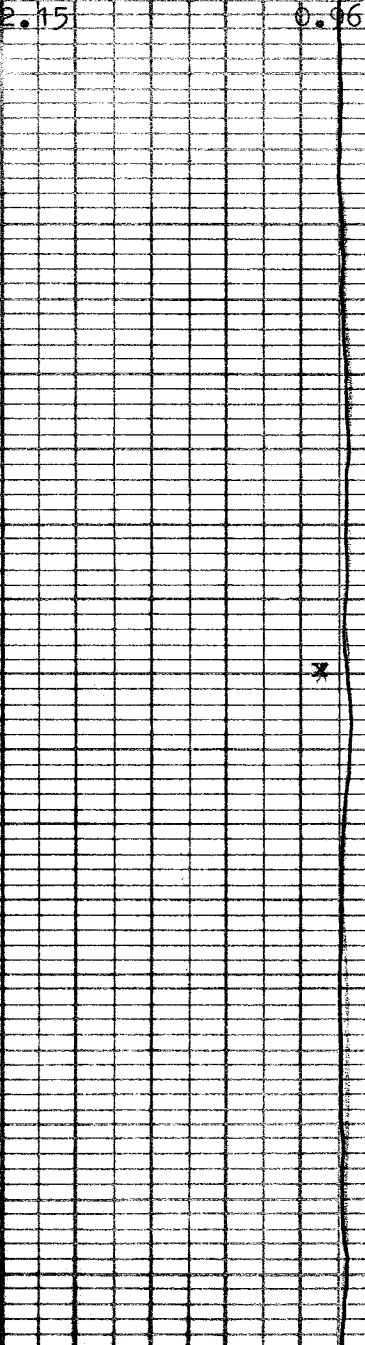
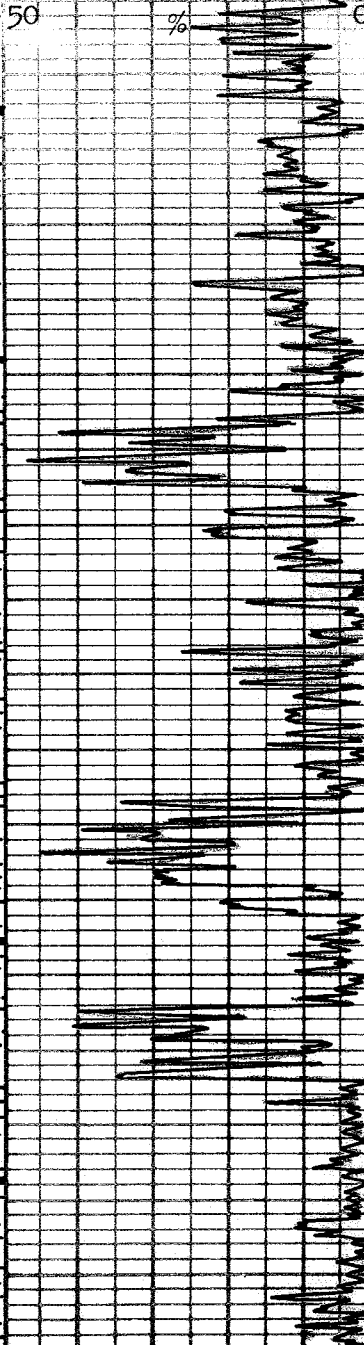
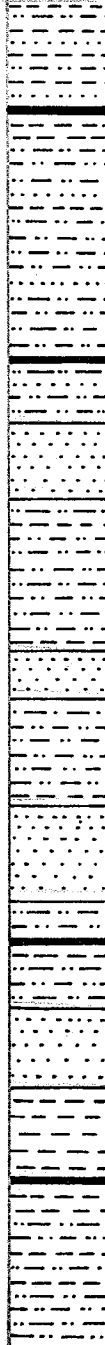
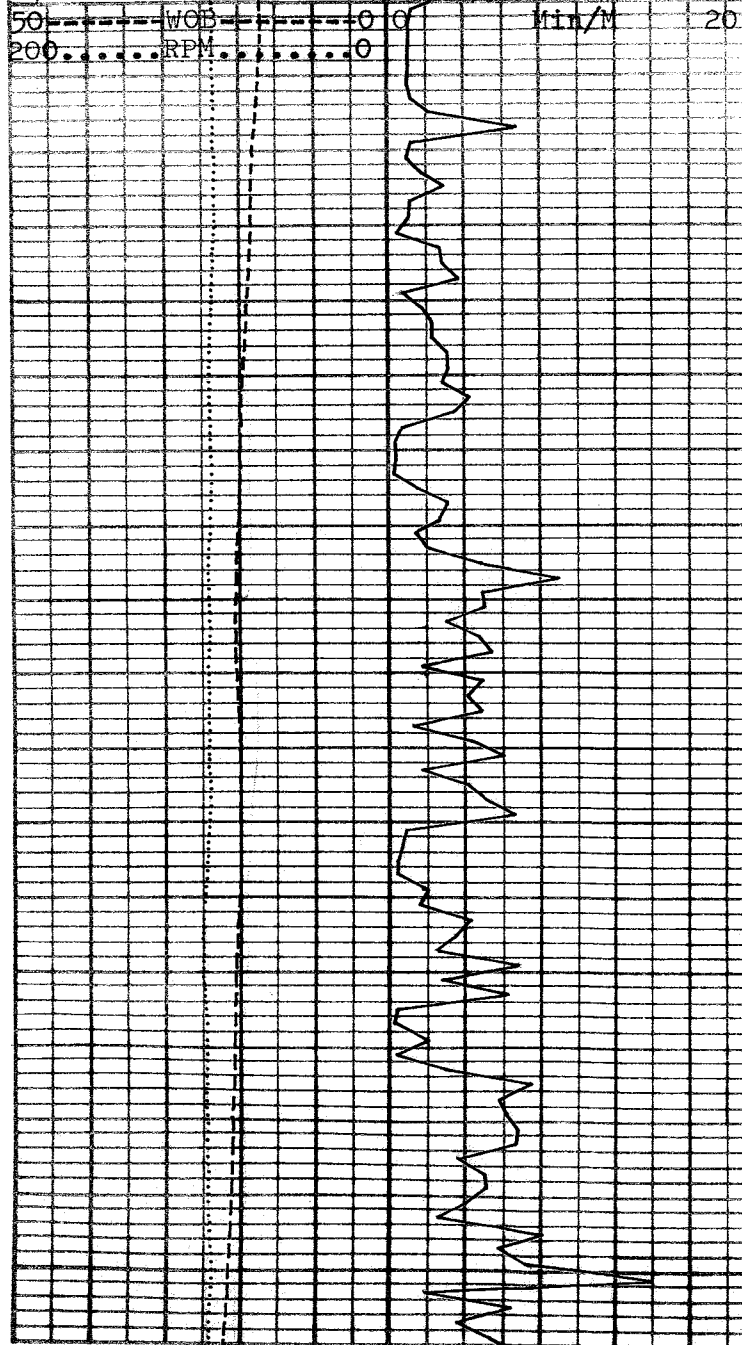
Weight of bit 1000 lbs
Retary Speed RPM

Min/M DRILLING RATE M/Hr
Min/M

DEPTH (M)

Lith Symbol

POROSITY %

WOB RPM
RPM


ENGINEERING DATA



The Analysts
North Sea

IDEL
UNIT MGR D. RACHER.

COMPANY NORSK HYDRO A/s
WELL 30/7-2
AREA OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

WOB
RPM

Min/M DRILLING RATE W/Hr
Min/M

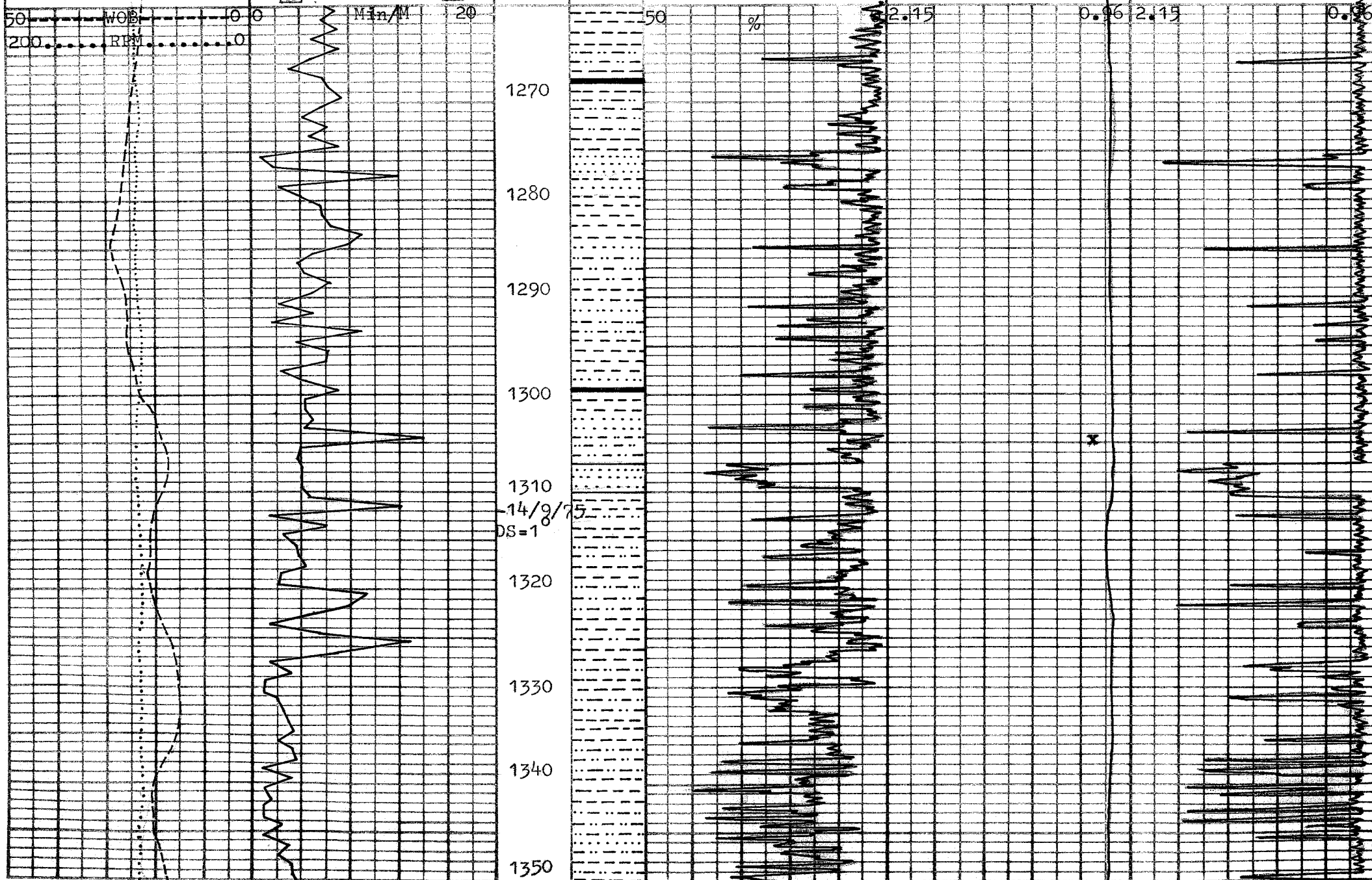
DEPTH
(M)

Lith
Symbol

POROSITY
%

PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)



ENGINEERING DATA



The Analysts
North Sea

IDEL
UNIT MGR D. RACHER.

