UGR File L 84

Schlumberger

DUAL INDUCTION-LATEROLOG WITH LINEAR CORRELATION LOG

COUNTY
FIELD or LOCATION
WELL
COMPANY

COMPANY NORTHERN ILLINOIS GAS COMPANY

FILE COPY

WELL MAK #1
FIELD WILDCAT
COUNTY TAZEWELL STATE ILLINOIS

Location. 110'S & 150'W NE/C NW/4 API Serial No.
Sec. 8 Twp. 23N Rge. 2W

Other Services:
CNL-FDC-GR
BHC-GR
MLL

Permanent Datum: GL ; Elev.: 641.0
Log Measured From GL , 0 Ft. Above Perm. Datum
Drilling Measured From GL

Elev.: K.B. -
D.F. -
G.L. 641

Date	8-21-77			
Run No.	ONE			
Depth—Driller	1500			
Depth—Logger	1494			
Btm. Log Interval	1488			
Top Log Interval	345			
Casing—Driller	7 @ 373	@	@	@
Casing—Logger	373			
Bit Size	6 1/4			
Type Fluid in Hole	LOW SOLIDS			
Fluid Level				
Dens. | Visc.	9.3 | 36	|	|	|
pH | Fluid Loss	8.5 | 24 ml	| ml	| ml	| ml
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	2.03 @ 74 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.85 @ 74 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ - °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | -	|	|	|
Rm @ BHT	2.04 @ 71 °F	@ °F	@ °F	@ °F
Time Since Circ.	-			
Max. Rec. Temp.	71 °F	°F	°F	°F
Equip. | Location	7642 | MT. VERNON	|	|	|
Recorded By	LANGTON			
Witnessed By	PAT BARLOW			

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

Date | Sample No.		
Depth - Driller		
Type Fluid in Hole		
Dens. | Visc.		
ph | Fluid Loss	ml	ml
Source of Sample		
Rm @ Meas. Temp.	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F
Source: Rmf | Rmc		
Rm @ BHT	@ °F	@ °F
Rmf @ BHT	@ °F	@ °F
Rmc @ BHT	@ °F	@ °F

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Run No.	ONE			
Panel No.	DIP-DD 497			
Cart. No.	MIH-W 350			
Sonde No.	DIS-EA 43			
Mem. Panel No.	ILP-CB 475			
G.R. Cart No.				
G.R. Panel No.				
TTR No.				
Cent. Device				
Stand off - Inches				
Time Const. - Sec.				
Speed - F.P.M.				

REMARKS

Service Order No. - 06646

☐ Surface determined sonde errors used for 6FF40.
☐ 6FF40 sonde error corrected for inch borehole signal at Rm =
☐ 6FF40 zero set in hole at depth of feet.

CALIBRATION DATA

CALIBRATION:	BACKGND. CPS.	SOURCE CPS.	GALV. INCR. DIVISION	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.
GAMMA RAY:						

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS-POTENTIAL
MILLIVOLTS

15
— |⟷| +

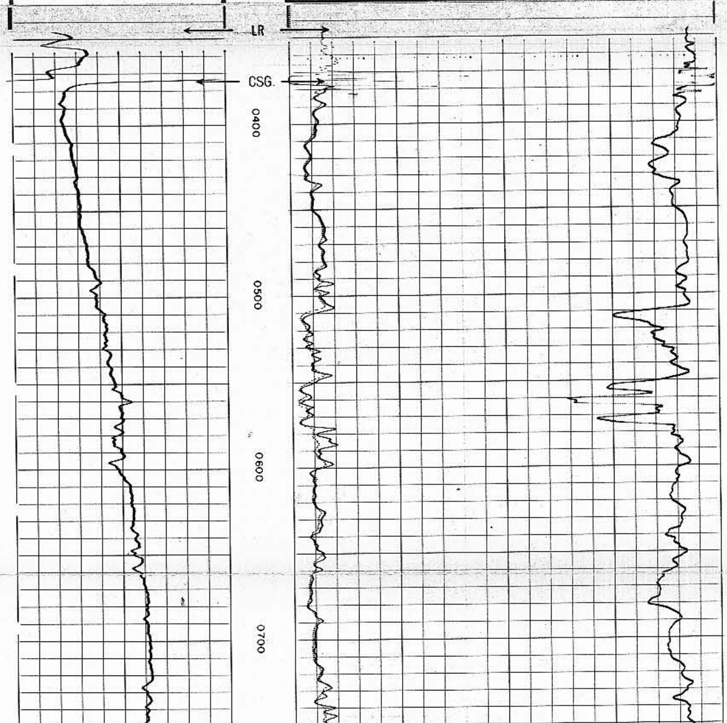
CONDUCTIVITY
MILLIMHOS/M = $\frac{1000}{\text{OHMS. } M^2/M}$

