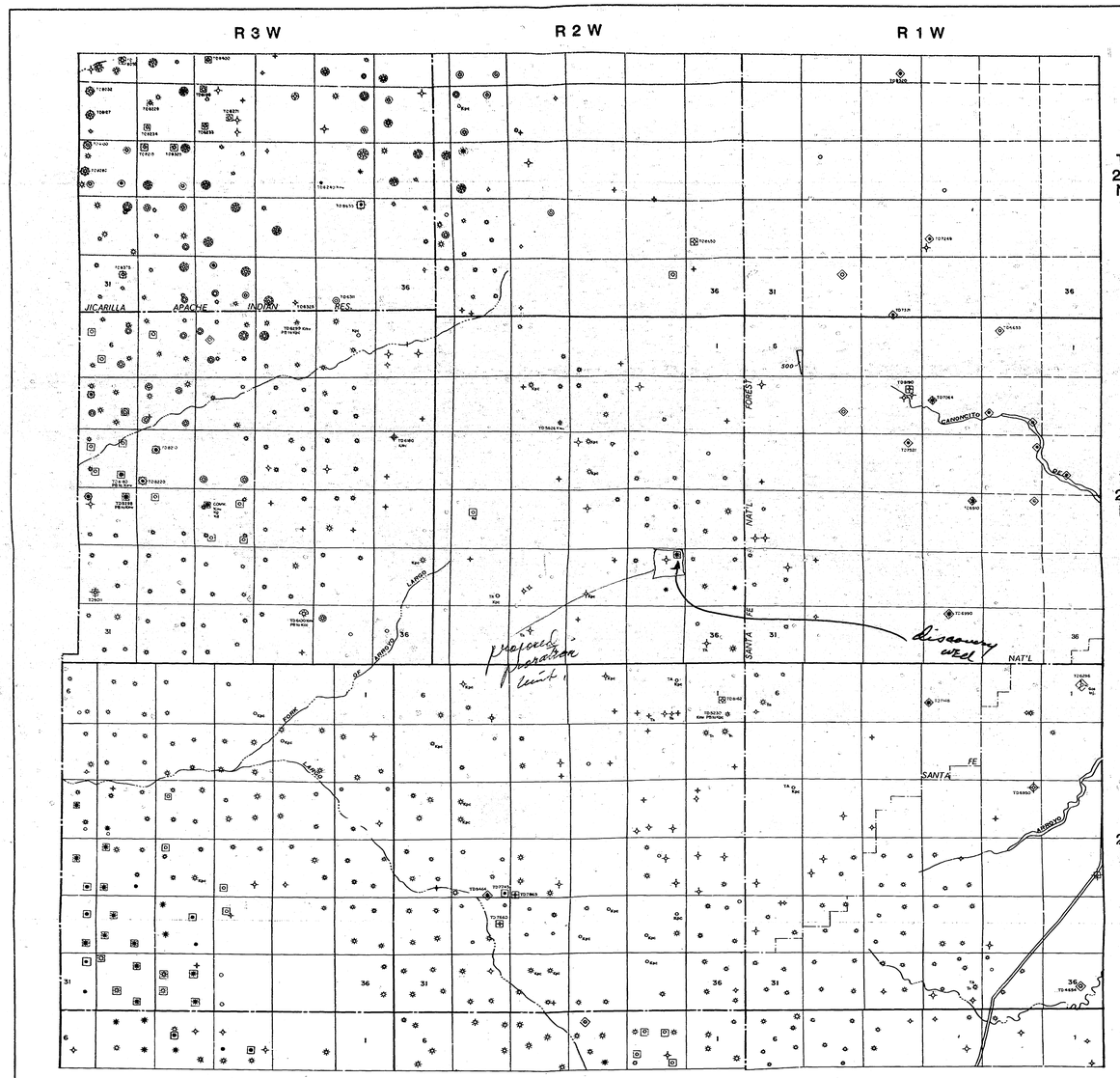
Case No
7562

Large Exhibits

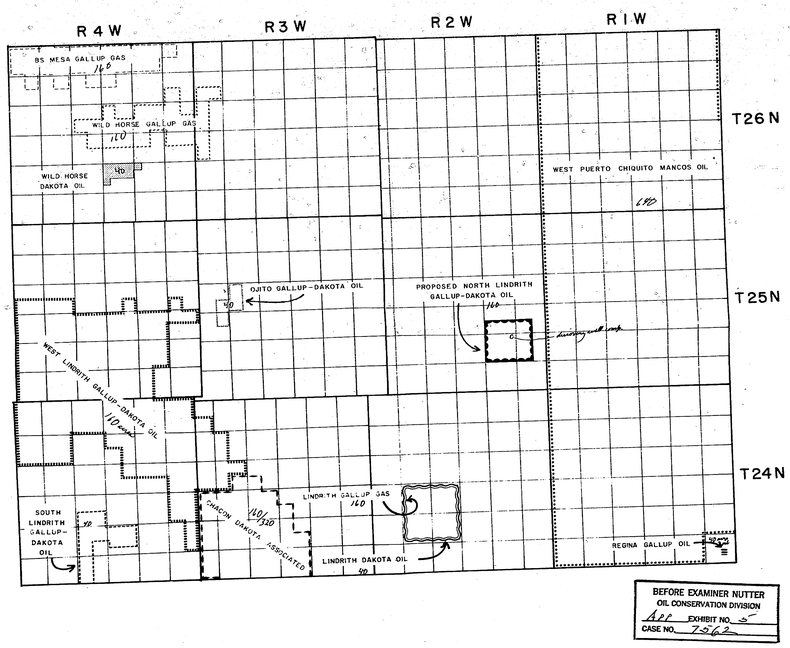


NORTHWEST EXPLORATION COMPANY

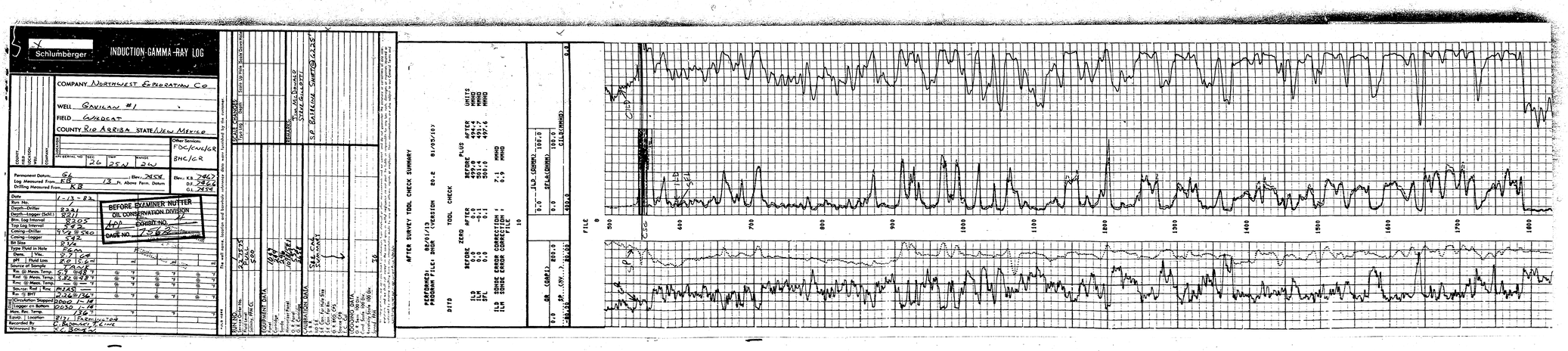
GAVILAN PROSPECT

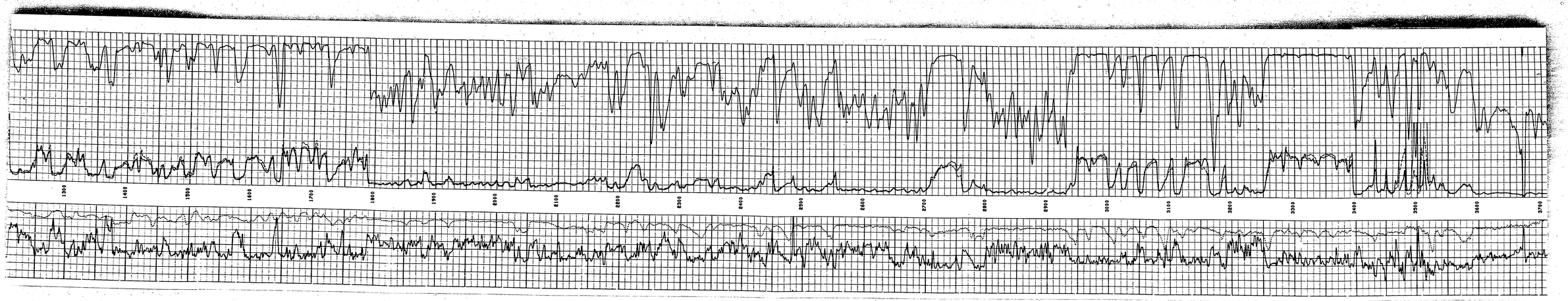
RIO ARRIBA CO., NEW MEXICO

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Apr EXHIBIT NO. 1
CASE NO. 7562



BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
APC EXHIBIT NO. 5
CASE NO. 7562


Schlumberger
INDUCTION-GAMMA-RAY LOG
COMPANY NORTHWEST EXPLORATION CO
WELL GAVILAN #1
FIELD WILDCAT
COUNTY RIO ARRIBA STATE NEW MEXICO
Other Services: FDC/CNL/GR BHC/GR
Permanent Datum: GL Elev. 7458
Log Measured From: KB 13 Ft. Above Perm. Datum