COMPANY NORSK HYDRO A/s
WELL 30/7-2
AREA OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

Min/M DRILLING RATE M/Hr

DEPTH (M)

Lith Symbol

POROSITY

PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

50 WOB
200 RPM

Min/M

20

50

2.15

0.96 2.15

BIT#8 made 289m in 15.9hrs
ME#9 HTC X16 in 1389m

DS=1°

15/9/75

1390

1400

1410

1420

1430

1440

ENGINEERING DATA



The Analysts
North Sea

IDEL
UNIT MGR D. RACHER.

COMPANY NORSK HYDRO A/s.
WELL 30/7-2
AREA OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

Min/M DRILLING RATE M/Hr

DEPTH (M)

Lith Symbol

POROSITY

PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - z

'A' EXPONENT
PPG - SP (Equiv.)

WOB
RPM

Min/M

20

50

%

2.15

0.96 2.15

0.98

1450

1460

1470

1480

1490

1500

1510

1520

1530

x

ENGINEERING DATA

A

The Analysts North Sea

IDEL

D. RACHER.

UNIT MGR

COMPANY

NORSK HYDRO A/s

WELL

30/7-2 a

AREA

OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

Min/M DRILLING RATE M/Hr

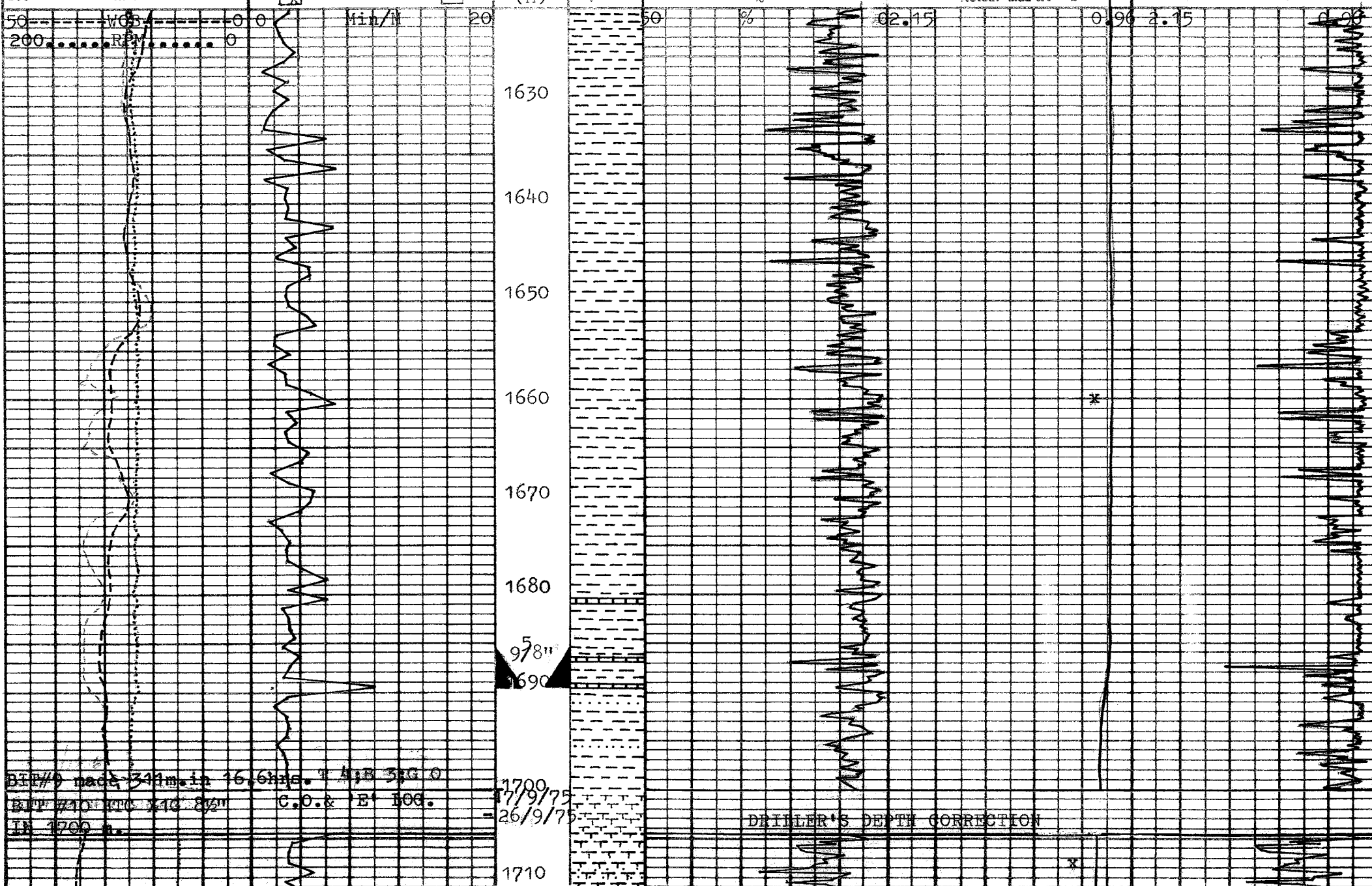
DEPTH (M)

Lith Symbol

POROSITY %

PORE PRESSURE P.P.G. - SG. (Equiv.) Actual mud wt - x

'A' EXPONENT PPG-SP (Equiv.)



BIP#0 made 341m. in 16.6hrs. T A; B 3; G 0
BIP #10 etc 340 8 1/2" C.O. & E 100.
IN 1700 m.

ENGINEERING DATA

The Analysts
North Sea

IDEL

RACHER.

UNIT MGR

COMPANY

NORSK HYDRO A/s

WELL

3077-2A

AREA

OFFSHORE NORWAY

Weight of Bit 1000 lbs
Rotary Speed 200 RPM

Min/M DRILLING RATE M/Hr

DEPTH

Lith
Symbol

POROSITY

%

PORE PRESSURE

PPG - SG - (Equiv.)

Actual mud wt - x

'A' EXPONENT

PPG - SP (Equiv.)

WOB
RPM

Min/M

20

50 %

0 2.15

0.96 2.15

0.96

1720

1730

1740

1750

1760

1770

1780

1790

1800

BIT #10 made 50 m. in 5.9 hrs.

T.R. 15139 T 8 B 4:30

BIT #11 CHRISTENSEN ROP SCALE CHANGE

C22 C.B. from 17534. 48 192

CORE #1 Min/M

Recovery 94.4%

CORE #2 (RECB#1)

Recovery 100%

DRILLING ON JUNK
ROP QUESTIONABLE

CORE #3 (RECB#1)

Recovery 100%

CORE #4 (RECB#1)

Recovery 81.5%

DRILLER'S DEPTH CORRECTION

MUD WT - x

ENGINEERING DATA



The Analysts
North Sea

IDEL

UNIT MGR RACHER

COMPANY NORSK HYDRO A/s
WELL 30/7-2A
AREA OFFSHORE NORWAY

PORE PRESSURE
PPG - SG. (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

Weight of bit 1000 lbs
Rotary Speed RPM

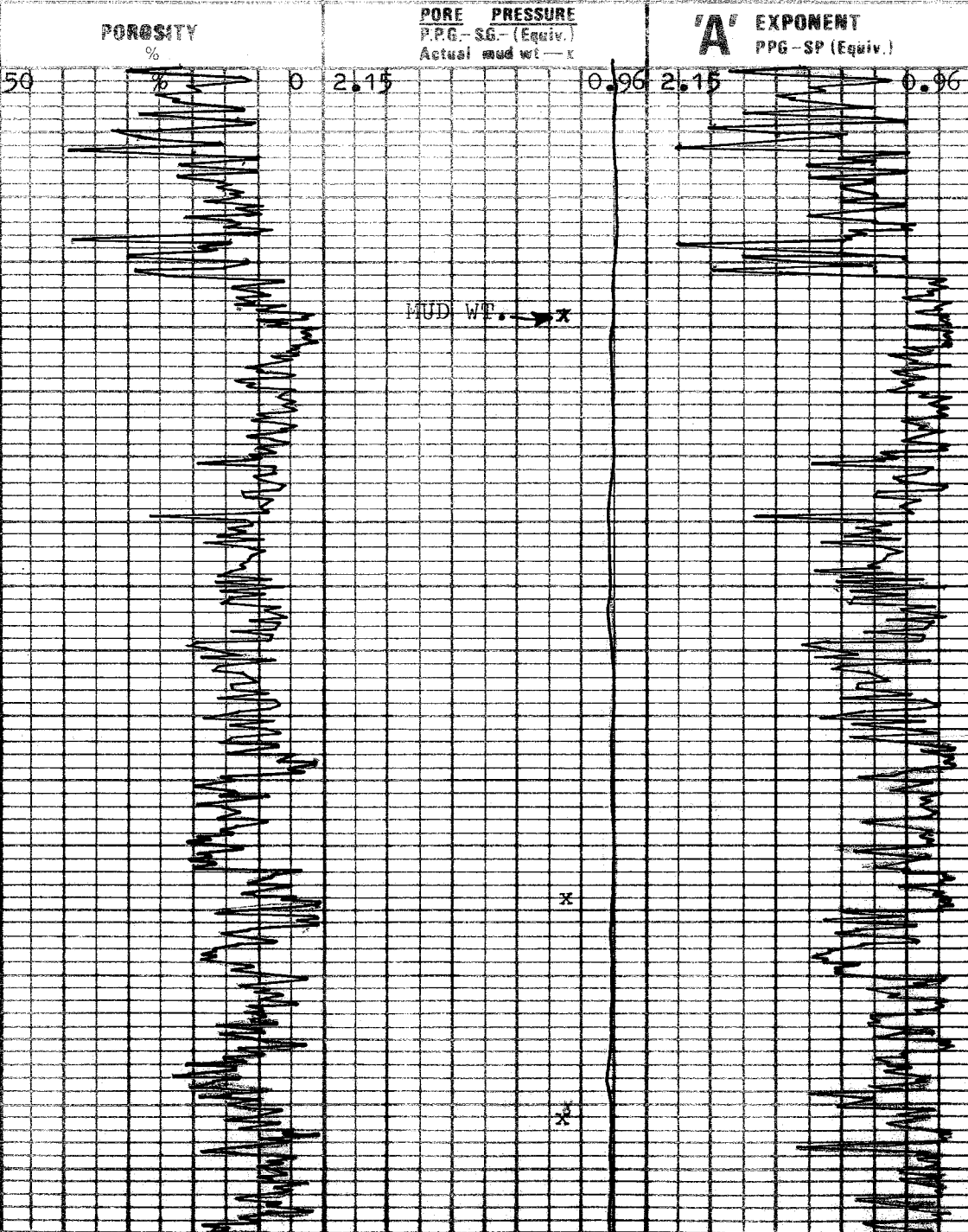
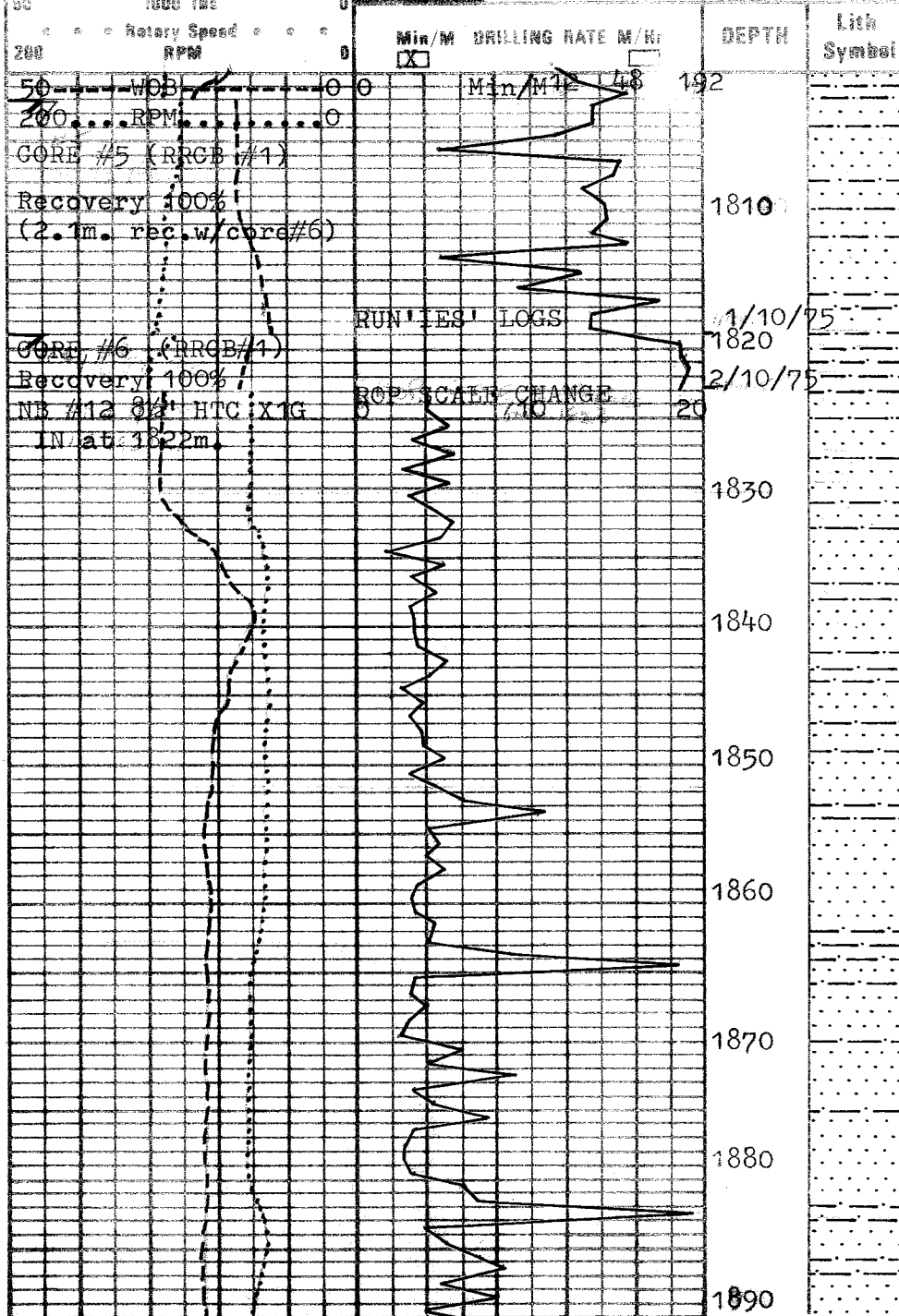
50 WOB
200 RPM