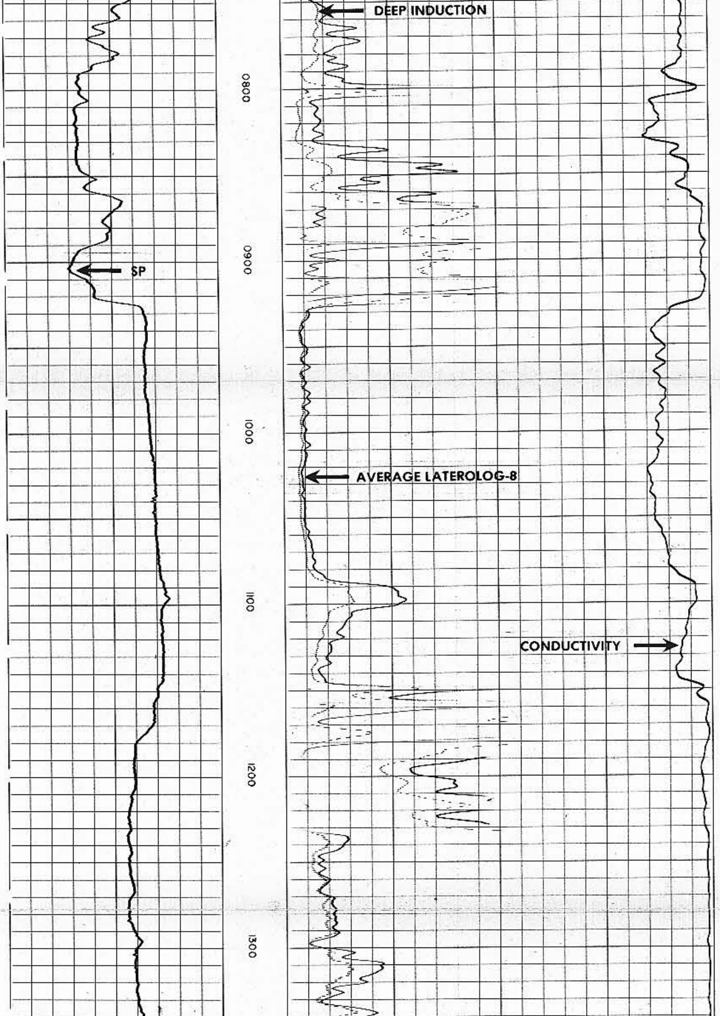
DEEP INDUCTION LOG
1000 500 0

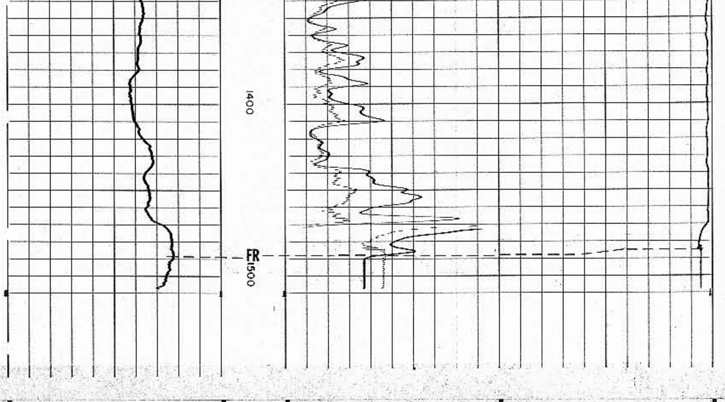
RESISTIVITY
OHMS. M^2/M

DEEP INDUCTION LOG
0 100
0 1000

AVERAGED LATEROLOG - 8
0 100
0 1000







DEEP INDUCTION LOG

0 100

0 1000

AVERAGED LATEROLOG 8_1

0 100

0 1000

RESISTIVITY
ohms – m^2/m

DEEP INDUCTION LOG

