

EXPLORATION LOGGING INC.

A GEOLOGICAL - ENGINEERING SERVICE CO.

Spare



REMARKS

DRILLING CONTRACTOR **ODECO** RIG NO. **OCEAN DIGGER**
 SPUD DATE **AUG. 18, 1969**
 TYPE MUDDS **GEL**

ABBREVIATIONS

NB NEW BIT	W MUD WEIGHT
RRB RERUN BIT	V MUD VISCOSITY
CB CORE BIT	F MUD FILTRATE <input type="checkbox"/> CC/30 MIN
CR CIRCULATE RETURNS	FC FILTER CAKE
NR NO RETURNS	SD SAND CONTENT
PR POOR RETURNS	S SALINITY <input type="checkbox"/> G/G
LAT LOGGED AFTER TRIP	<input checked="" type="checkbox"/> PPM <u>CL-</u>
TG TRIP GAS	R RESISTIVITY OF MUD
CG CONNECTION GAS	RF RESISTIVITY MUD FILTRATE
C CARBIDE	
DST DRILL STEM TEST	
] DST INTERVAL	
█ CORE INTERVAL	

COMPANY **ESSO-BHP**
 WELL **MUSSEL 1**
 FIELD **OTWAY BASIN**
 LOCATION **OFFSHORE**
 COUNTY, STATE **VICTORIA, AUSTRALIA**
 API WELL INDEX NO.
 ELEVATION **SEA LEVEL; K.B. 99 FT**
 DATE FROM TO
 DEPTH FROM **920 FT** TO
 UNIT NO. **25**
 LOGGING GEOLOGISTS **CRAIG; WEARE**

CASING RECORD

20" AT 882'
 AT

HOLE SIZE

TO
 TO

OIL Based on live oil in unwashed cuttings and percentage staining of washed cuttings.

GAS UNITS Gas Detector calibrated to record 100 units with a mixture of 2% methane-in-air.

LITHOLOGY SYMBOLS

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LIME- STONE	DOLO- MITE	GYPSUM AND ANHYDRITE	SALT	COAL AND LIGNITE	CLAY	SHALE	SILT- STONE	SANDY SILTST.	SAND	CONGL- OMERATE	CHERT	VOL- CANICS	INTRU- SIVE	

EXPLORATION LOGGING

DRILLING RATE AND DATA

FT/HR
 MIN/FT

VISUAL POROSITY

CD FAIR TR

DEPTH
TEST

LITHOLOGY

OIL

TRACE
GD TRACE
FAIR
GOOD
V. GOOD

DRILLING MUD

CONTINUOUS DITCH GAS

OIL IN MUD
TR. X
FAIR XX
GD. XXX

TOTAL GAS _____
BACKUP SCALE = 10X
PETROL VAP _____

CHROMATOGRAPHIC ANALYSIS

METHANE _____ BUTANES _____ 4
ETHANE _____ 2 _____ PENTANES _____ 5
PROPANE _____ 3 _____ M = 1000

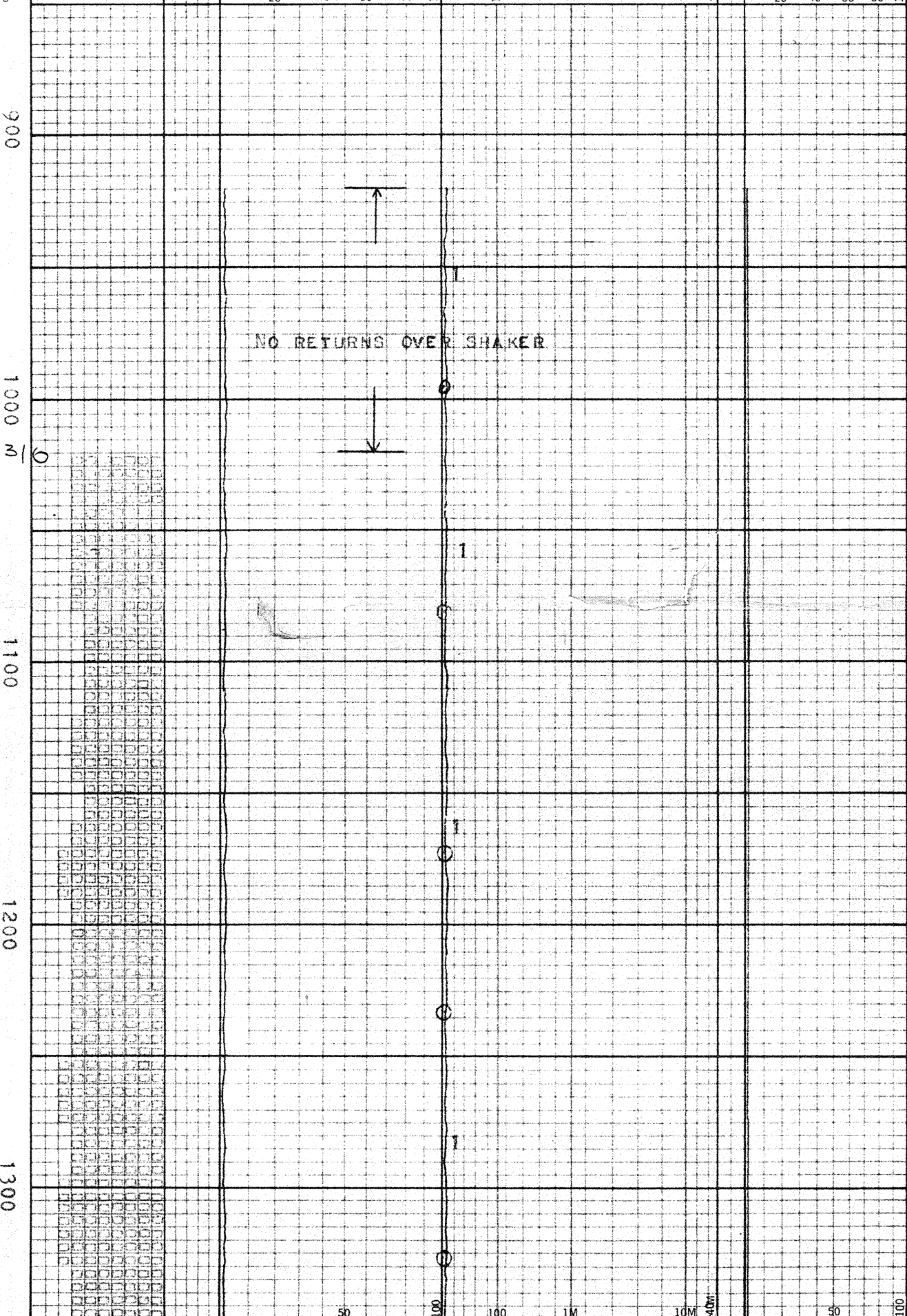
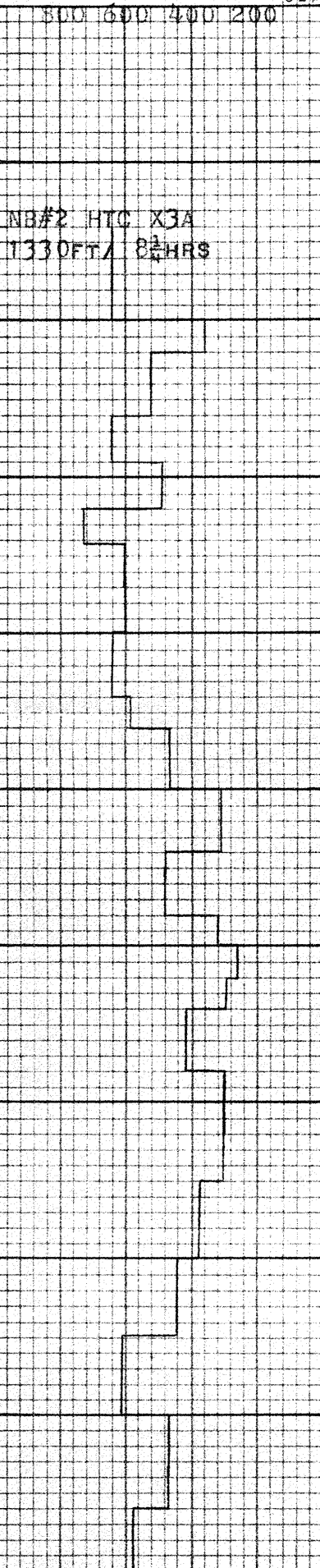
CO₂ 100 5