CORE #5 (RRGB #1)
Recovery 100%
(2.1m. rec.w/core#6)

CORE #6 (RRGB #1)
Recovery 100%
NB #12 3/4" HTC X1G
IN at 1822m.

RUN 'IES' LOGS

ROP SCALE CHANGE



ENGINEERING DATA



The Analysts
North Sea

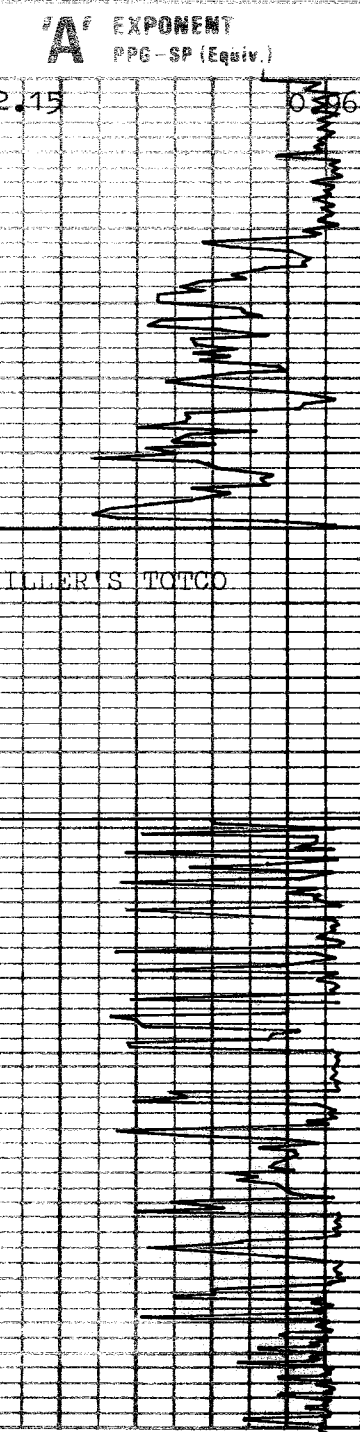
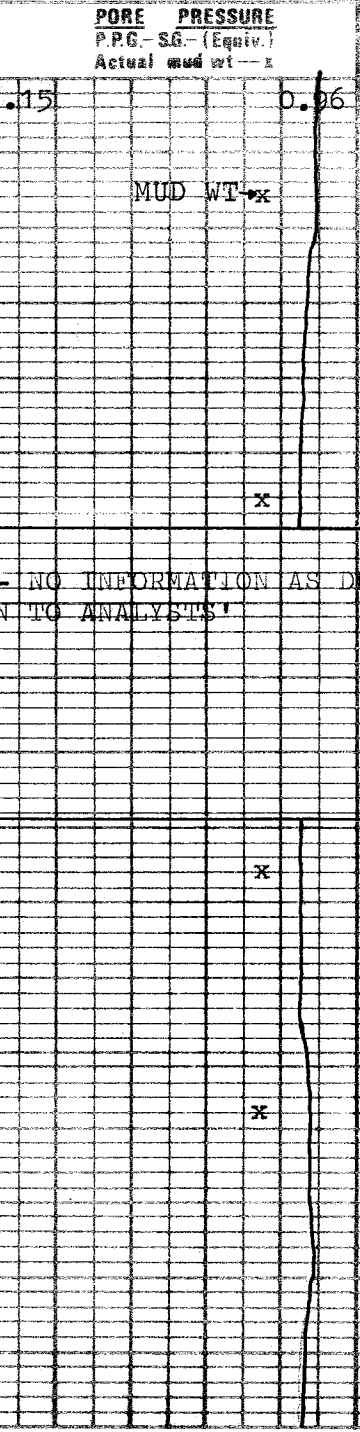
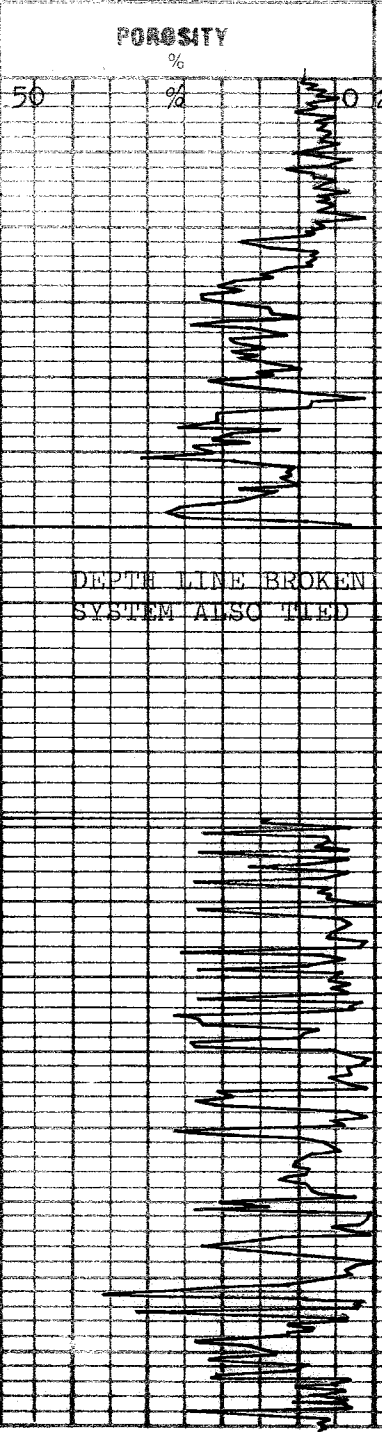
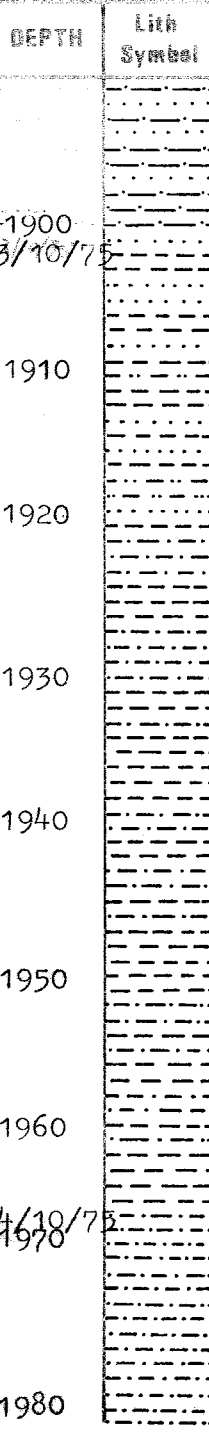
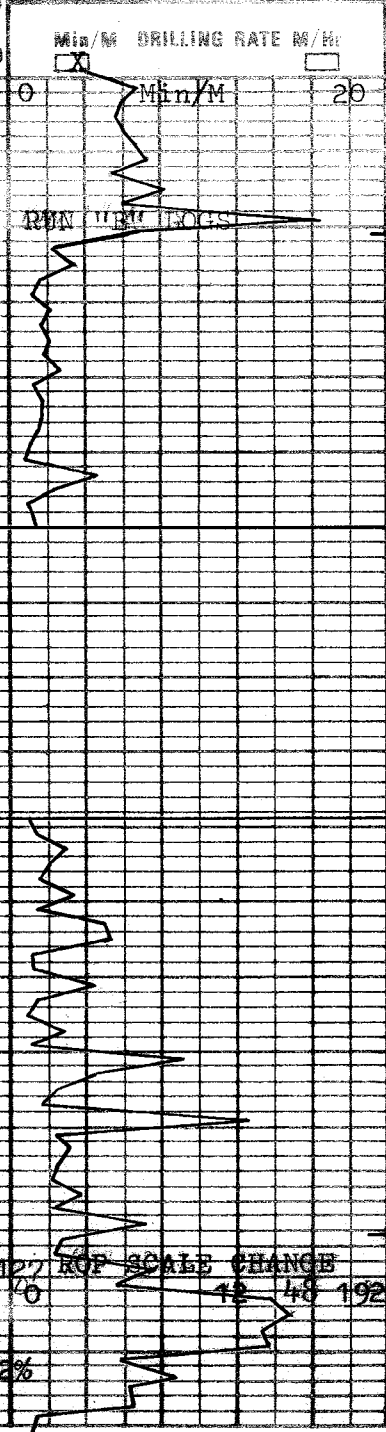
UNIT MGR **IDEL**
RACHER

COMPANY **NORSK HYDRO A/s**
WELL **30/7-2A**
AREA **OFFSHORE NORWAY**

Weight of bit 1000 lbs.
Rotary Speed RPM
50 200

WOB 0
RPM 0
BIT #12 made 78m. in
6.0hrs. F 4; B 6; G 0
EB 22477
NB #13 8 1/2" BTC X1G
IN AT 1900 m.