1000 500 0

15
– |↔| +

SPONTANEOUS-POTENTIAL
millivolts

DEPTHS

CONDUCTIVITY
millimhos/m = $\frac{1000}{\text{ohms} - m^2/m}$

COMPANY NORTHERN ILLINOIS GAS COMPANY

WELL MAK #1

FIELD WILDCAT

COUNTY TAZEWELL STATE ILLINOIS

SCHL. FR 1488

SCHL. TD 1494

DRLR TD 1500

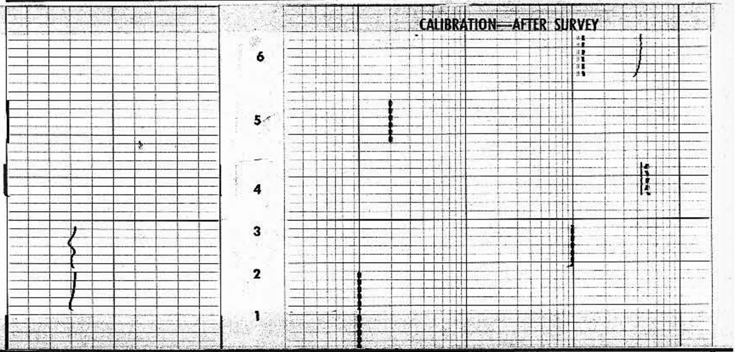
Elev:

