021-139

Sunniland Quad

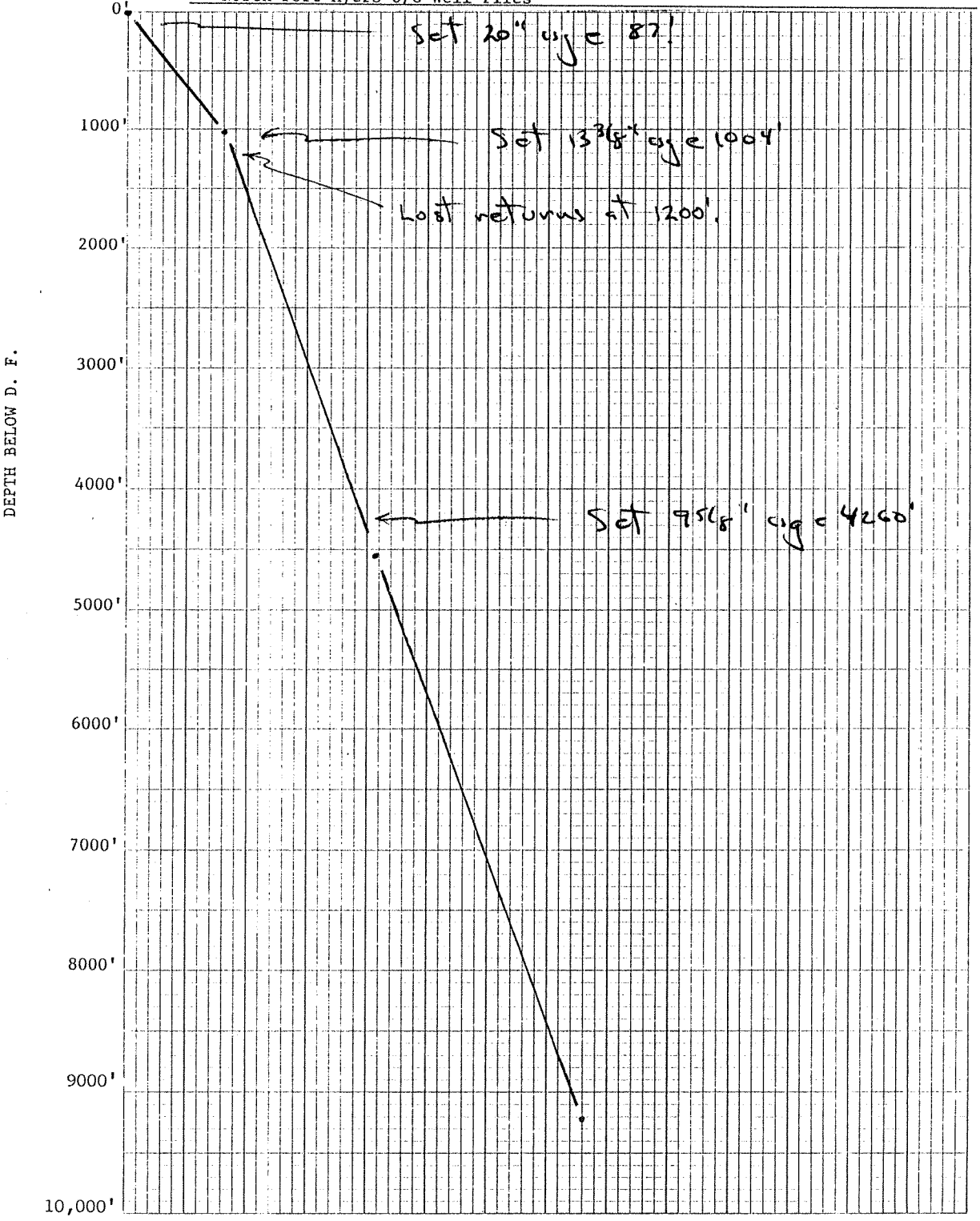
Well No. 102 [W-1916] Elevation G.L. 22.4' D.F. 33.0' K.B.

Location Center SESW County Collier

____ ¼ ____ ¼ ____ ¼ Sec. 18 T 48S R 30E TD 11,650'

Well or Owner's Name Exxon SWDS #1, Well #2 (Sunniland Field)

Data Source North Fort Myers O/G Well Files



#102, W-1916, Humble #14 Gulf Coast Realties
Center of SESW Sec. 18, T48S R30E
Collier County (Sunniland Quad)
GL 22', DF 33', Spud 1/31/66, Status SI SWDW

Brief lith log of washed cuttings by C.V. Cook 1994.