BIT #13 made 20m. in
3.6hrs. EB 15422 ROP SCALE CHANGE
NB #14 CHRISTENSEN
C18 + CBI #1 PERUN
CORE #7 Recovery 90.2%



DEPTH LINE BROKEN - NO INFORMATION AS DRILLER'S TOTCO
SYSTEM ALSO TIED IN TO ANALYSTS

ENGINEERING DATA



The Analysts
North Sea

IDEAL

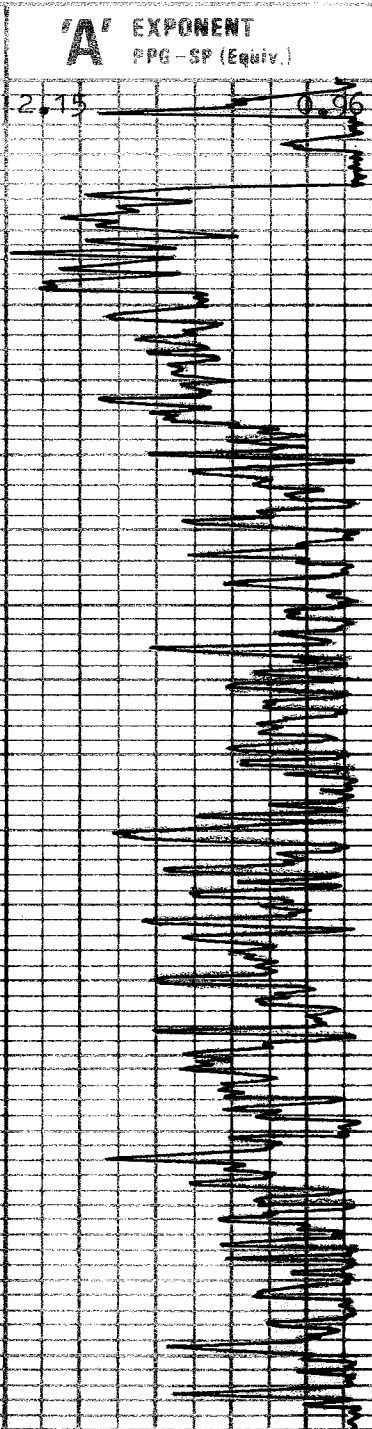
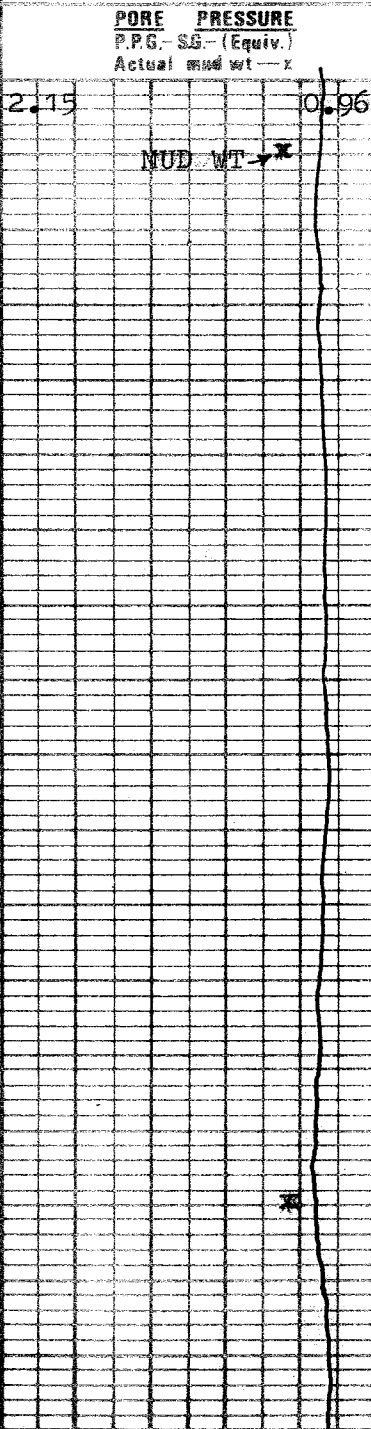
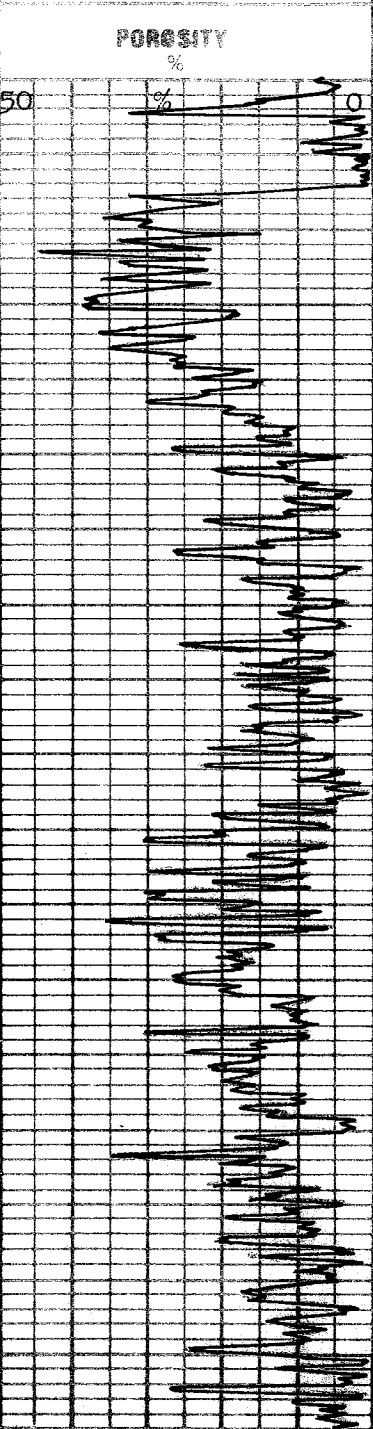
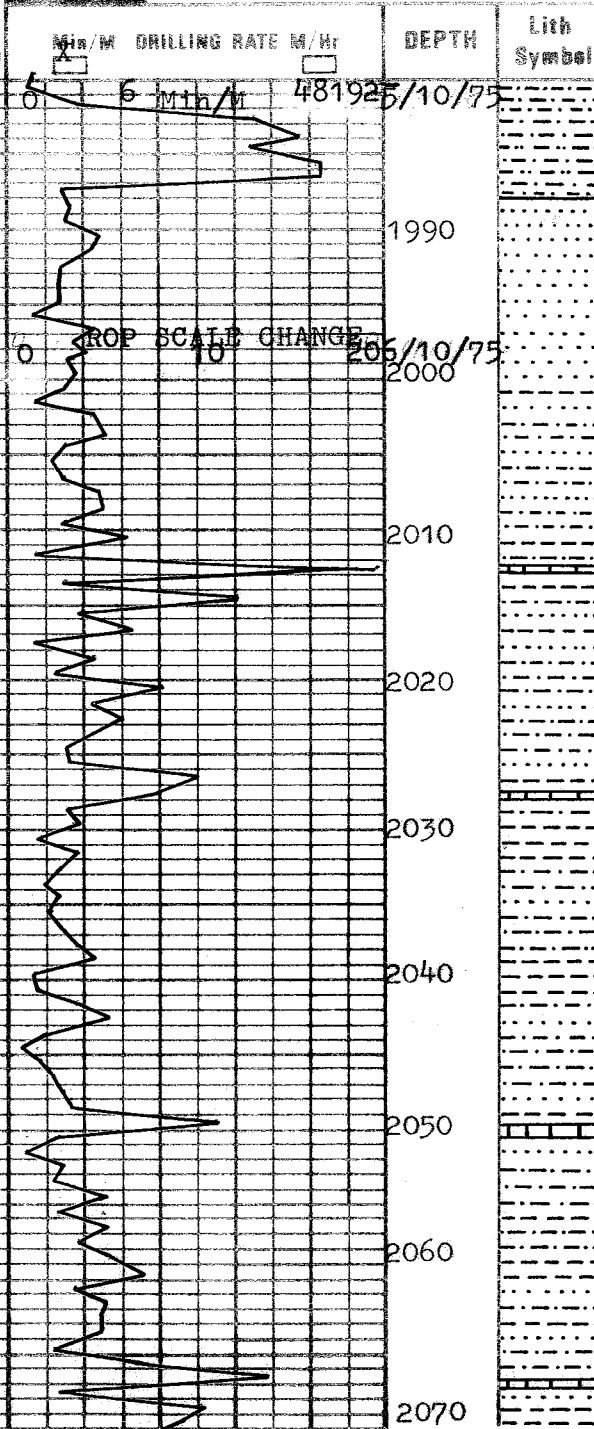
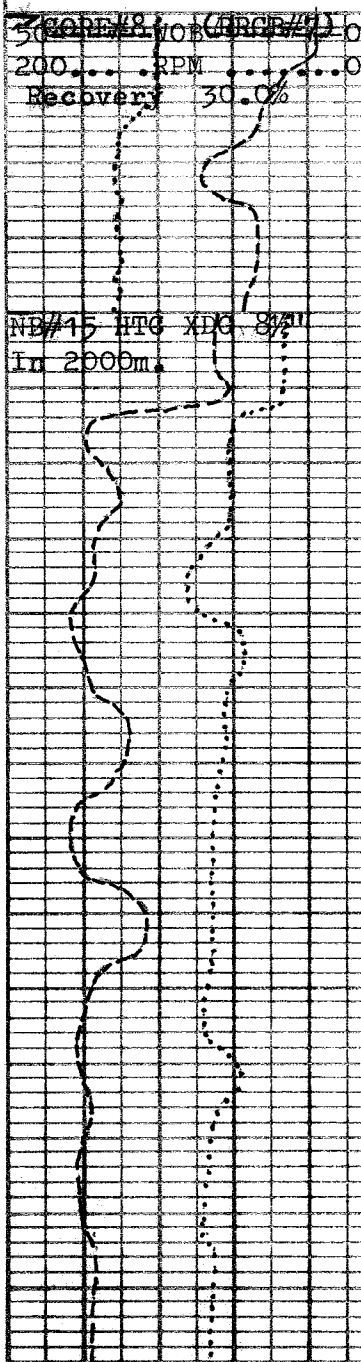
UNIT MGR RACHER

COMPANY NORSK HYDRO A/S
WELL 30/7-2A
AREA OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM
Recovery 30.0%