KB -

DF -

GL 641

CALIBRATION DATA



SPONTANEOUS POTENTIAL

$-|\overset{15}{\longleftrightarrow}|+$ MILLIVOLTS

RESISTIVITY OHMS. M^2/M

DEEP INDUCTION LOG

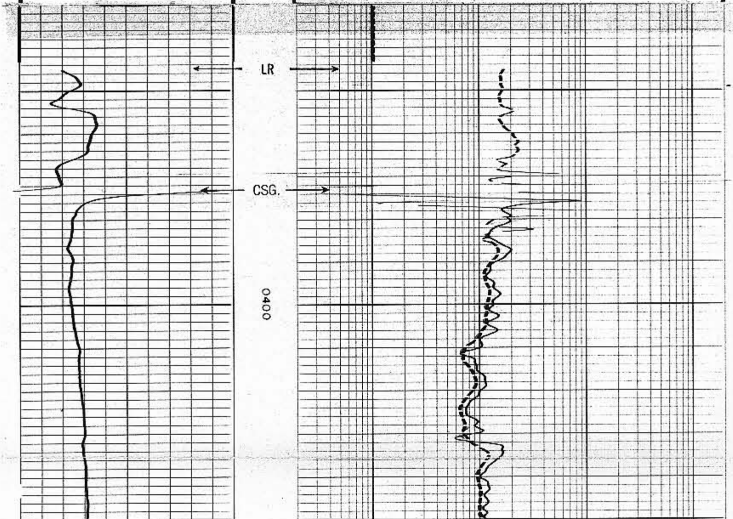