Drilling Measured From: KB
Elev. K.B. 7471
D.F. 7470
G.L. 7458
Date 1-13-82
Run No. ONE
Depth—Driller 8231
Depth—Logger (Schl.) 8211
Btm. Log Interval 8205
Top Log Interval 542
Casing—Driller 9 5/8 @ 520
Casing—Logger 532
Bit Size 8 3/4
Type Fluid in Hole GEL-CHEM
Dens. | Visc. 9.1 | 58
pH | Fluid Loss 9.0 | 5.6 cc
Source of Sample FLOWLINE
Rm @ Meas. Temp. .57 @ 68 °F
Rmf @ Meas. Temp. .382 @ 68 °F
Rmc @ Meas. Temp. — @ — °F
Source: Rmf | Rmc MEASURED | —
Rm @ BHT .236 @ 136 °F
Time Circulation Stopped 2100 1-12
Time Logger on Bottom 0030 1-13
Max. Rec. Temp. 136 °F
Equip. | Location 8171 | FARMINGTON
Recorded By C. BROMLEY/C. LINE
Witnessed By CARTER
BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 2
CASE NO. 7568
RUN NO. ONE
BOREHOLE RECORD
CASING RECORD
LOGGING DATA
Tom McDonald
Steve Gilbert
S.P. BATTEN SHIRT@12:35
AFTER SURVEY TOOL CHECK SUMMARY
PERFORMED: 82/01/13
PROGRAM FILE: BHC8-2 VERSION 89.2 01/05/03
TOOL CHECK
ZERO BEFORE AFTER
ILD 0.0 0.0
ILM 0.0 -0.1
SFL 0.0 0.0
ILD SONDE ERROR CORRECTION = 7.1 MMHO
ILM SONDE ERROR CORRECTION = 0.9 MMHO
PLUS BEFORE AFTER UNITS
499.4 494.4 MMHO
499.4 493.3 MMHO
501.4 497.6 MMHO
FILE 8
ILD (COND) 100.0
SFL(COND) 100.0
GR (GAPI) 200.0
SP (MV) -80.0
500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800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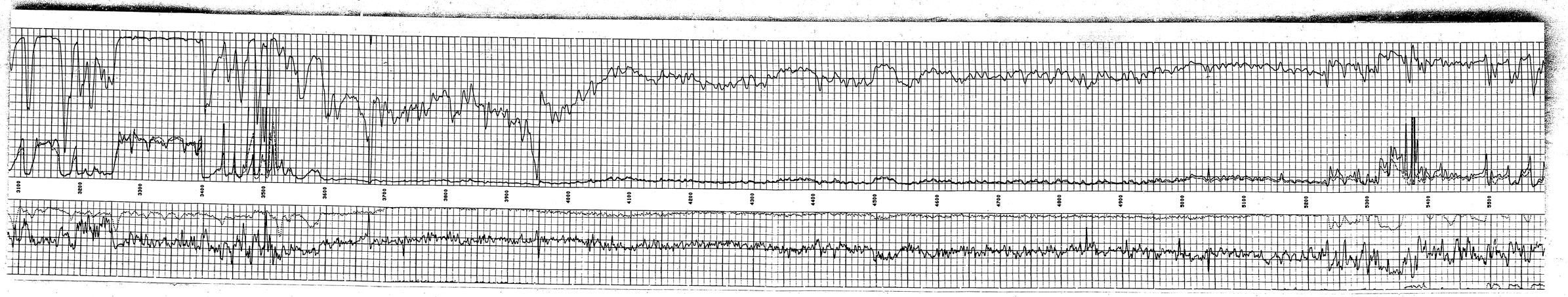
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700