5000...RPM
Recovery 30.0%

ND#15 HTG XLD 8 1/2"
In 2000m



ENGINEERING DATA



The Analysts
North Sea

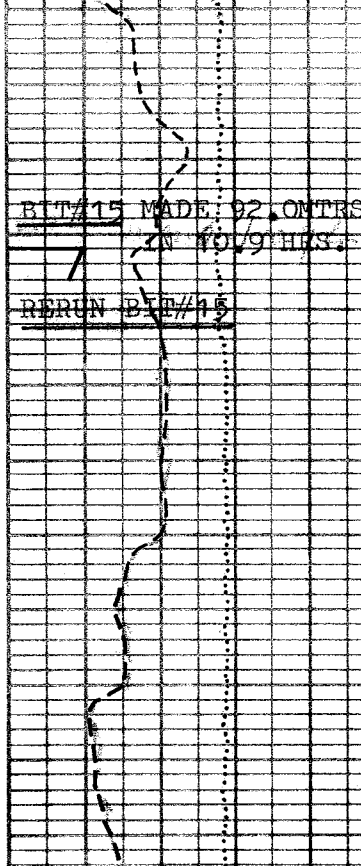
IDEL

UNIT MGR RACHER

COMPANY NORSK HYDRO A/s
WELL 30/7-2A
AREA OFFSHORE NORWAY

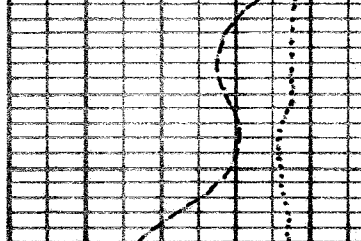
Weight of bit 1000 lbs
Rotary Speed RPM
Min/M DRILLING RATE M/Hr

50
200



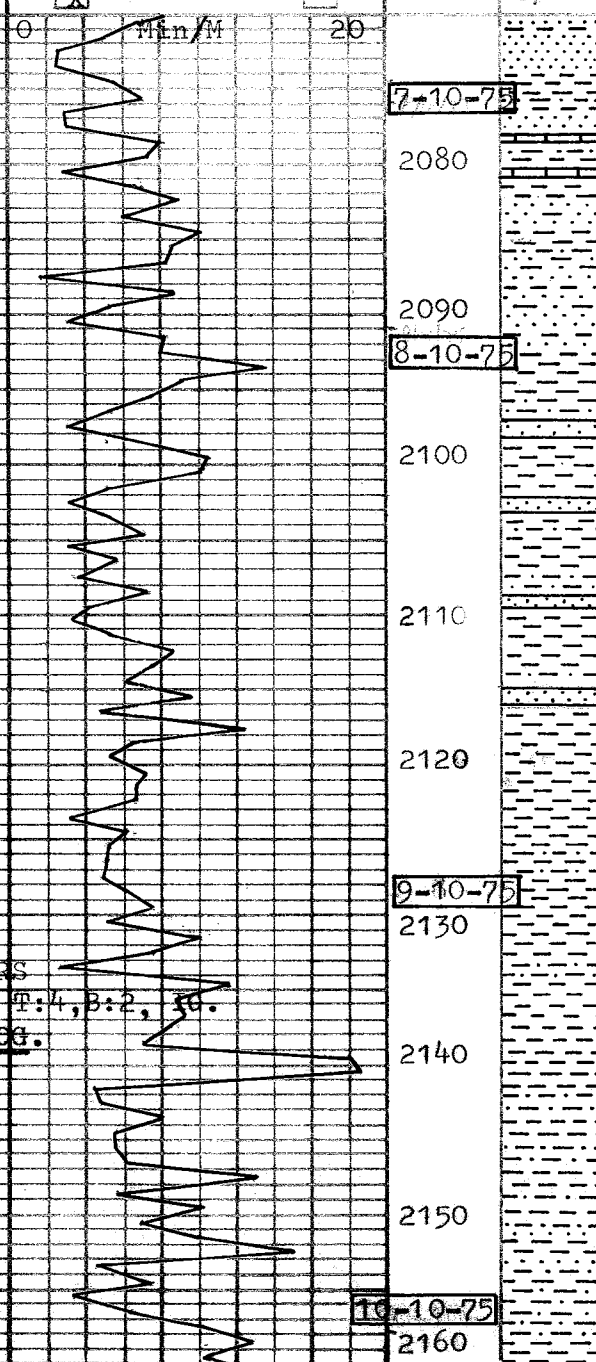
BIT/15 MADE 92.0MTRS
IN 10.9 HRS.
RERUN BIT/15

BIT/16: TOTAL 138 MTRS
in 16.4 HRS. T:4, B:2, 50.
RUN DILL OR LOG.



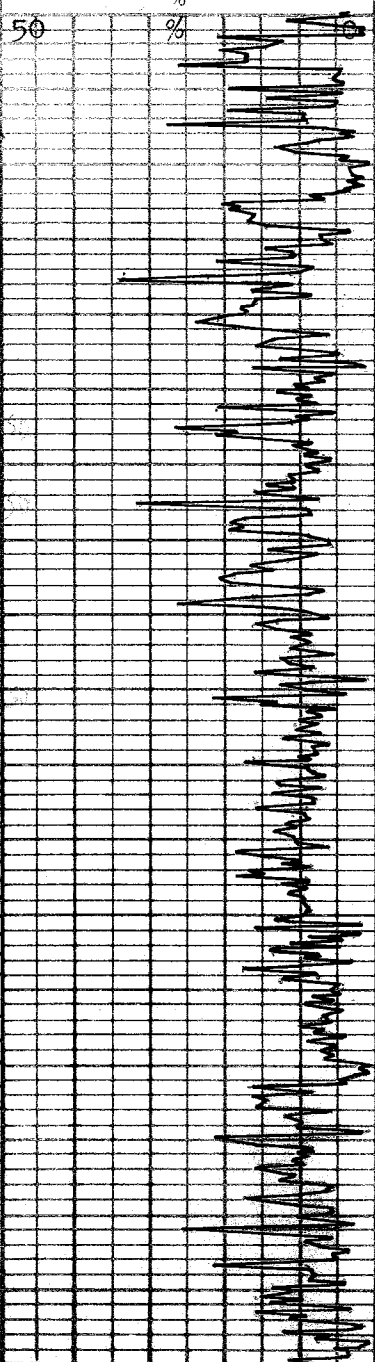
HTC 8.318 J33

Min/M DRILLING RATE M/Hr
DEPTH
Lith Symbol



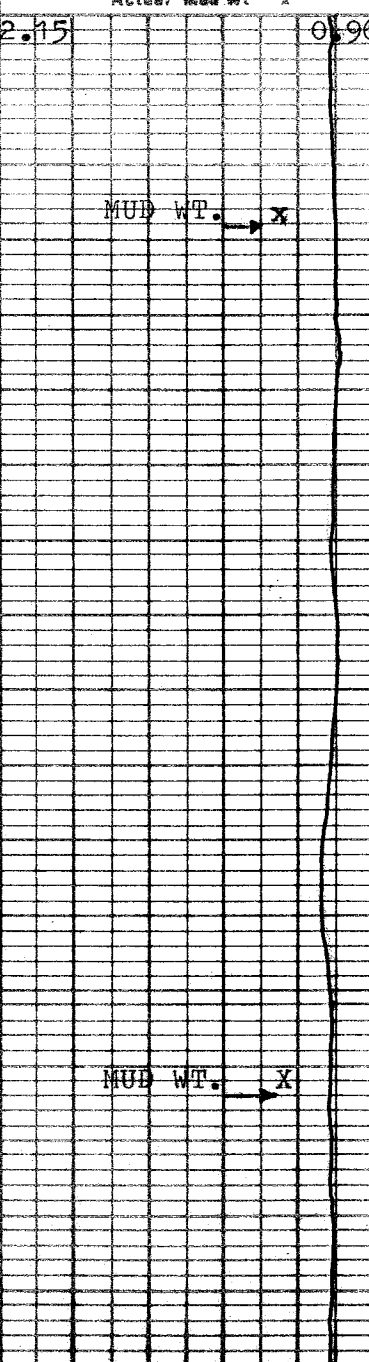
10-10-75

POROSITY %



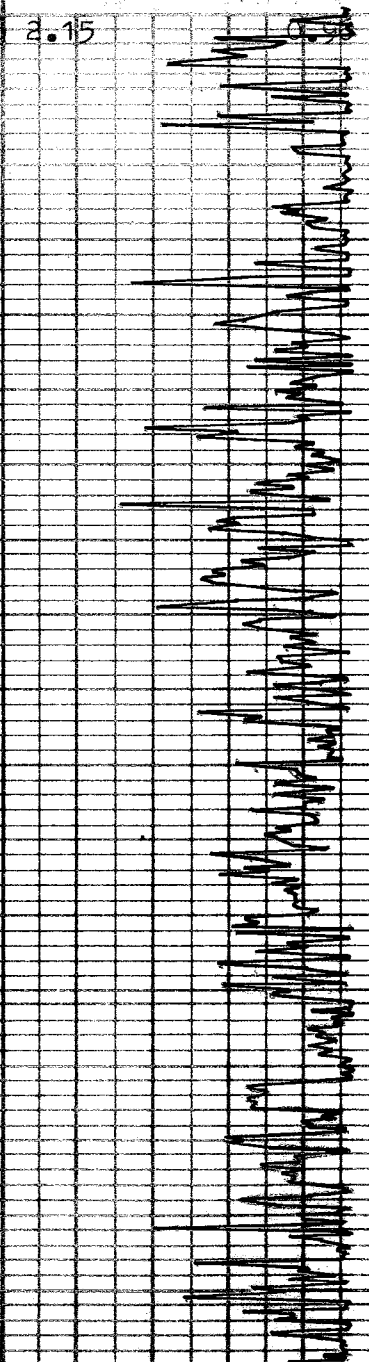
10-10-75

PORE PRESSURE
P.P.G. - SG. (Equiv.)
Actual mud wt - x



10-10-75

EXPONENT
PPG - SP (Equiv.)



10-10-75

ENGINEERING DATA



The Analysts
North Sea

IDEAL

UNIT MGR RACHER

COMPANY

NORSK HYDRO A/S

WELL

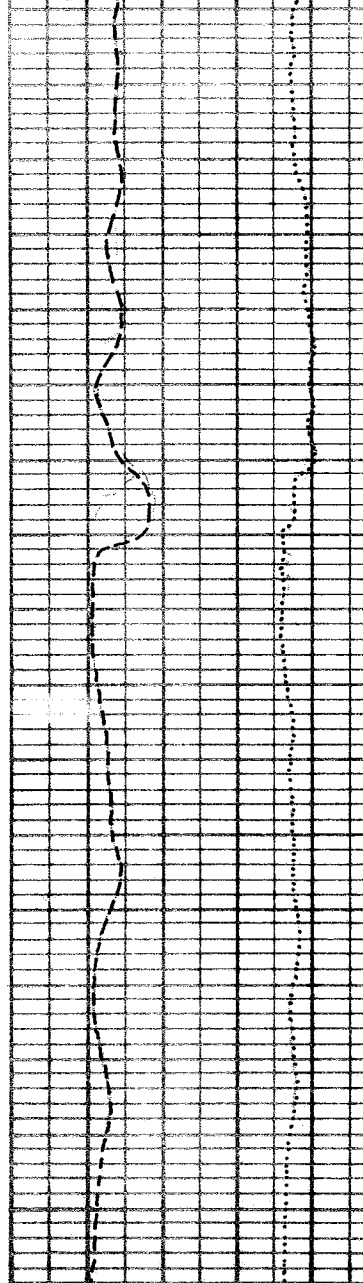
3077-2A

AREA

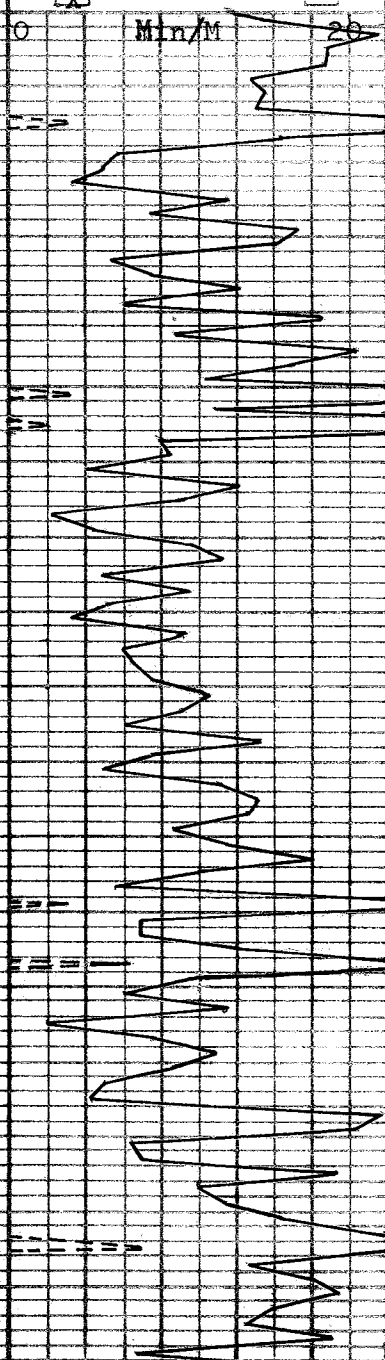
OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