0.2 1.0 10 100 1000 2000

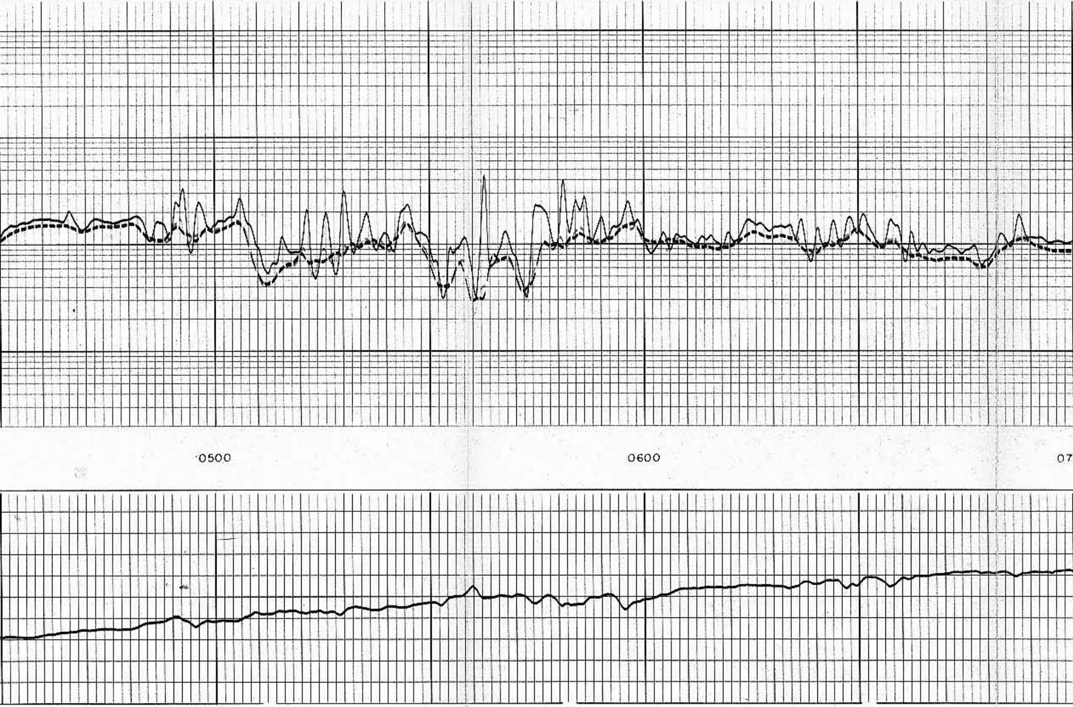
MEDIUM INDUCTION LOG

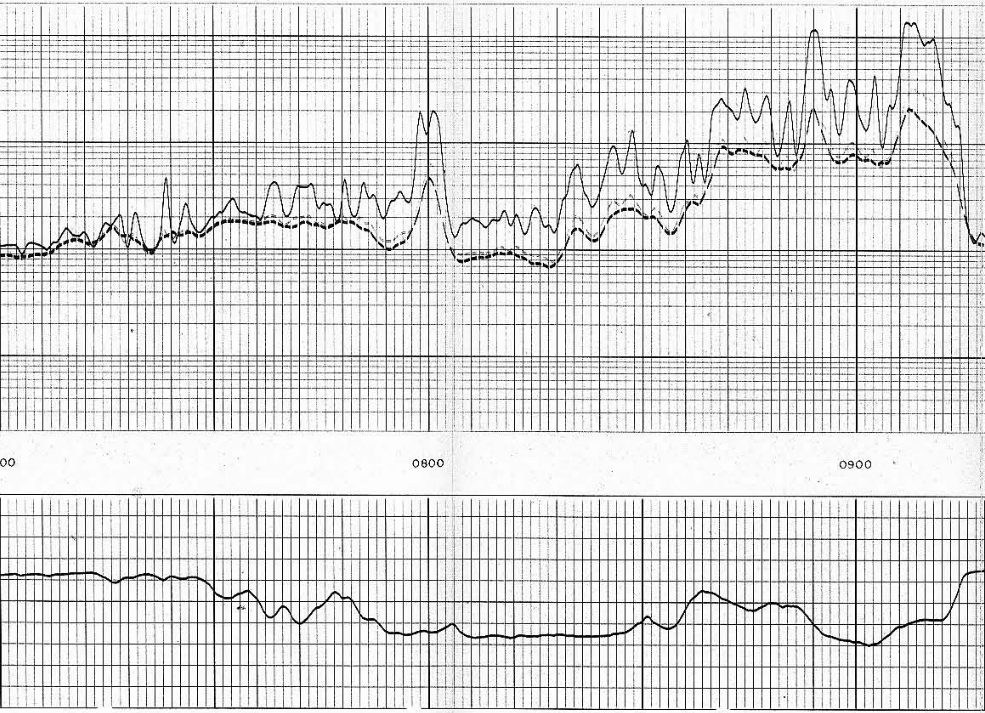
0.2 1.0 10 100 1000 2000

LATEROLOG — 8