3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
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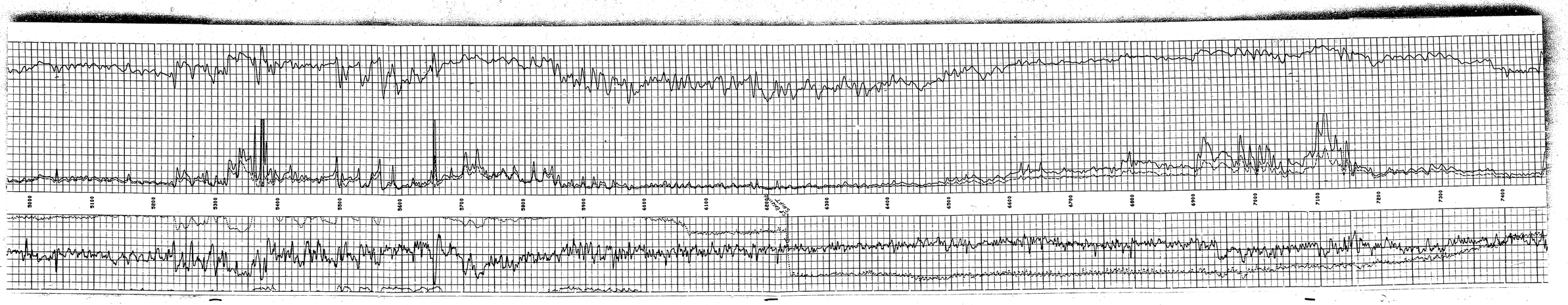
4700
4800
4900
5000
5100
5200
5300
5400
5500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5200
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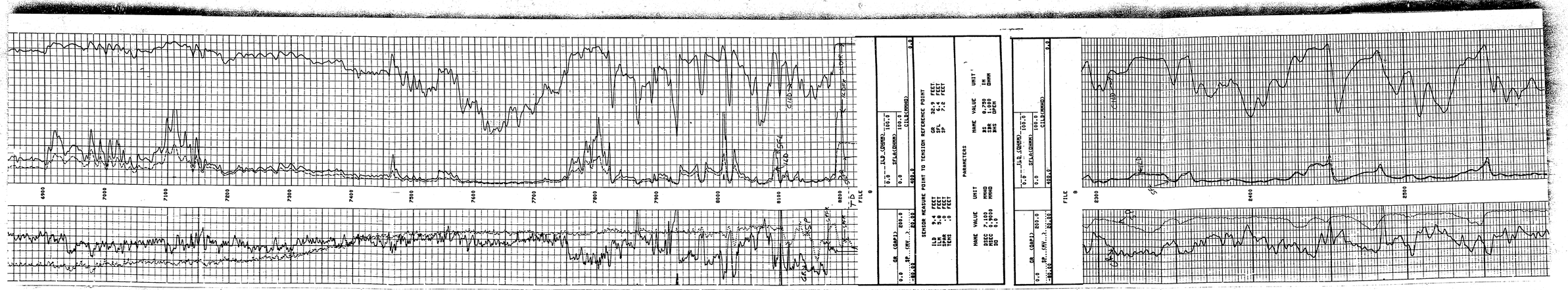
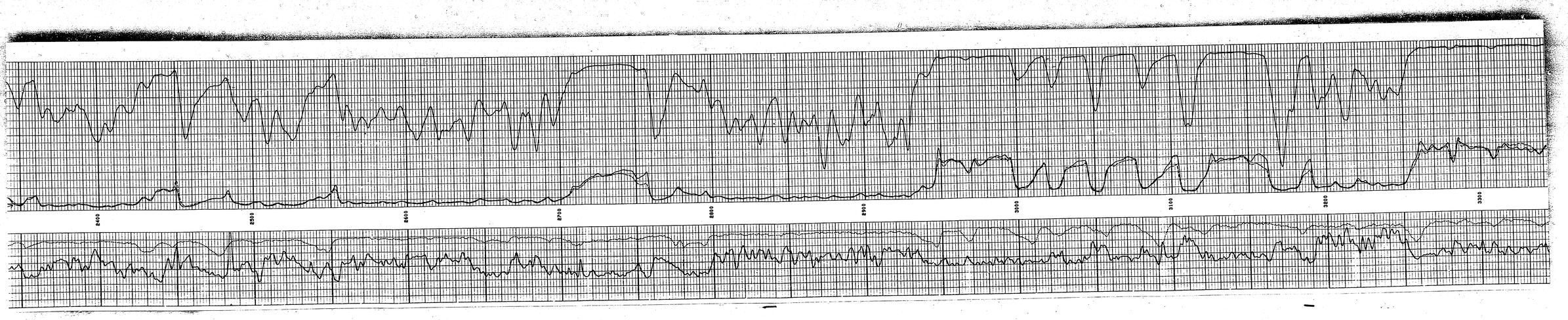
7200
7300
7400