CUTTINGS

GAS

TOTAL GAS _____
BACKUP SCALE = 10X
PETROL VAP _____

REMARKS AND LITHOLOGY DESCRIPTION



SET 20" OSG AT 882'

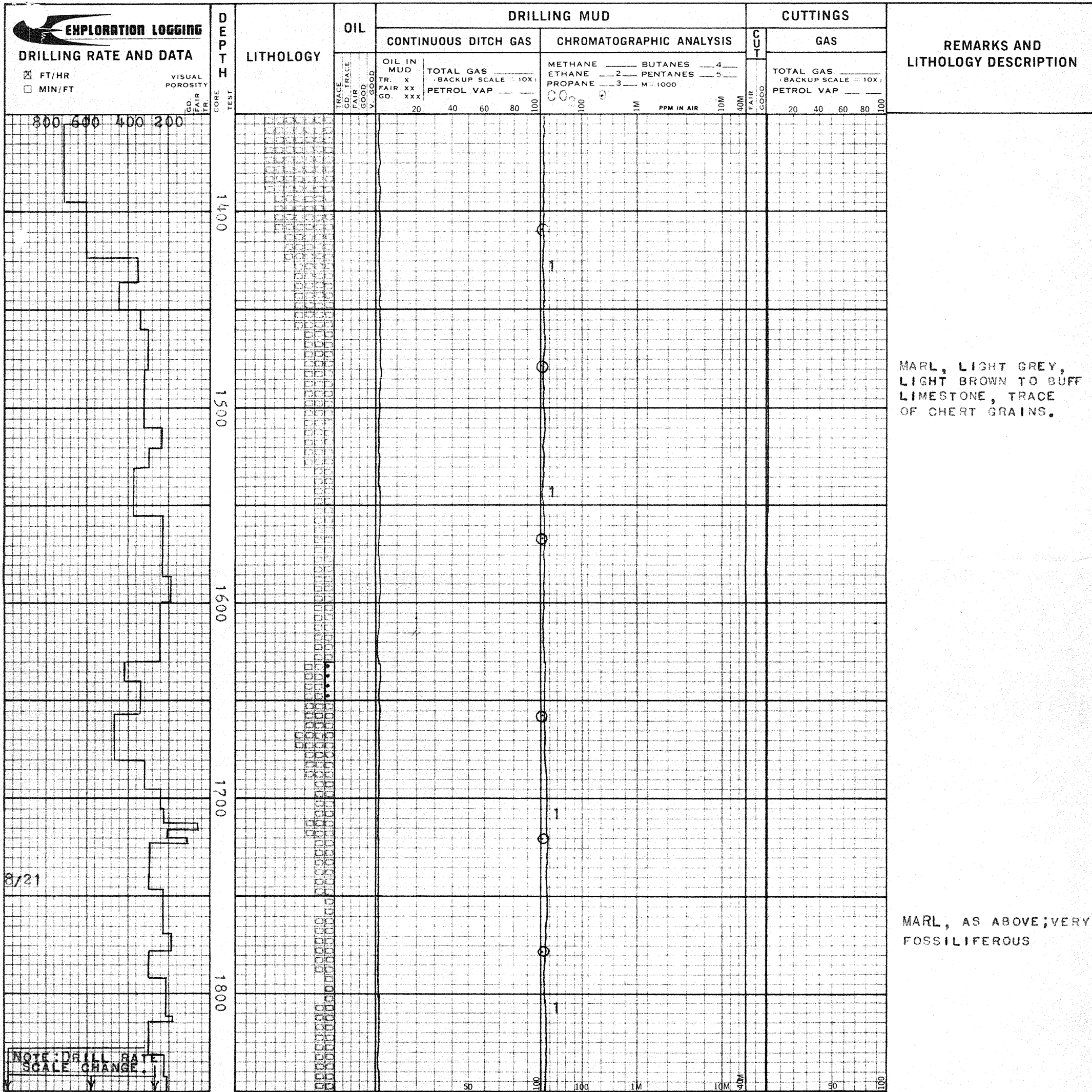
DRILLING AHEAD WITH 9 5/8" BIT.

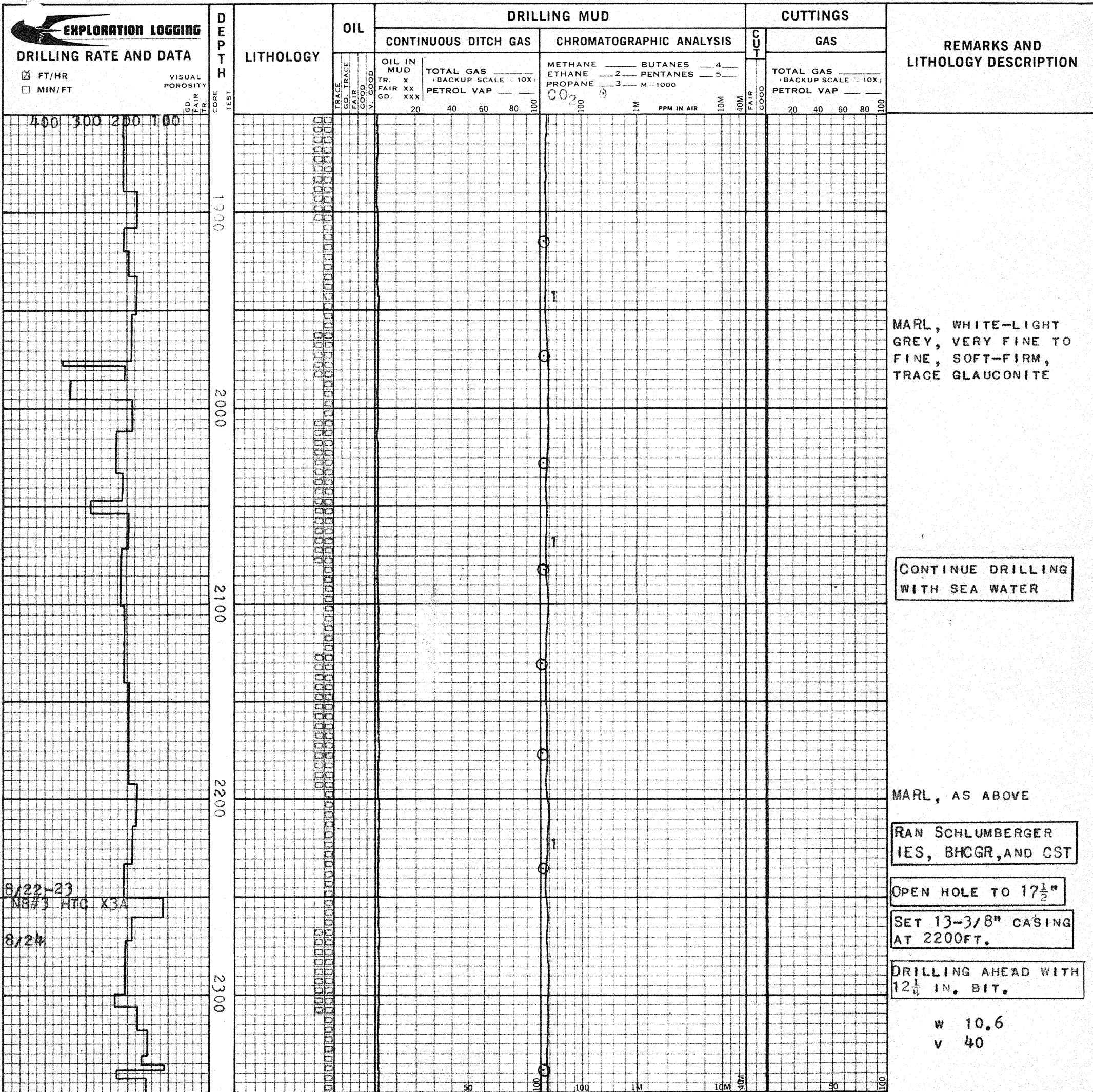
CHROMATOGRAPH CALIBRATION:

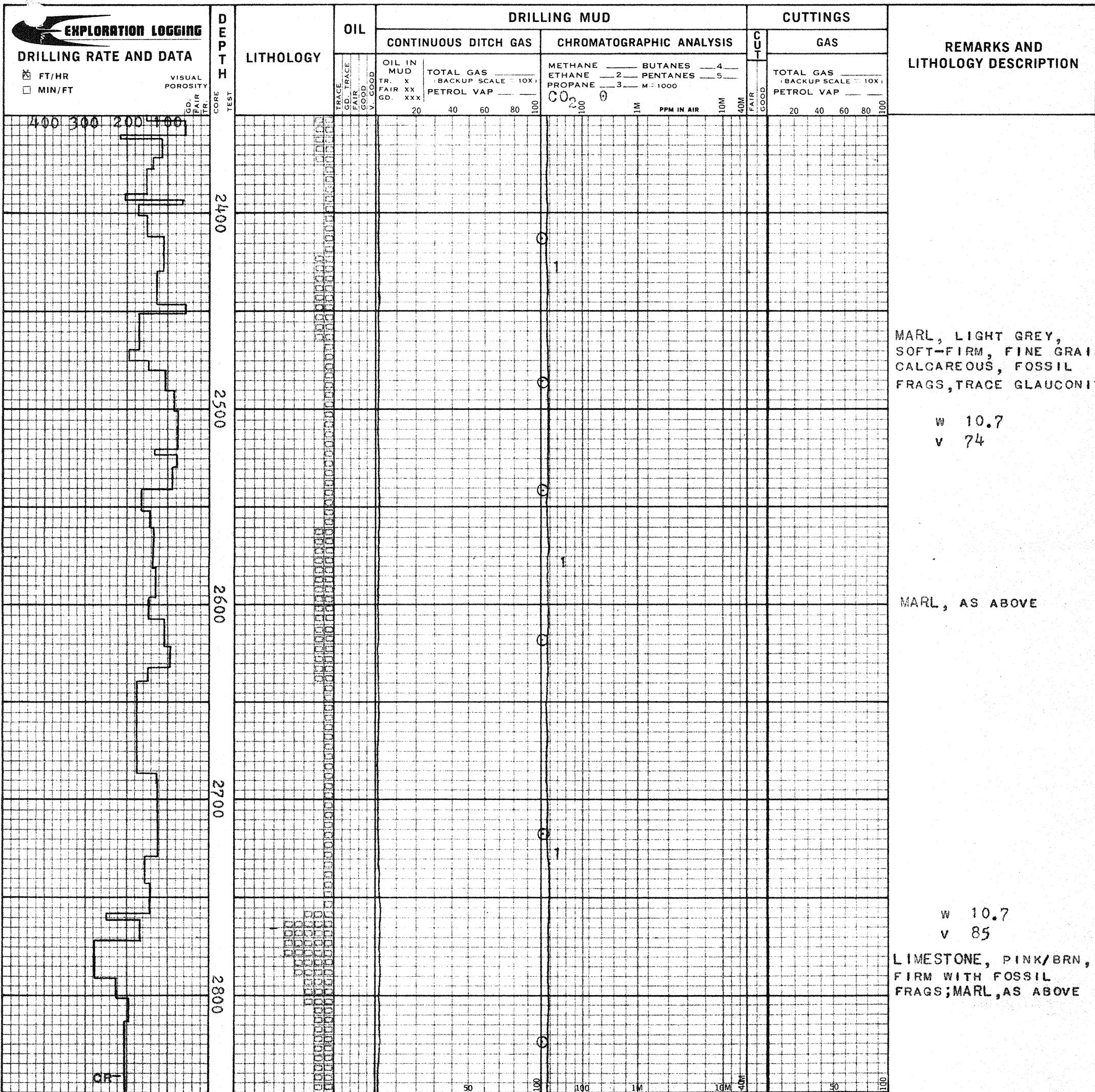
GAS	PPM/UNIT
O1	12.0
O2	7.5
O3	8.0
104	9.0
N04	11.5

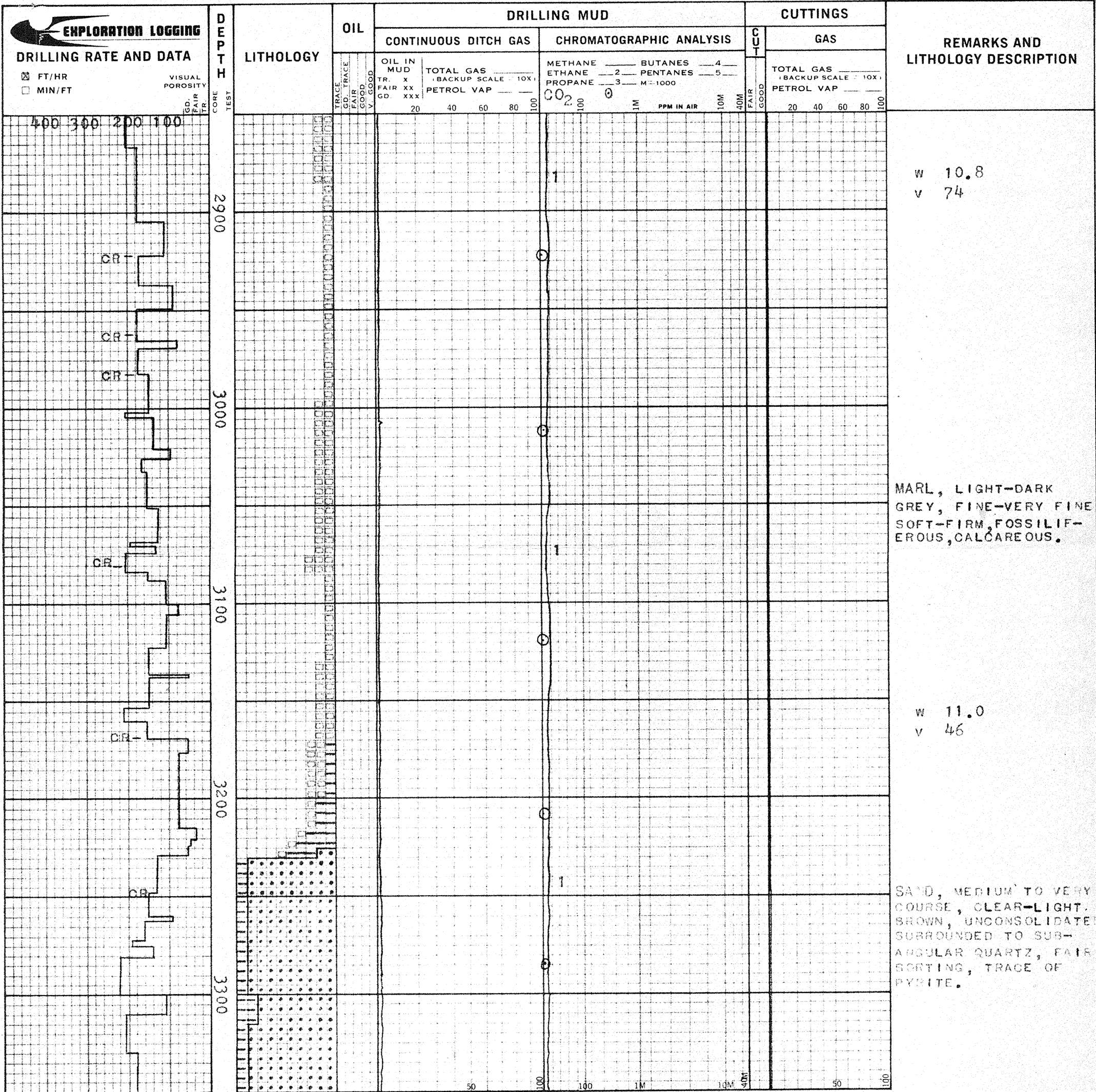
DRILLING WITH SEA WATER.