Min/M DRILLING RATE M/Hr
Min/M



Min/M DRILLING RATE M/Hr
Min/M



DEPTH

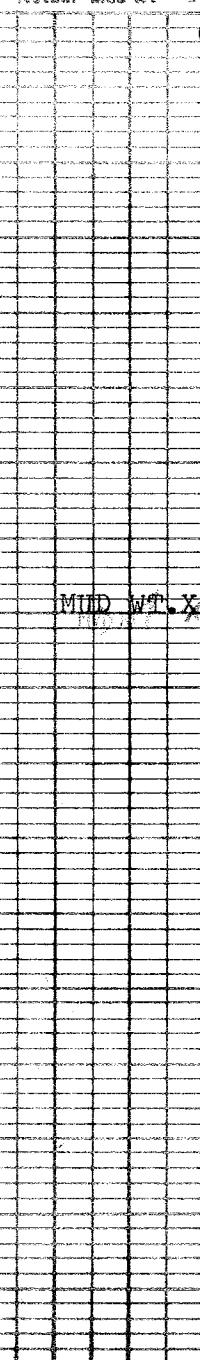
Lith
Symbol



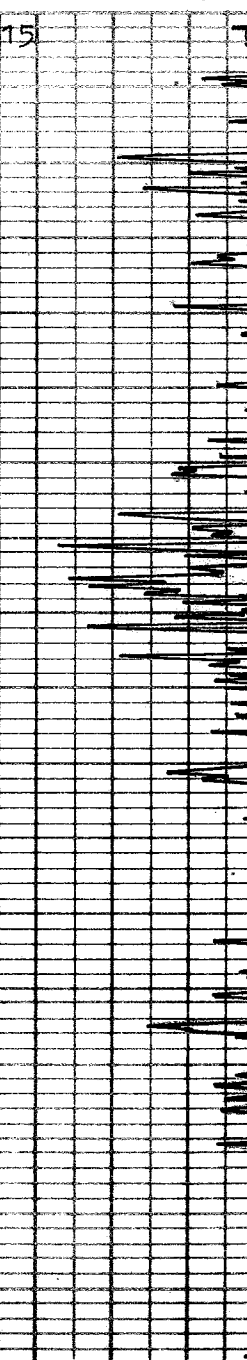
POROSITY
%



PORE PRESSURE
PPG-SE (Equiv.)
Actual mud wt - x

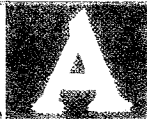


'A' EXPONENT
PPG-SP (Equiv.)



MUD WT. X

ENGINEERING DATA



The Analysts
North Sea

IDEL

UNIT MGR RACHER

COMPANY

NORSK HYDRO

WELL

30/7-2A

AREA

OFFSHORE NORWAY

Weight of bit 1000 lbs
Rotary Speed RPM

WOB RPM

Min/M DRILLING RATE M/Hr

DEPTH

Lith
Symbol

POROSITY
%

PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

50 100 200

Min/M

20

50 %

2.15

0.96

2.15

0.96

MUD WT...A

MUD WT...X

SHORT TRIP

2260

11-10-75

2270

2280

2290

2300

2310

2320

12-10-75

2330

2340

ENGINEERING DATA

AThe Analysts
North Sea**IDEL**
UNIT MGR RACHER

COMPANY NORSK HYDRO A/s

WELL 30/7-2A

AREA OFFSHORE NORWAY

--- Weight of bit ---
50 1000 lbs
• • • Rotary Speed • • •
200 RPM

Min/M DRILLING RATE M/Hr

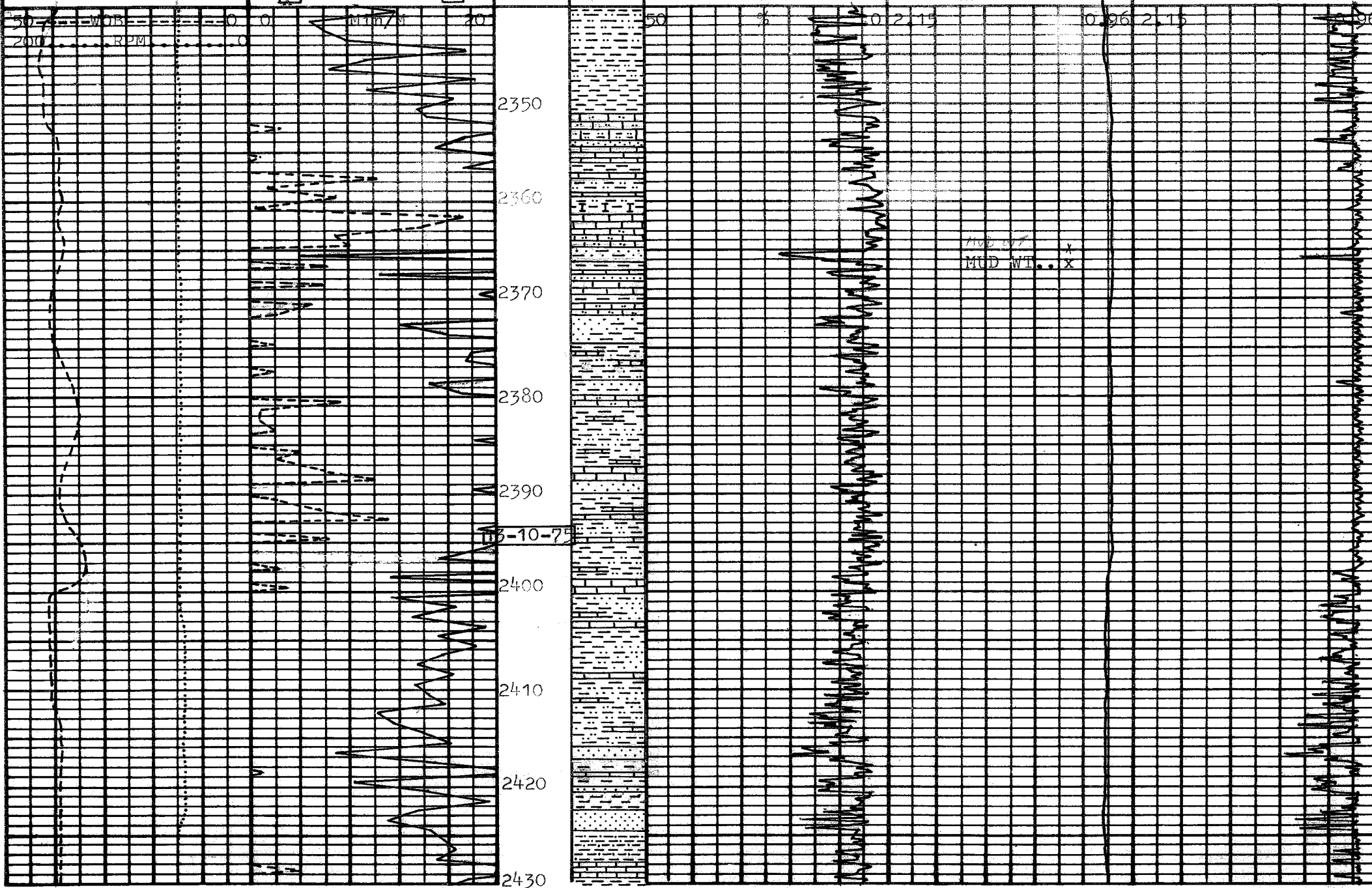
☒

DEPTH

Lith
Symbol

POROSITY

%

PORE PRESSURE
PPG- SG- (Equiv.)
Actual mud wt - x**'A'** EXPONENT
PPG- SP (Equiv.)

ENGINEERING DATA

A

The Analysts North Sea

IDEL UNIT MGR RACHER

COMPANY NORSK HYDRO
WELL 30/7-2A
AREA OFFSHORE NORWAY

--- Weight of bit ---
50 1000 lbs
• • • Rotary Speed • • •
200 RPM

Wt/M DRILLING RATE M/M

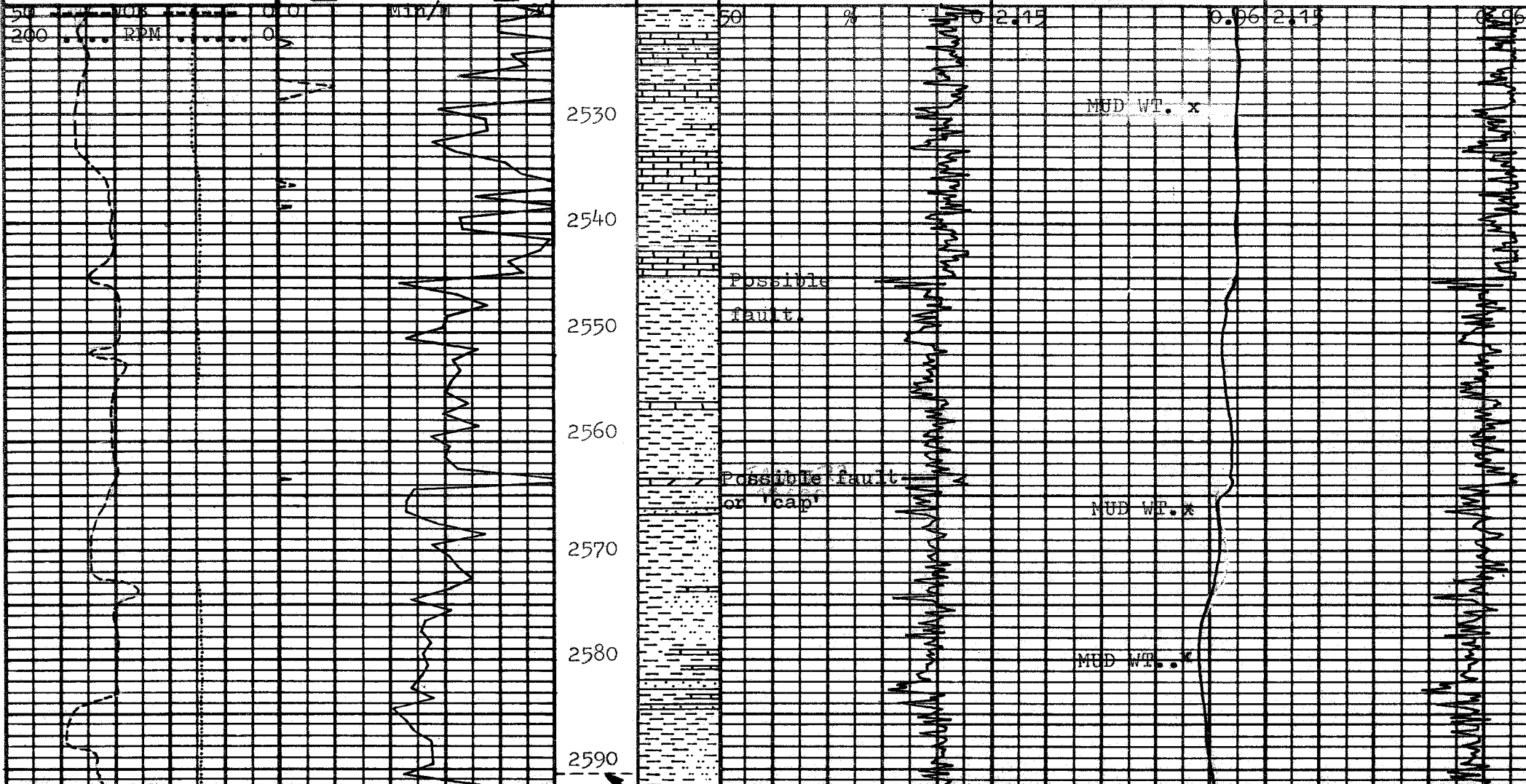
DEPTH

Lith
Symbol

POROSITY
%

PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)