6900
7000
7100
7200
7300
7400
7500
7600
7700
7800
7900
8000
8100
8200
FILE
0
SENSOR MEASURE POINT TO TENSION REFERENCE POINT
PARAMETERS
8300
8400
8500
FILE
0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8900
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3200
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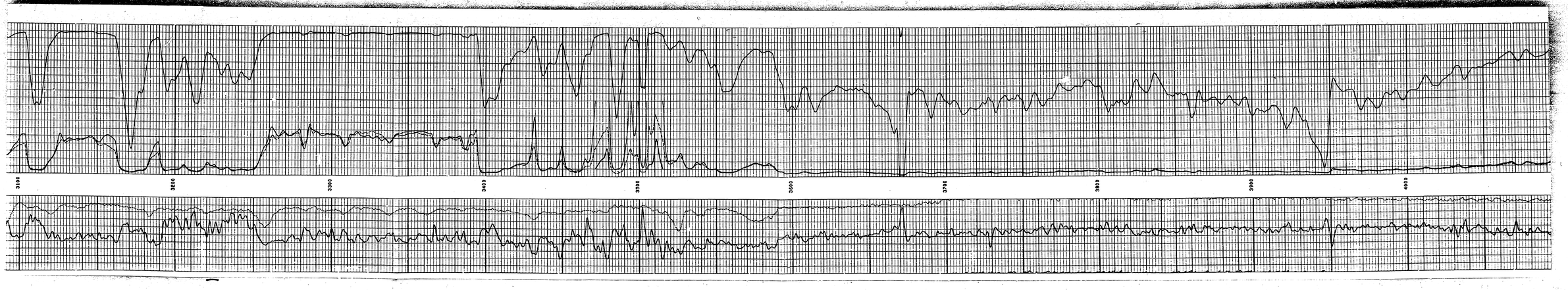
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4000