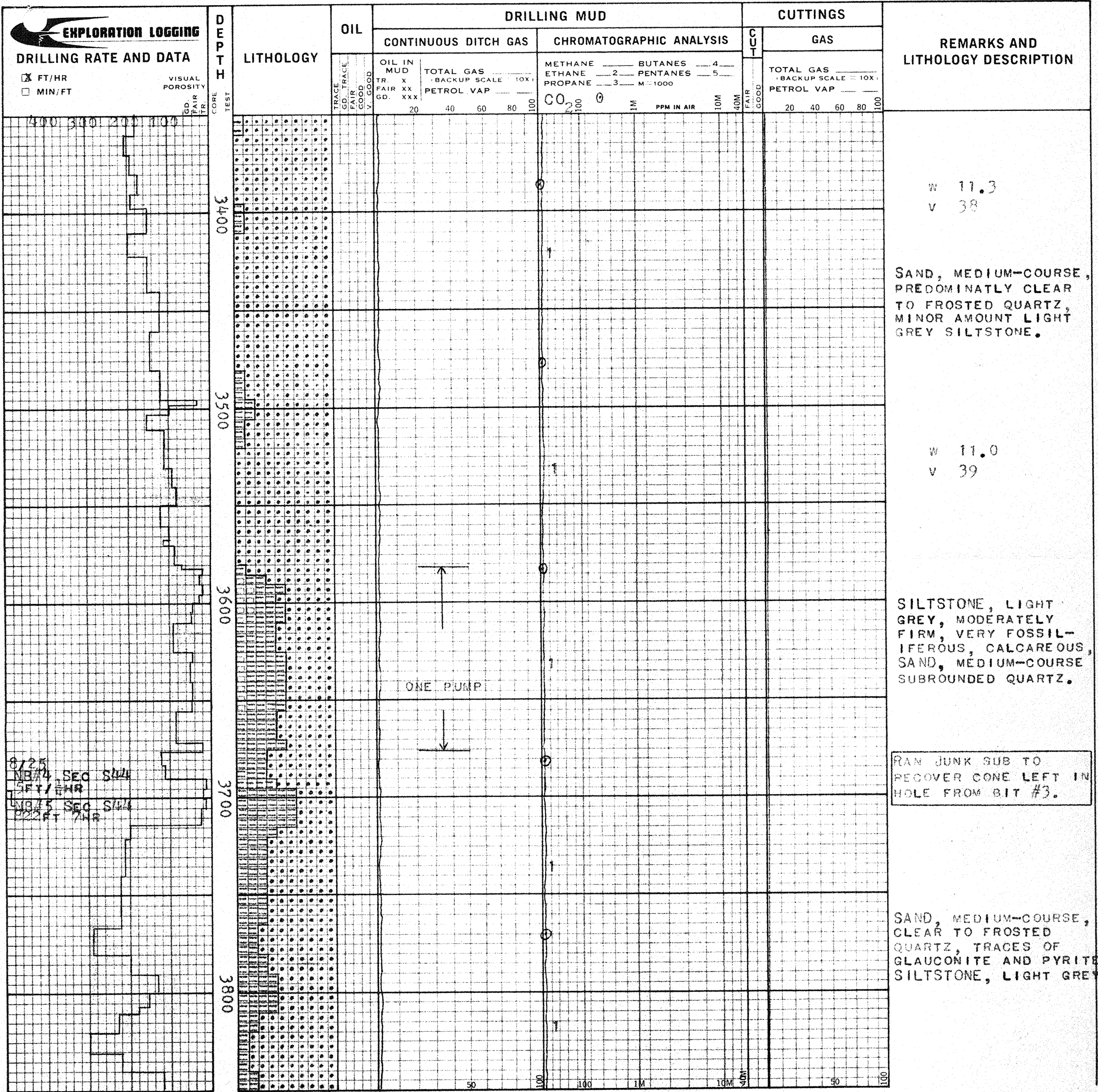
LIMESTONE, LIGHT GREY TO LIGHT BUFF, MARL, LIGHT GREY, VERY FOSSILIFEROUS, TRACE OF CHERT GRAIN.