Depth	Description
0-500	Not logged.
500-520	White-v pale orange, silty, sandy, dolomitic Ls w/3-5% phos grs, common encrusting & cheilostome bryozoan & rexal mollusk frags; minor yellowish gray, vfg sucrosic Dol w/1% phos grs.
520-540	Vpo, silty, sandy, dol Ls w/1% phos grs, 10% yel gray, vfg sucrosic Dol, 10% pale olive Dolosilt, 5% clear, platy gypsum, rexal mollusk frags and 1% phos grns.
540-560	Wh, chalky, silty dol Ls w/≤1% phos grs, common rexal mollusks, rare Sorites.
560-580	Wh-vpo, silty, sandy, dol Ls w/1% phos grs, 10% clear-milky wh, med-v crse, subrnd Qz sand, minor clear, platy gypsum and 1% phos grns.
580-600	As above w/common mollusk frags and rare Qz sand.
600-620	Wh, chalky, sandy, dol Ls w/1% phos grs, 20% phos grns-pebbles, minor pale olive Dolosilt, minor Qz sand, common rexal mollusk frags.
620-640	Wh, silty, sandy, dol Ls w/1% phos grs, common cheilostome & encrusting bryozoan and 1% phos grns.
640-660	Ls as above, minor med gray, micritic Dol, 5% phos grns and cheilostome bryozoan.
660-680	Wh, silty, sl sandy, dol Ls w/<1% phos grs, abundant cheilostome & minor encrusting bryozoan, & 1% phos grns.
680-700	Wh, silty, fos, dol Ls, 10% yellowish gray, vfg sucrosic Dol w/<1% phos, 20% phos grs and grns, common mollusk and echinoid frags and cheilostome bryozoan.
700-740	Wh, chalky, fos, dol Ls, 5% yel gray, vfg sucrosic Dol w/1% phos.
740-760	Grayish orange, vfg-fg, xln Dol and 40% vpo-wh, silty, sl sandy, dol Ls; Dol and Ls with 1% gray and lt brn phos grs.
760-780	Wh, chalky, silty, sl sandy, dol Ls w/1% phos grs and 10% yel gray, vfg xln Dol w/1% phos grs.

Depth	Description
780-800	Wh-vpo, chalky, silty, sandy, dol Ls to dol Ss and rexal mollusk frags.
800-880	Wh-vpo, chalky, granular, part rexal, sl sandy Ls to dol Ss; rexal mollusk frags.
880-900	Wh-vpo, silty, sl sandy, dol Ls to dol Ss.
900-920	Ls and Ss as above; common rexal mollusk frags, some calcite crystals.
920-980	Vpo, sandy, rexal, granular, dol Ls w/miliolids (?), minor vpo, dol Ss and common rexal mollusk frags.
980-1020	Yel gray, vfg, xln, sandy, sl silty Dol w/1% phos grs; minor vpo, silty, sandy, dol Ls.
1020-1040	Yel gray-grayish orange, micritic, part rexal, sl dol Ls; rare phos grs.
1040-1060	Vpo, granular-micritic, part rexal, dol Ls.
1060-1080	Wh-vpo, silty, granular, part rexal, dol Ls.
1080-1100	Vpo, chalky, part rexal, fos, dol Ls and rare Lepidocyclina.
1100-1120	Vpo, chalky, part rexal, fos, dol Ls and common Lepidocyclina.
1120-1140	Ls as above and abundant Camerina.
1140-1160	Ls as above and abundant Lepidocyclina frags.
1160-1180	Ls as above and common Lepidocyclina.
1180-1200	Ls as above and common Camerina.
1200-1220	Ls as above; abundant Camerina and common Lepidocyclina.
1220-1280	Vpo, chalky, part rexal, fos, dol Ls; abundant Lepidocyclina.
1280-1320	Ls as above, some with Dol rhombs in matrix, abundant Camerina, common Leps and Heterostegina ocalana.
1320-1340	Vpo, silty, part rexal, dol Ls, minor vpo, granular, part rexal, fos, dol Ls, common Leps and Camerina.
1340-1360	Vpo, sl silty, sl micritic, part rexal, fos, dol Ls, minor grayish orange, fg xln Dol, common Leps and Camerina.