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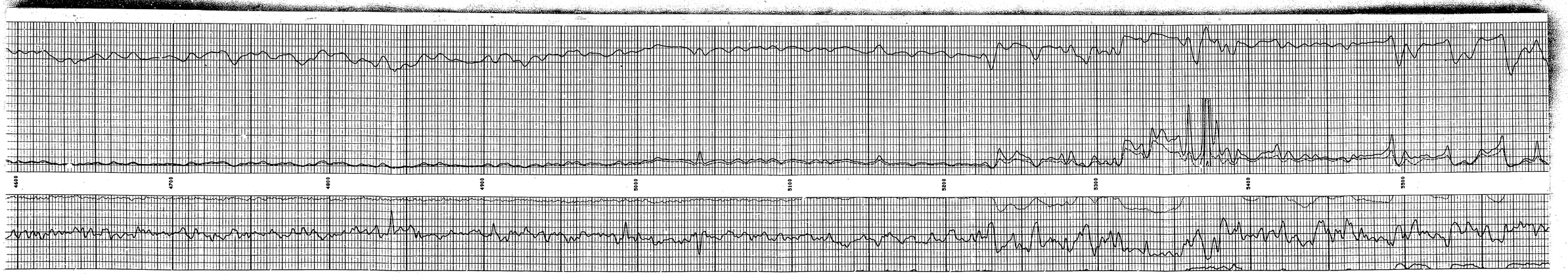
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5000
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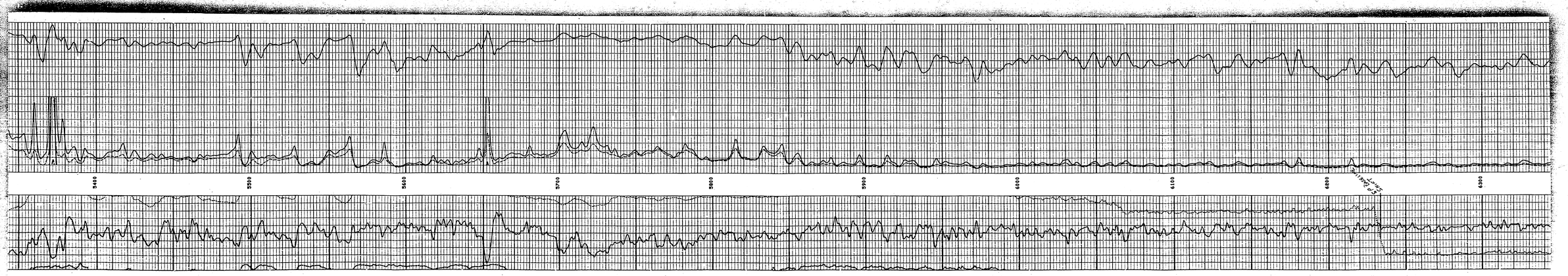
5500


5400
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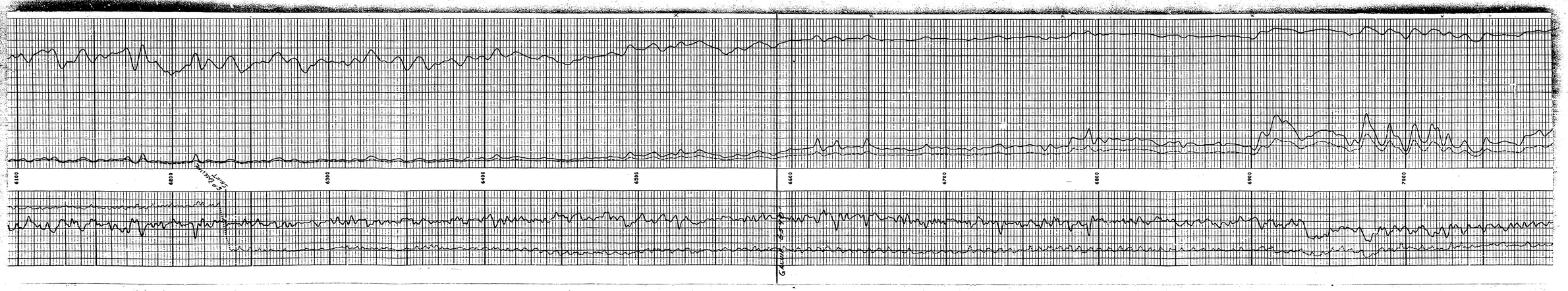
5700
5800
5900
6000
6100
6200
6300
SEE DRILLER'S CHART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6200
6300
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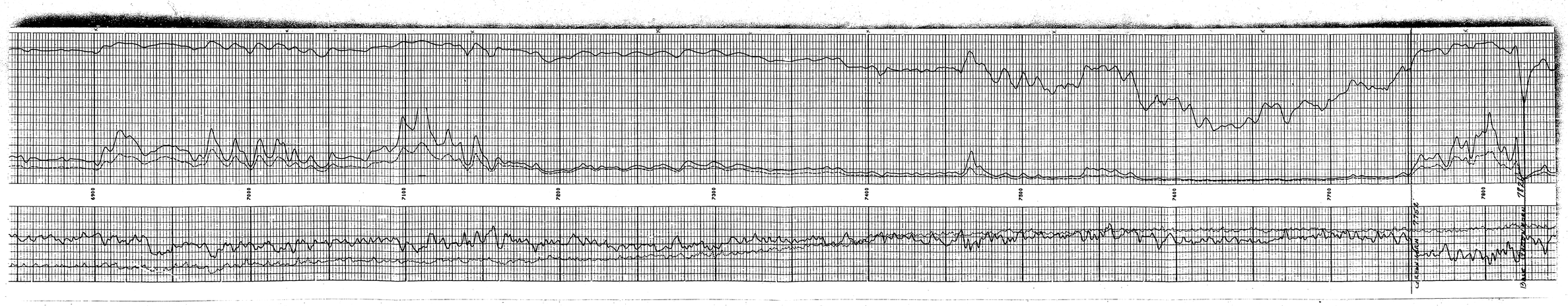
6500
6600
6700
6800
6900
7000