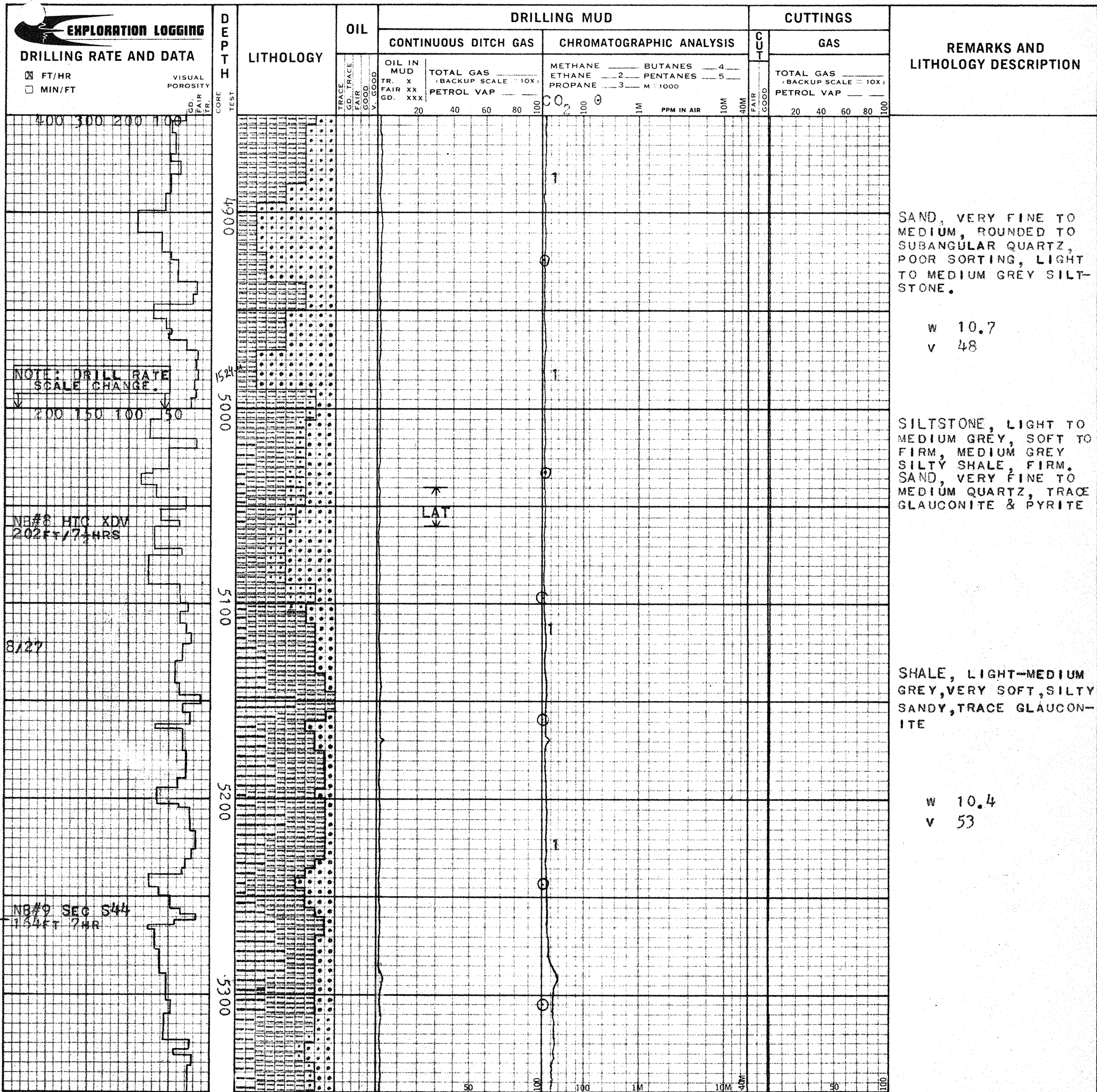


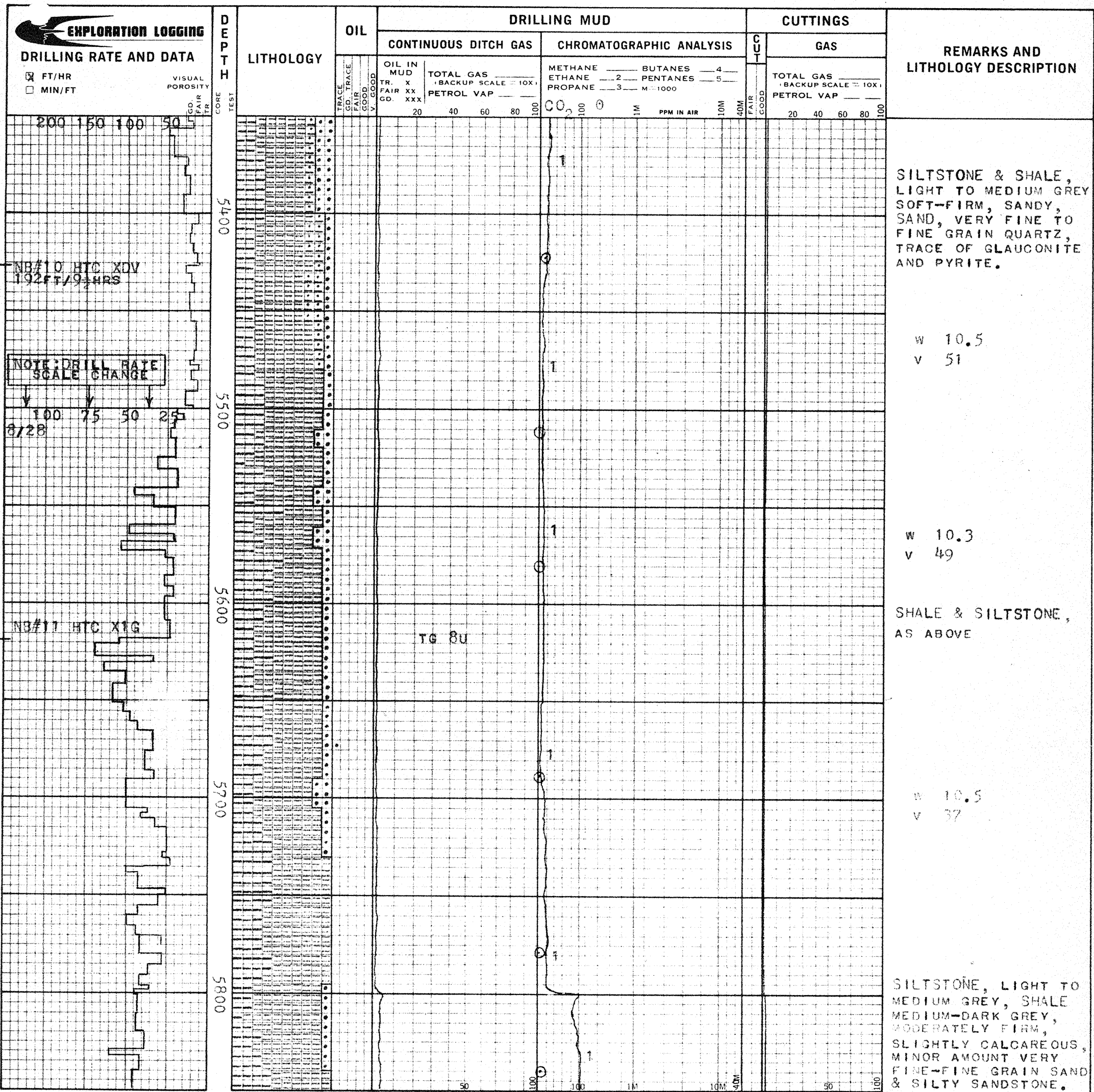


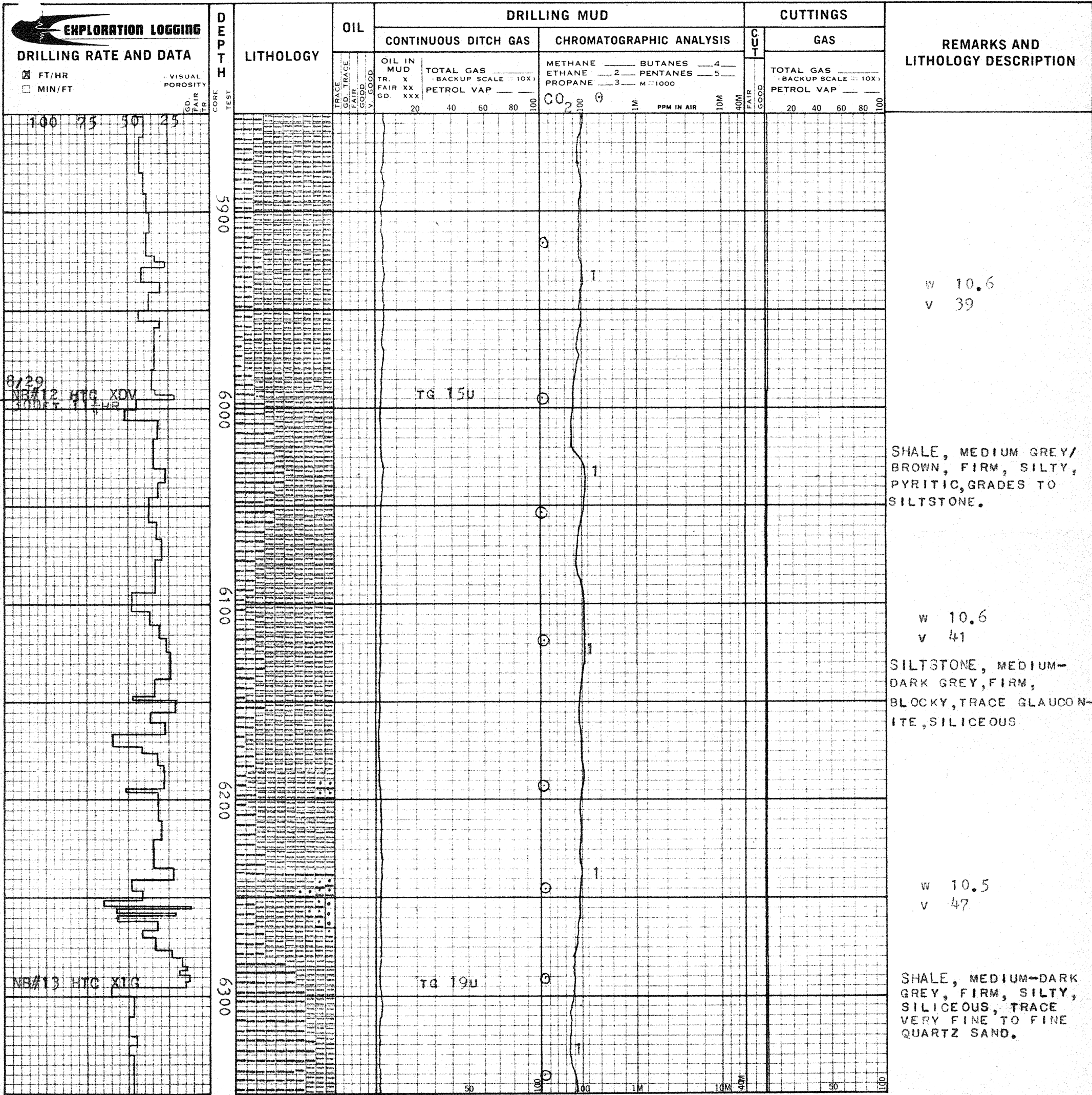


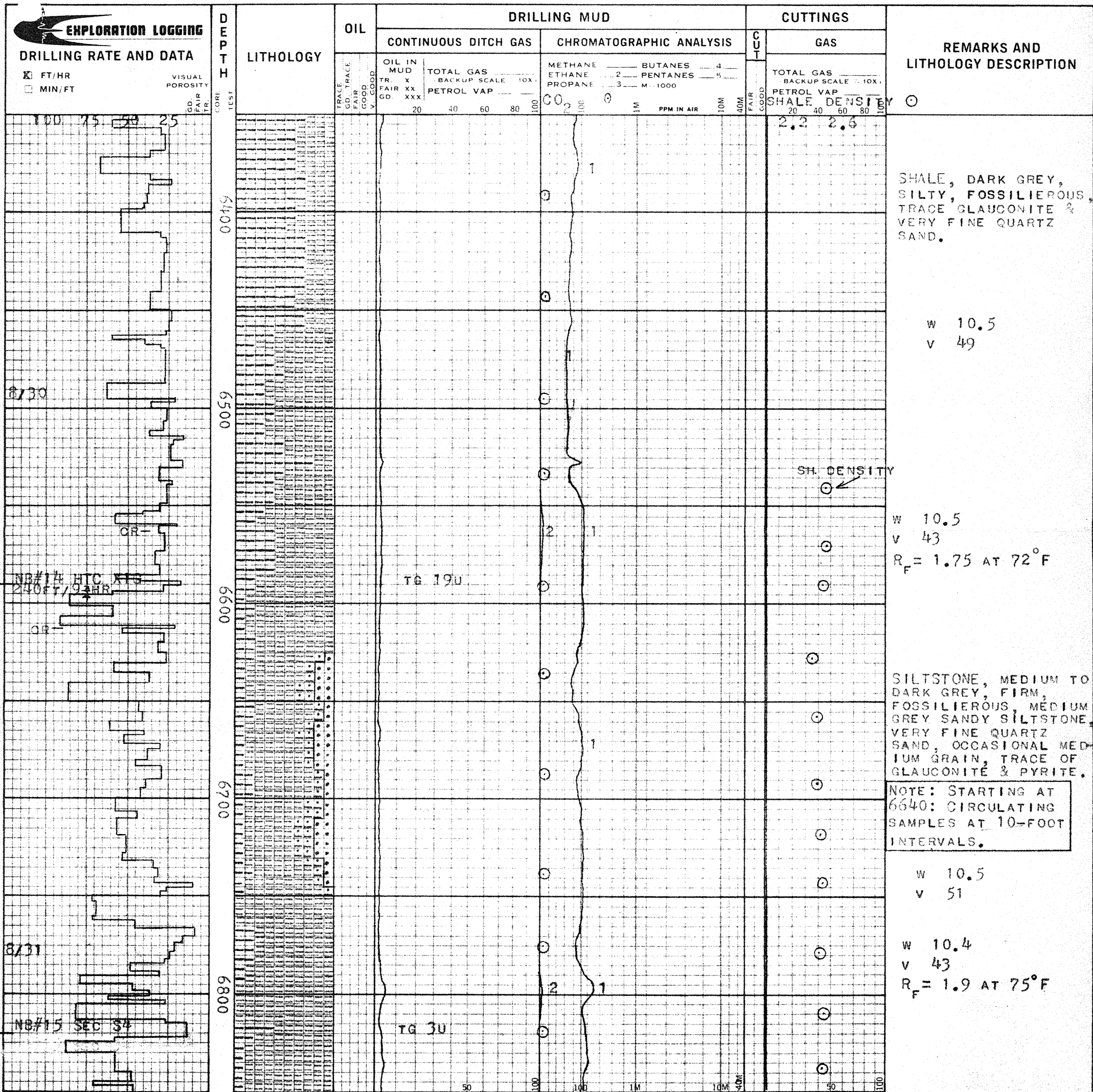
EXPLORATION LOGGING DRILLING RATE AND DATA <input checked="" type="checkbox"/> FT/HR <input type="checkbox"/> MIN/FT VISUAL POROSITY CO. FAIR TR CORE TEST	DEPTH LITHOLOGY	OIL TRACE GD. TRACE FAIR GOOD V. GOOD	DRILLING MUD				CUTTINGS		REMARKS AND LITHOLOGY DESCRIPTION
			CONTINUOUS DITCH GAS		CHROMATOGRAPHIC ANALYSIS		GAS		
			OIL IN MUD TR. X FAIR XX GD. XXX	TOTAL GAS (BACKUP SCALE - 10X) PETROL VAP	METHANE ETHANE PROPANE	BUTANES PENTANES M 1000	TOTAL GAS (BACKUP SCALE - 10X) PETROL VAP		
400 300 200 100			20 40 60 80 100	CO ₂ 100	1M 10M 40M	20 40 60 80 100			
3900				1				w 10.9 v 47	
0004				1				SAND, FINE-COURSE, SUBROUNDED, QUARTZ, SILTSTONE, LIGHT GREY FOSSILIFEROUS, TRACE PYRITE.	
0017				1				SILTSTONE, DARK BROWN, SOFT TO FIRM, CLAYEY, SAND, VERY FINE TO MEDIUM GRAIN FRAGMENTS LIGHT GREY SANDSTONE, CALCAREOUS	
4200				1				w 11.0 v 45	
4300				1				SILTSTONE AND SAND AS ABOVE, WITH ABUNDANT DARK BROWN, VERY SMALL NODULES, HARD.	