0.2 1.0 10 100 1000 2000







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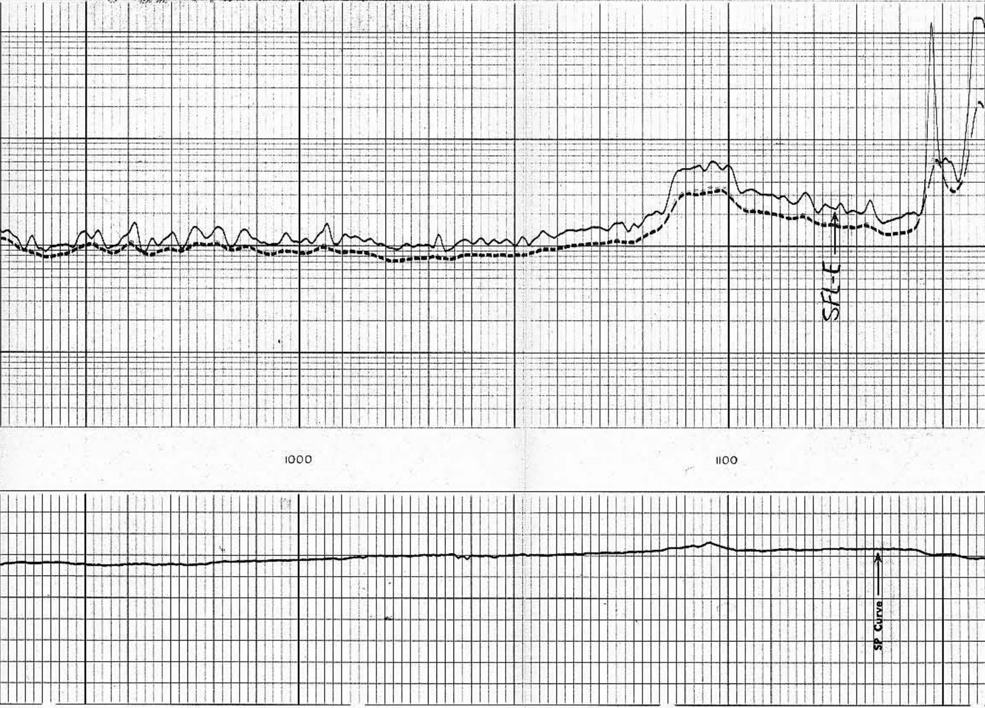
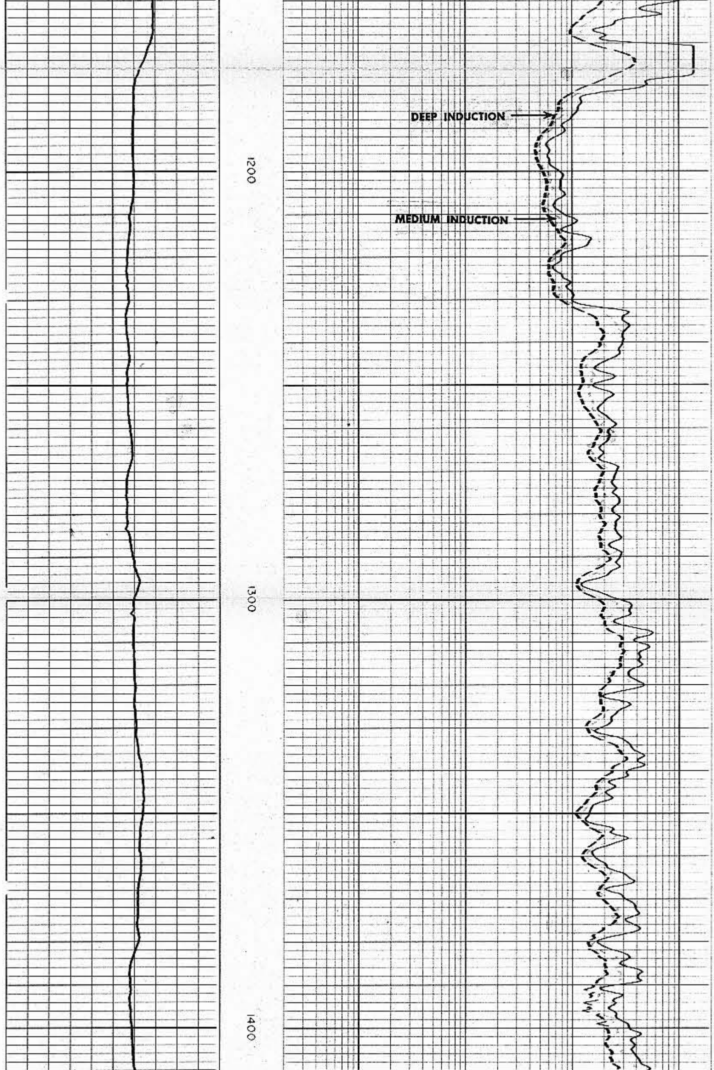
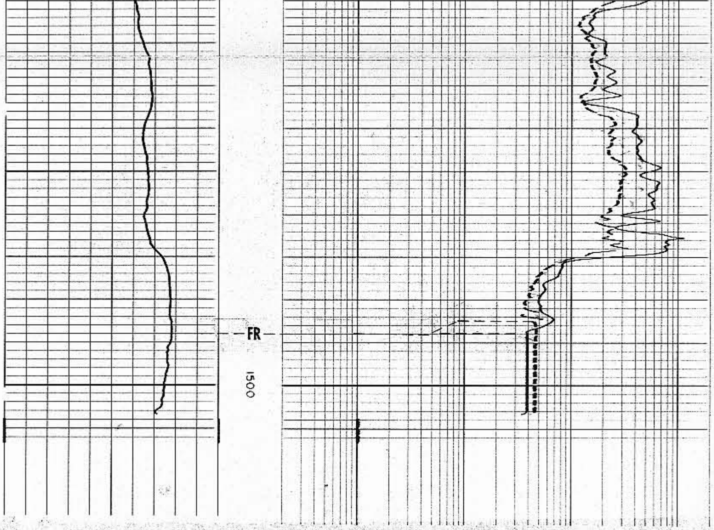