BIT #17 MADE 131.6mrs
TOTAL 32.6hrs
TOTAL REVS 120,838
11 B-1: G O ABC .4
T.D. REACHED 15/10/75 - 2591.7 m. BY PIPE
TALLY

CORRECTED SCHLUMBERGER T.D. 2590.5 m.
CIRCULATE OUT; COMMENCE SCHLUMBERGER LOGGING - IES, SHC - CR
PDC, ONL, HDT, DST, FIT, CST, Velocity.
SET CASING
TESTING

ENGINEERING DATA

A

The Analysts North Sea

IDEL UNIT MGR RACHER

COMPANY NOSK HYDRO
WELL 30/7-2A
AREA OFFSHORE NORWAY

--- Weight of bit ---
50 1000 lbs
• • • Rotary Speed • • •
200 RPM

min/M DRILLING RATE M/Hr
☒ min/M ☐ min/M

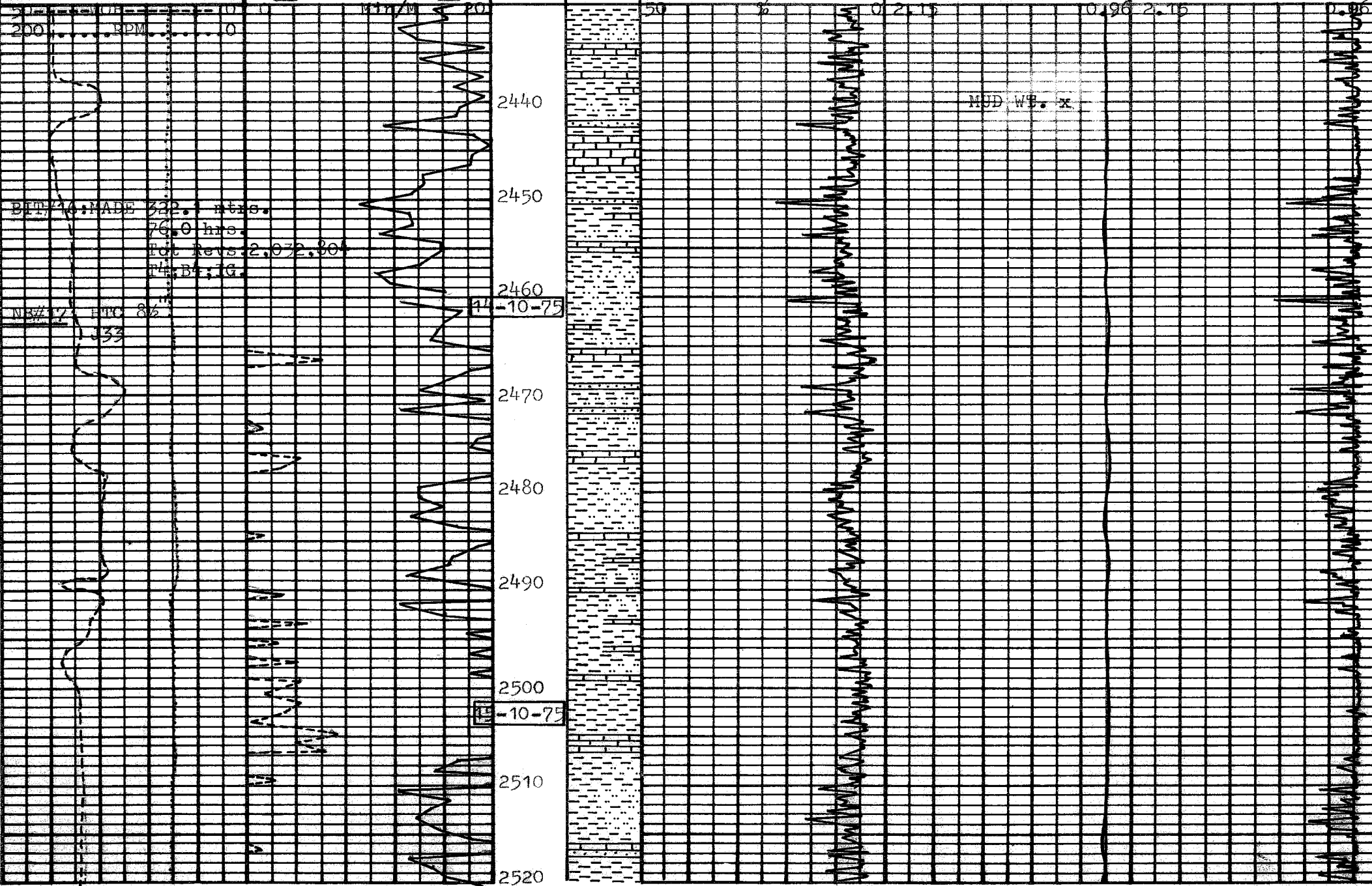
DEPTH

Lith
Symbol

POROSITY
%

PORE PRESSURE
P.P.G.-SG- (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG-SP (Equiv.)



ENGINEERING DATA

AThe Analysts
North Sea**IDEL**

UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S

WELL 30/7-2

AREA OFFSHORE NORWAY

--- Weight of bit ---
50 1000 lbs 0
• • • Rotary Speed • • •
200 RPM 0

Min/M DRILLING RATE M/Hr
☐ ☐DEPTH
(M)Lith
SymbolPOROSITY
%PORE PRESSURE
PPG - SG - (Equiv.)
Actual mud wt - x'A' EXPONENT
PPG - SP (Equiv.)

50 1000 lbs 0 0
200 RPM 0

Min/M

20

RKB

50

%

0

2.15

0.96

2.15

0.96

MEAN SEA LEVEL @ 22.9 m.

10

20

30

40

50

60

70

80

90

ENGINEERING DATA

--- Weight of bit ---
50 1000 lbs 0
• • • Rotary Speed • • •
200 RPM 0

AThe Analysts
North Sea**IDEL**
UNIT MGR D. RACHERCOMPANY NORSK HYDRO A/SWELL 30/7-2AREA OFFSHORE NORWAYPORE PRESSURE
PPG SG (Equiv)
Actual mud wt — x**'A'** EXPONENT
PPG - SP (Equiv)M_h/M DRILLING RATE M Hr
☒ ☐DEPTH
(M)Lith
SymbolPOROSITY
%

50 WOB 0 0
200 RPM 0

M_h/M

20

50

50

%

2.15

0.96

2.15

0.96

100

110

120

130

140

150

160

170

180

WELLHEAD AT 131.72 m.