6900
7000
7100
7200
7300
7400
7500
7600
7700
7800

7600
7700
7800
7900
8000
8100
8200
FILE
0
ILD (OHMM) 100.0
0.0
SFLA(OHMM) 100.0
0.0
CILD(MMHO) 0.0
400.0
GR (GAPI) 600.0
0.0
SP...(MV)...100.00
SENSOR MEASURE POINT TO TENSION REFERENCE POINT
ILD 8.4 FEET
SFLA 8.4 FEET
SPAR .0 FEET
TENS .0 FEET
PARAMETERS
NAME VALUE UNIT
DSEC 7.100 MMHO
MSEC 0.9000 MMHO
DD 0.0
NAME VALUE UNIT
GR 32.9 FEET
SFL 7.2 FEET
SP
BS 8.750 IN
SBR 1.000 OHMM
BMS OPEN
REPEAT SECTION
FILE
7

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

A	0	FEET	GR	38.9	FEET
ILM	8.8	FEET	SFL	6.4	FEET
ILD	1.0	FEET	SP	7.8	FEET
TENS	.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
DSEC	7.100	MMHO	BS	8.750	IN
MSEC	0.9000	MMHO	SHK	0.000	OHMM
RD	0.0		SHS	DEPO	

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 82/01/13
PROGRAM FILE: SHGR (VERSION 20.8 81/05/10)

DITD

ELECTRONICS CALIBRATION SUMMARY

	MEASURED ZERO	MEASURED PLUS	CALIBRATED ZERO	CALIBRATED PLUS	UNITS
ILM	4.9	518.0	0.0	501.4	MMHO
SFL	1.8	531.0	0.0	500.0	MMHO

ILD SONDE ERROR CORRECTION : 2.1 MMHO
ILM SONDE ERROR CORRECTION : 0.9 MMHO

SDTE

DETECTOR CALIBRATION SUMMARY

	MEASURED RHOB	MEASURED DRHO	CALIBRATED	UNITS GAPI
GR	2.6	224	140	

FILE 6

PERFORMED: 82/01/07 81/ 1/30)
PROGRAM FILE: SHGP (VERSION 20.2

DITD

ELECTRONICS CALIBRATION SUMMARY

	MEASURED ZERO	MEASURED PLUS	CALIBRATED ZERO	CALIBRATED PLUS	TOOL CHECK	UNITS
ILD	4.9	518.0	0.0	500.0	499.5	MMHO
ILM	1.8	531.0	0.0	500.0	501.5	MMHO

ILD SONDE ERROR CORRECTION : 0.0 MMHO
ILM SONDE ERROR CORRECTION : 0.9 MMHO

(IS1296 , IC1849)
FILE
23447