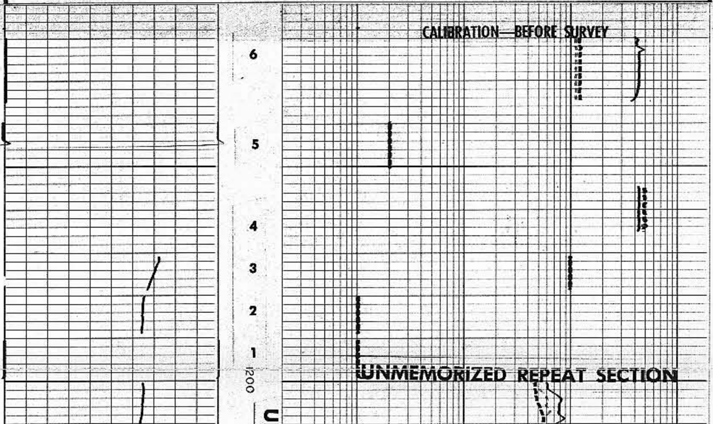


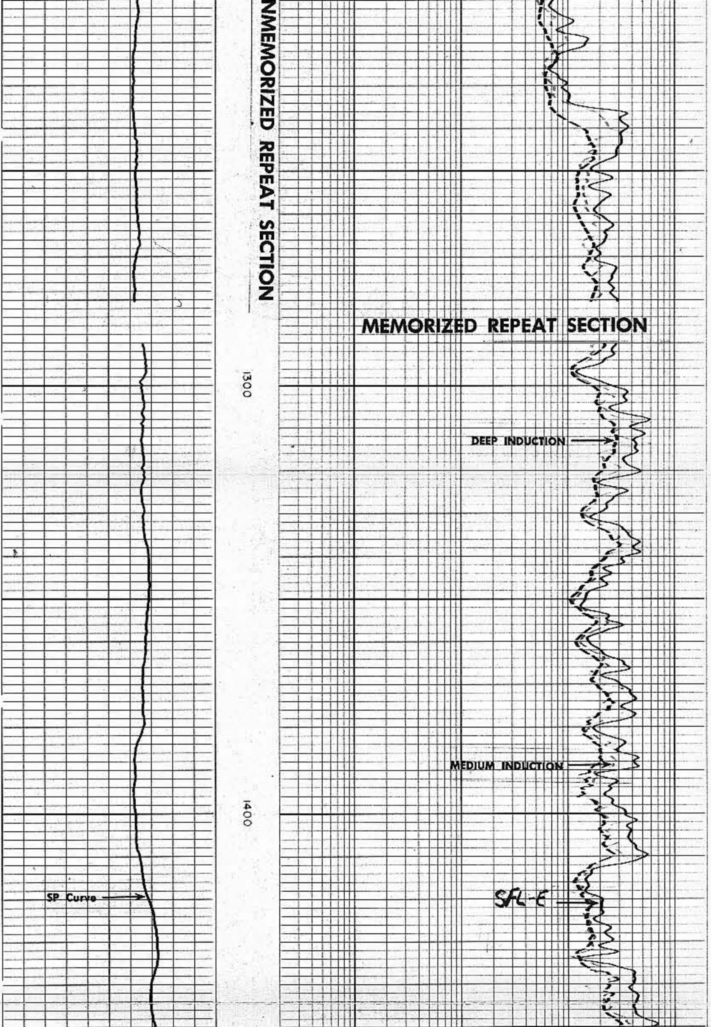


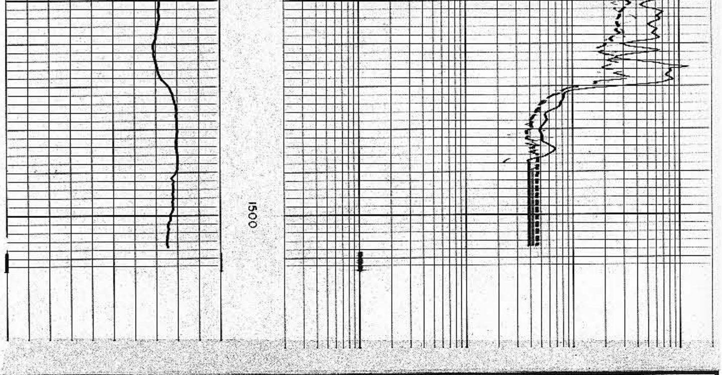
COMPANY NORTHERN ILLINOIS GAS COMPANY
WELL MAK #1
FIELD WILDCAT
COUNTY TAZEWELL STATE ILLINOIS

SCHL. FR 1488
SCHL. TD 1494
DRLR TD 1500
Elev:
KB -
DF -
GL 641

CALIBRATION DATA







DIL/SONIC CALIBRATION CODING

	DIL	SONIC
1.	MECHANICAL ZERO	MECHANICAL ZERO
2.	1 ohm-m	60 μ sec
3.	100 ohm-m	80 μ sec
4.	500 ohm-m	100 μ sec
5.	2 ohm-m	140 μ sec
6.	SONDE ERROR	