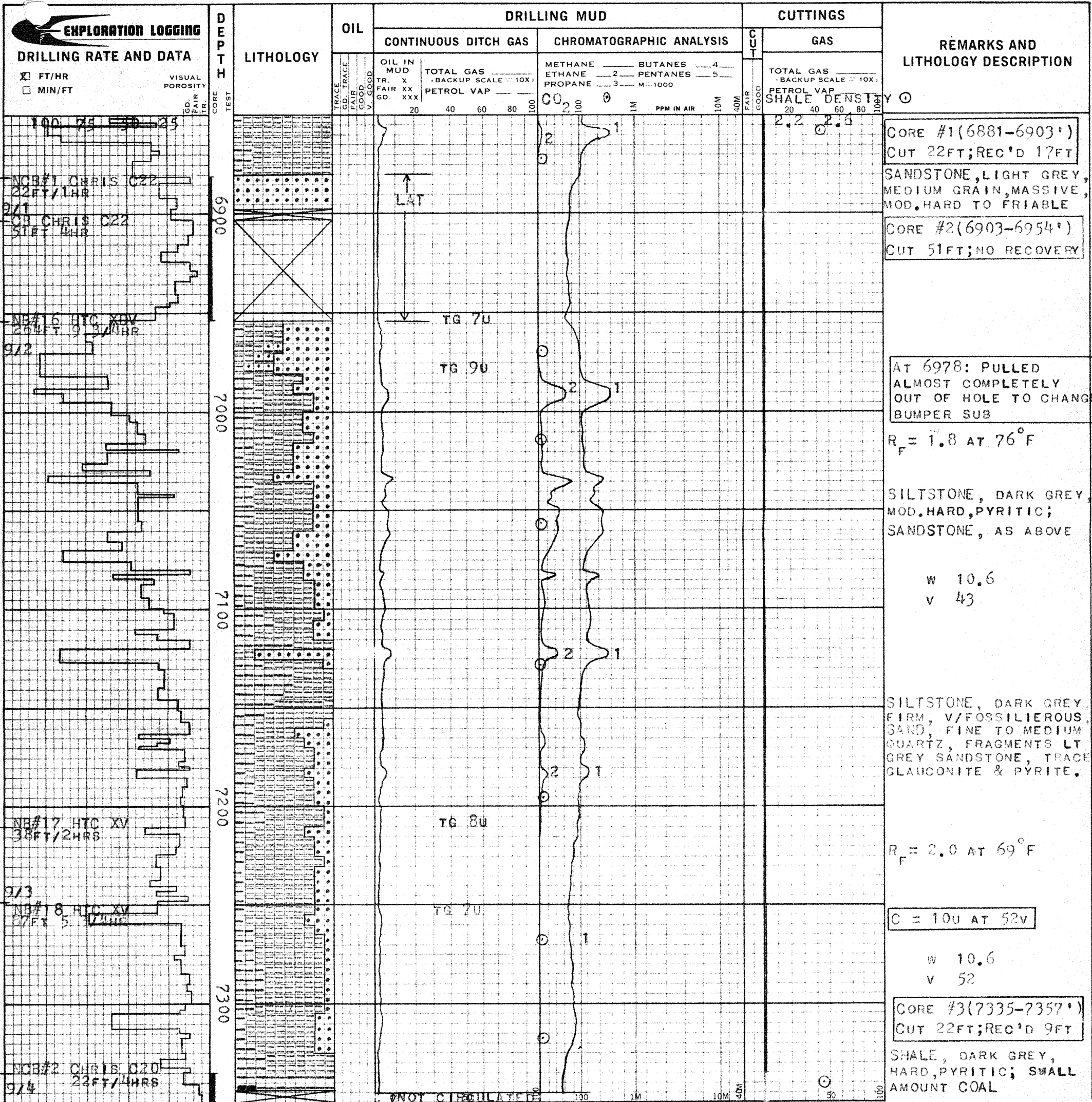
EXPLORATION LOGGING DRILLING RATE AND DATA <input checked="" type="checkbox"/> FT/HR <input type="checkbox"/> MIN/FT VISUAL POROSITY CORE TEST G.D. FAIR TR. G.D. FAIR TR. G.D. FAIR TR.	DEPTH LITHOLOGY	OIL TRACE G.D. TRACE FAIR GOOD V. GOOD	DRILLING MUD		CUTTINGS	REMARKS AND LITHOLOGY DESCRIPTION	
			CONTINUOUS DITCH GAS	CHROMATOGRAPHIC ANALYSIS			GAS
			OIL IN MUD TR. X FAIR XX GD. XXX	TOTAL GAS BACKUP SCALE = 10X PETROL VAP			METHANE ETHANE PROPANE
400 300 200 100 8726 MB76 SEC 5/4 298 FT / 5 1/2 HRS 1377 SEC 5/4 245 FT 5 HR	0047 0050 0057 0060 0067 0070 0077 0080		20 40 60 80 100 20 40 60 80 100 1M PPM IN AIR 10M 40M	1M PPM IN AIR 10M 40M 20 40 60 80 100	SAND, VERY FINE TO MEDIUM GRAIN, POOR SORTING, PREDOMINATE CLEAR TO FROSTED QUARTZ. W 10.9 V 44 SAND, VERY FINE TO FINE GRAIN, WITH ABUNDANT PYRITE AGGREGATES. W 10.8 V 43 SANDSTONE, LIGHT GREY FINE-MEDIUM, WELL SORTED, HARD, TIGHT SILTSTONE, DARK GREY, SOFT-FIRM, PYRITIC; VERY SANDY; SAND, LIGHT GREY, FINE-MEDIUM W 10.8 V 47		