ENGINEERING DATA

--- Weight of bit 1000 lbs ---
50 0
• • • Rotary Speed • • •
200 RPM 0



The Analysts
North Sea

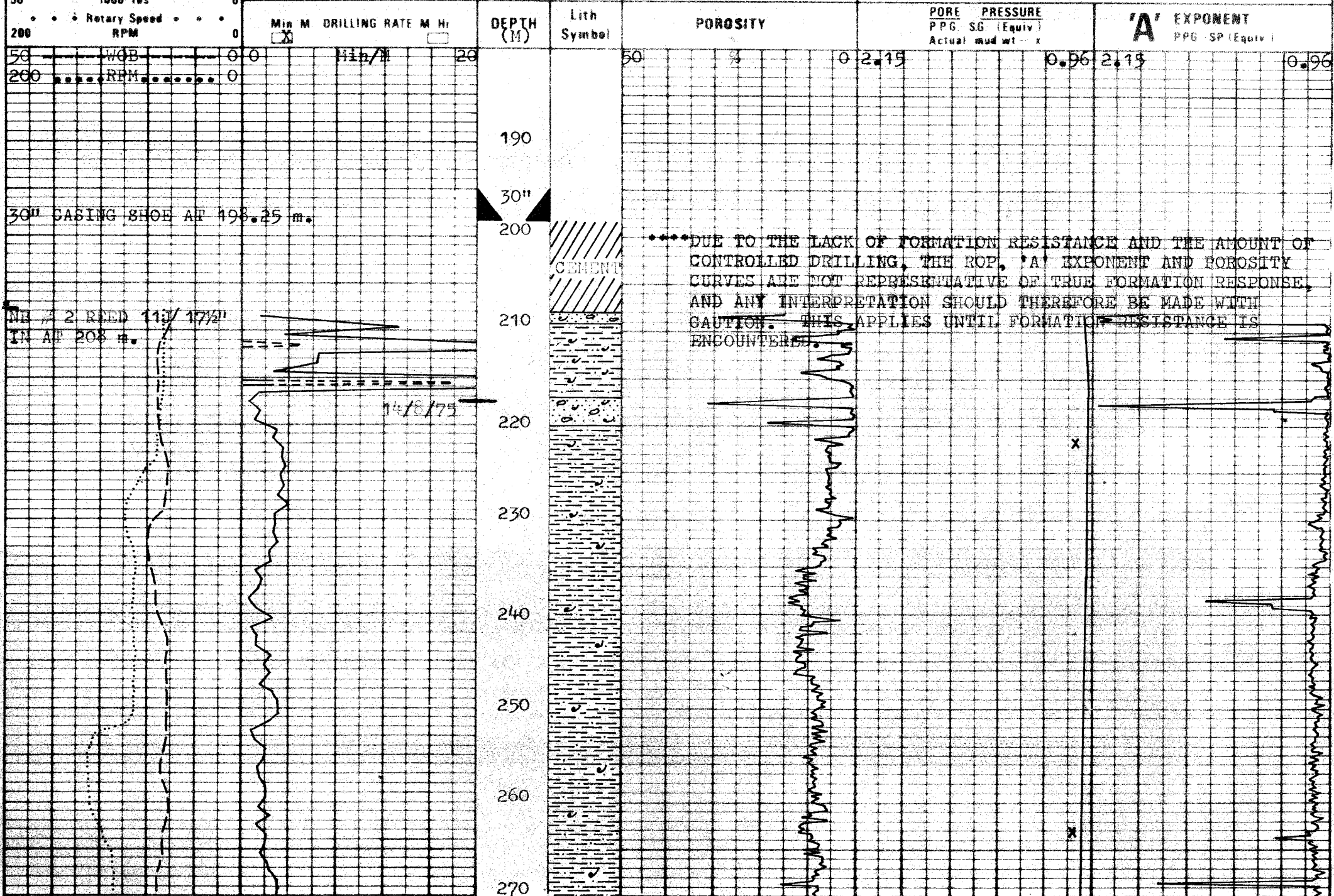
IDEL

UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S

WELL 3077-2

AREA OFFSHORE NORWAY



ENGINEERING DATA

--- Weight of bit ---
 1000 lbs
 • • • Rotary Speed • • •
 RPM

50
 200



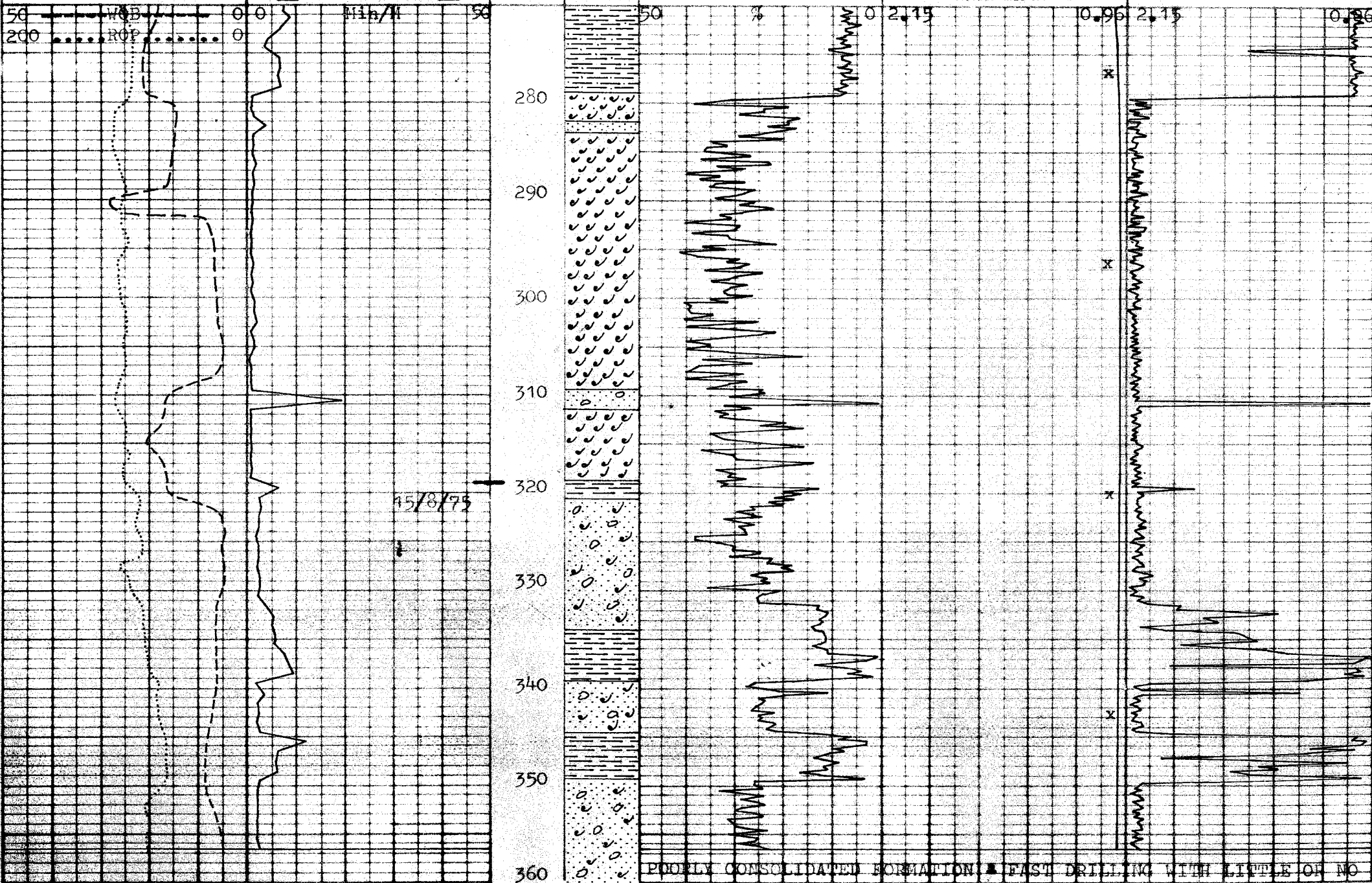
The Analysts
North Sea

IDEL
 UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S
 WELL 30/7-2
 AREA OFFSHORE NORWAY

PORE PRESSURE
 PPG SG (Equiv)
 Actual mud wt x

'A' EXPONENT
 PPG SP (Equiv)



ENGINEERING DATA

--- Weight of bit ---
50 1000 lbs 0
• • • Rotary Speed • • •
200 RPM 0

A

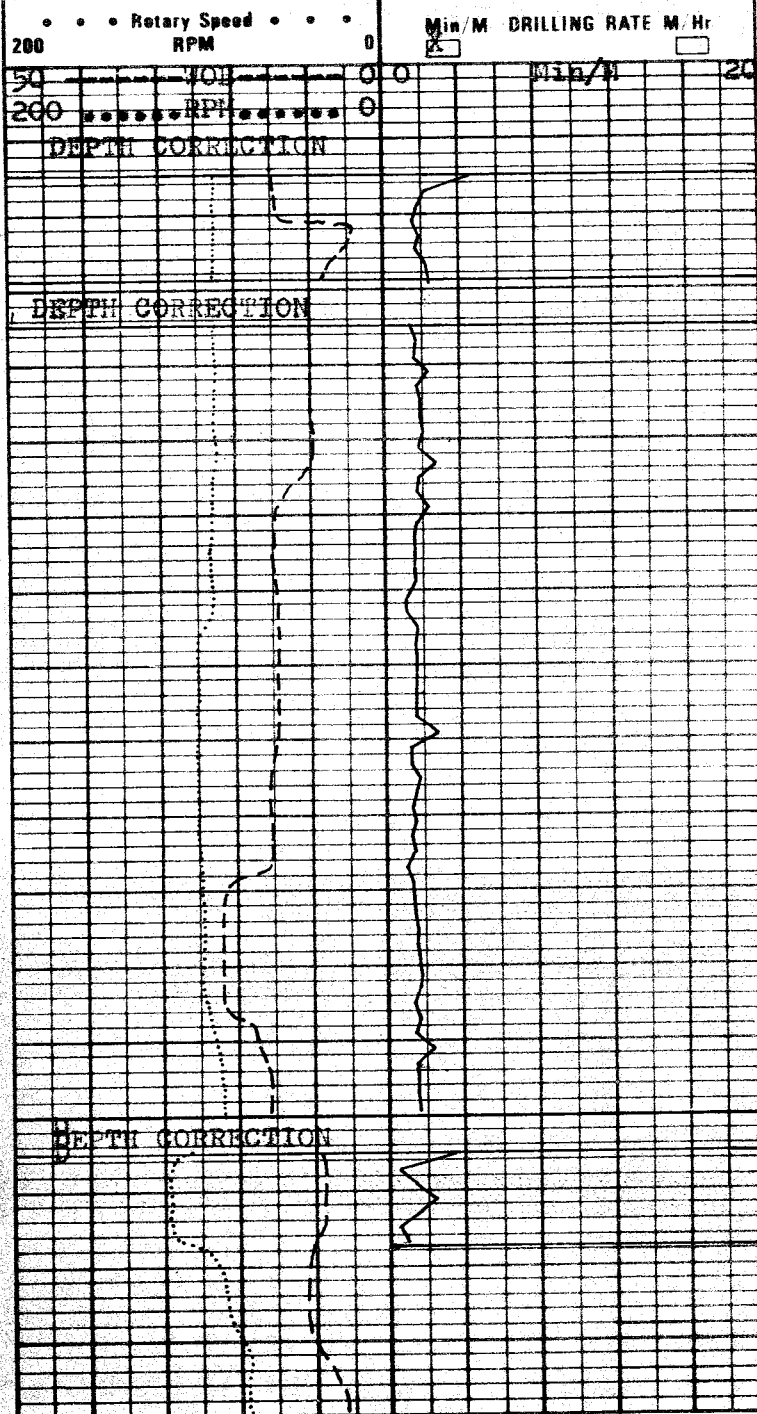
The Analysts
North Sea

IDEL
UNIT MGR D. RACHER

COMPANY NORSK HYDRO A/S
WELL 30/7-2
AREA OFFSHORE NORWAY

PORE PRESSURE
P.P.G. - S.G. (Equiv.)
Actual mud wt - x

'A' EXPONENT
PPG - SP (Equiv.)

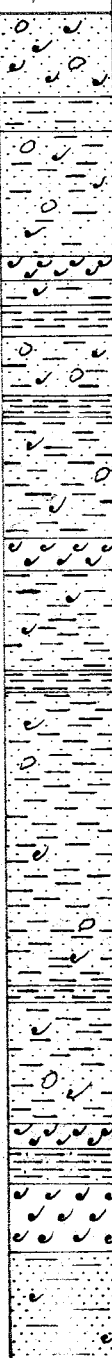


DEPTH (M)

Lith
Symbol

POROSITY

50 200 0 2.15 0.96 2.15 0.96
WEIGHT ON BIT - NO FORMATION RESPONSE - NO DRIFTOUT



DEPTH WHEEL INOPERATIVE, NO DATA COLLECTED DURING REPAIRS.

PORE PRESSURE

30/7-2

P.P.G. - S.G. - (Equiv.)

Actual mud wt - x

220 m	0.99	700 m	1.02
40	1.00	20	1.02
60	1.01	40	1.02
80	1.01	60	1.02
300	0.99	80	1.02
20	0.99	800	1.02
40	1.00	20	1.02
60	1.01	40	1.02
80	1.02	60	1.02
400	1.03	80	1.02
20	1.04	900	1.02
40	1.01	20	1.02
60	1.00	40	1.02
80	1.02	60	1.02
500	1.02	80	1.02
20	1.02	1000	1.02
40	1.02	20	1.02
60	1.02	40	1.03
80	1.02	60	1.03
600	1.02	80	1.05
20	1.02	1100	1.06
40	1.02	20	1.10
60	1.02	40	1.10
80	1.02	60	1.08

1180 m	1.08
1200	1.05
20	1.04
40	1.08
60	1.07
80	1.06
1300	1.04
20	1.07
40	1.06
60	1.05
80	1.04
1400	1.05
20	1.07
40	1.06
60	1.04
80	1.06
1500	1.03
20	1.06
40	1.06
60	1.05
80	1.04
1600	1.06
20	1.07
40	1.07
60	1.06
80	1.07
1700	1.10

1720 m	1.14
40	1.14
60	1.09
80	1.08
1800	1.08
20	1.08
40	1.10
60	1.09
80	1.10
1900	1.09
20	1.14
40	1.14
60	1.11
80	1.13
2000	1.13
20	1.12
40	1.14
60	1.15
80	1.09
2100	1.08
20	1.10
40	1.10
60	1.10
80	1.08
2200	1.10
20	1.08
40	1.08

2260	m	1.07
80		1.07
2300		1.07
20		1.07
40		1.10
60		1.07
80		1.07
2400		1.08
20		1.10
40		1.08
60		1.08
80		1.07
2500		1.08
20		1.10
40		1.09
60		1.12
80		1.25