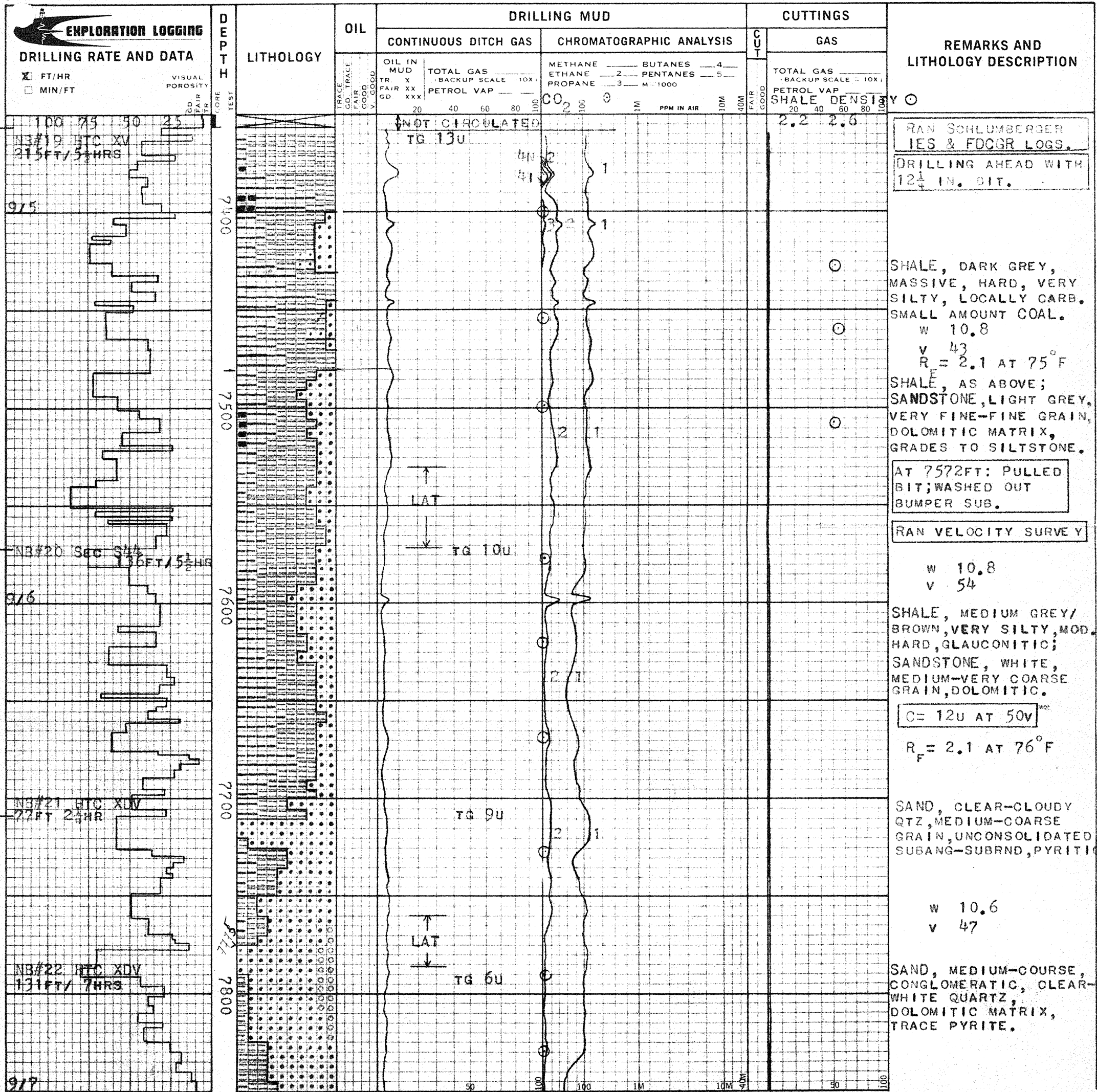














DRILLING RATE AND DATA

FT/HR
MIN/FT

VISUAL POROSITY

GD. FAIR TR.
CORE TEST

DEPTH

LITHOLOGY

OIL

TRACE
GD. TRACE
FAIR
GOOD
V. GOOD

CONTINUOUS DITCH GAS

OIL IN MUD
TR. X
FAIR XX
GD. XXX

TOTAL GAS
BACKUP SCALE 10X
PETROL VAP

DRILLING MUD

CHROMATOGRAPHIC ANALYSIS

METHANE
ETHANE
PROPANE

BUTANES
PENTANES
M. 1000

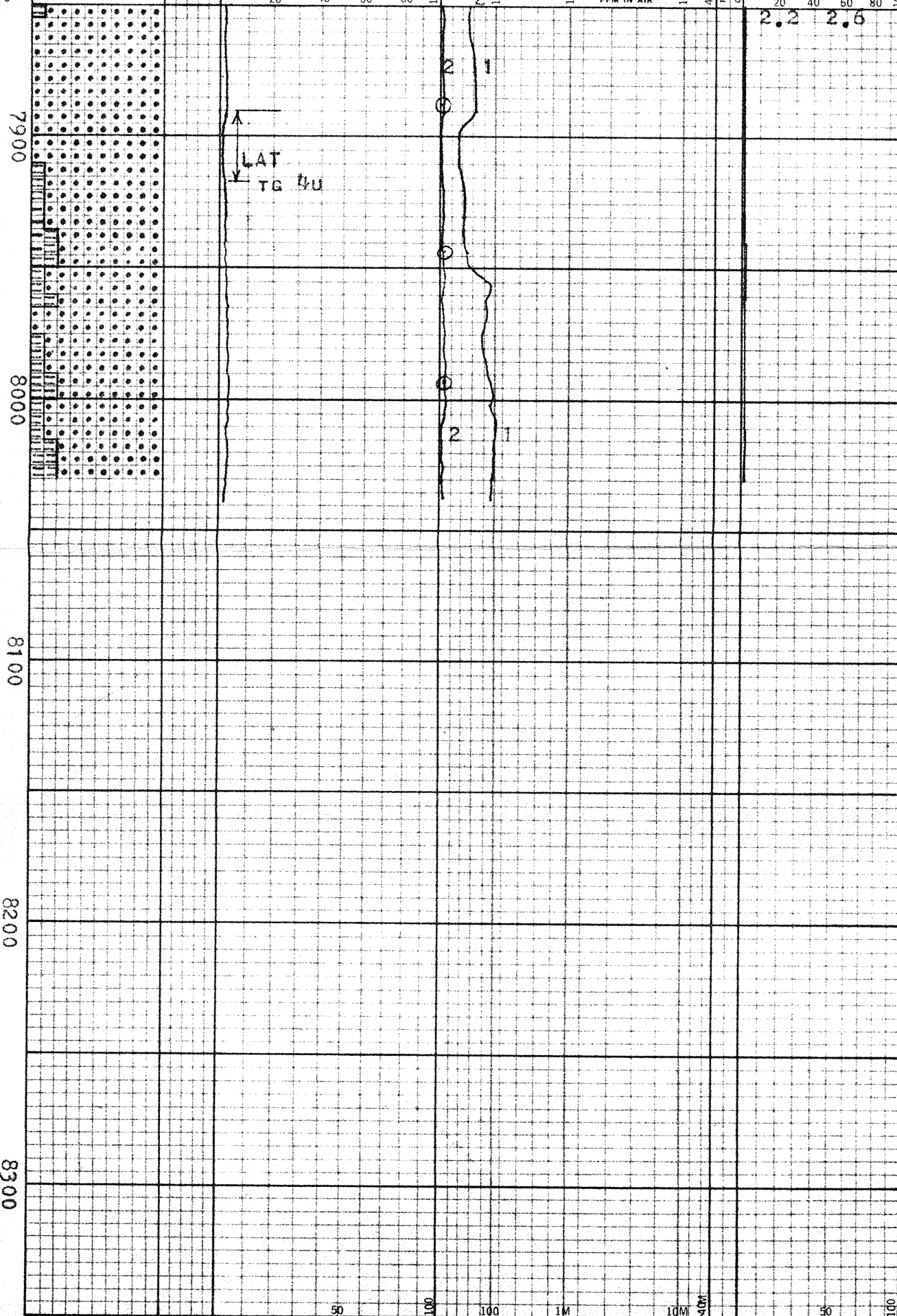
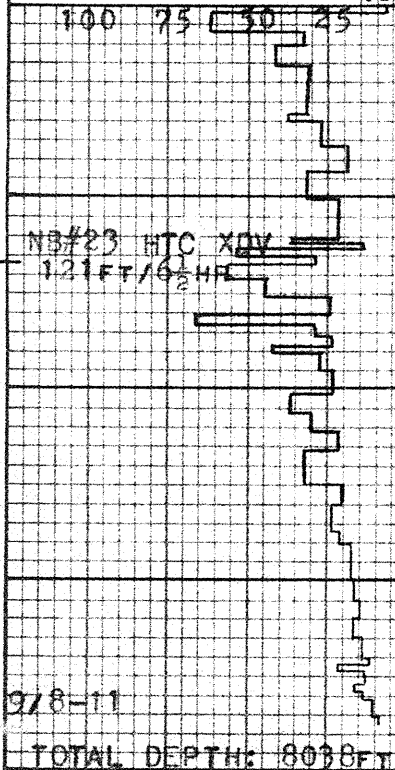
CUTTINGS

GAS

TOTAL GAS
BACKUP SCALE 10X
PETROL VAP

SHALE DENSITY

REMARKS AND LITHOLOGY DESCRIPTION



2.2 2.6

$R_F = 2.1$ AT $72^\circ F$

SANDSTONE, CLEAR TO CLOUDY, FINE-PEBBLE SIZE, FIRM, CALCAREOUS MATRIX; TRACE RED QTZ.

W 10.7
V 53

$R_F = 2.1$ AT $74^\circ F$

TWISTED OFF. LEFT 520FT DRILL ASSEMBLY IN HOLE.

FISHED FOR 3 DAYS; OPERATION UNSUCCESSFUL. HOLE ABANDONED.

RAN SCHLUMBERGER IES, DIPMETER, SONIC, GAMMA RAY DENSITY, CST AT 7500'