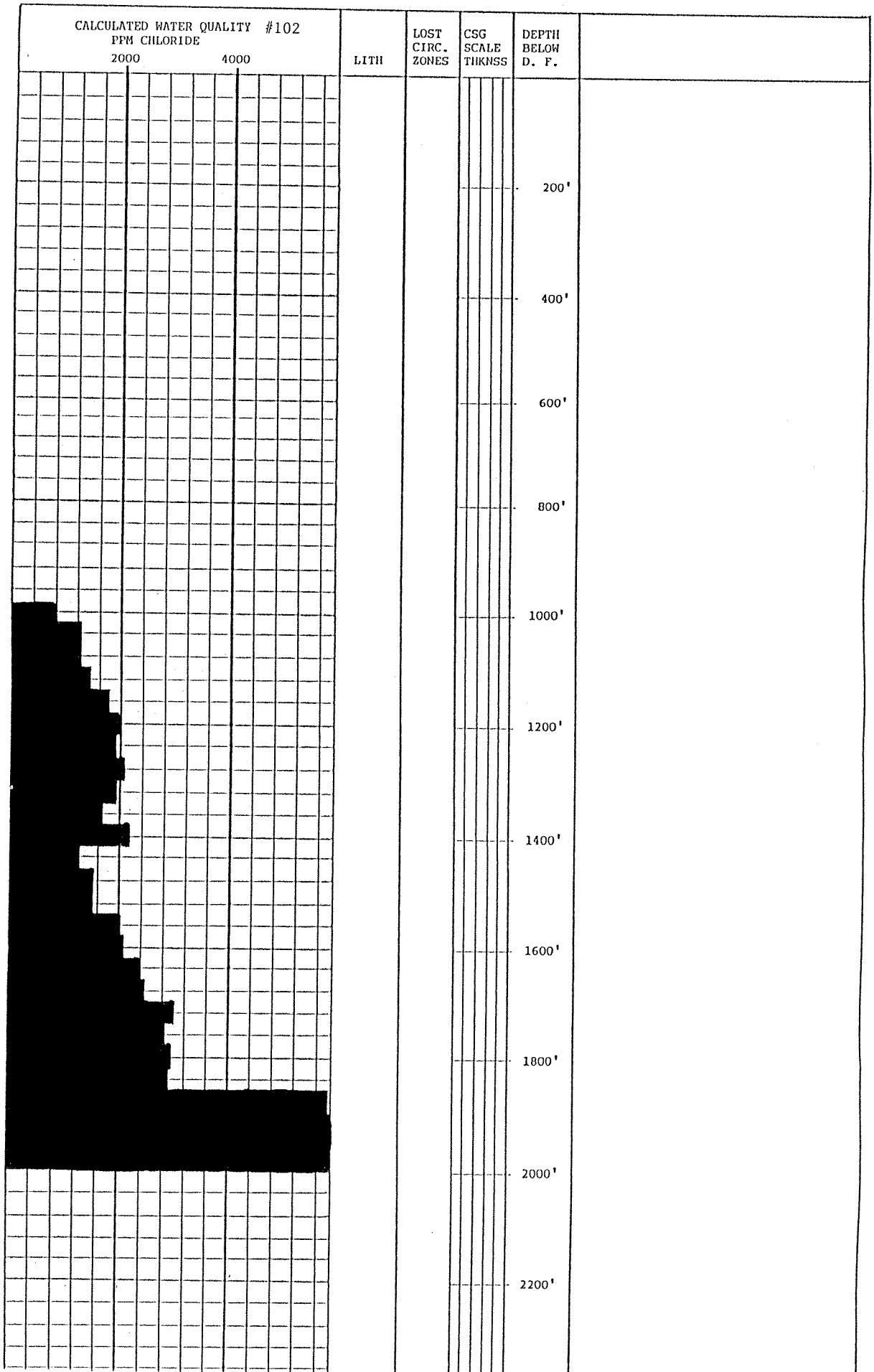
Depth	Description
1360-1400	Grayish orange, fg xln Dol, 20% vpo, chalky, dol Ls w/Dol rhombs in matrix, 5% moderate yellowish brown-dark yellowish brown chert, minor Camerina and cement.
1400-1420	60% Ls, 35% Dol and 5% chert as above; common Camerina.
1420-1440	Grayish orange, vfg-fg xln Dol, 40% vpo, silty, part rexal, dol Ls, some w/Dol rhombs in matrix, rare Leps and Camerina.
1440-1480	60% Dol and 40% Ls as above; rare echinoid frags.
1480-1500	Vpo, silty, part rexal, fos, dol Ls, some w/Dol rhombs in matrix, minor rexal cones.
1500-1560	Vpo, sl silty, granular, part rexal, fos, dol Ls, common rexal cones and miliolids, rare brown carbonaceous matter.
1560-1580	Vpo, chalky, sl granular, part rexal, fos, sl dol Ls; rare cones, echinoid and carb matter.
1580-1600	Ls as above; rare calcite crystals.
1600-1640	Vpo, sl silty, sl granular, part rexal, fos, dol Ls, minor rexal cones, rare carb matter.
1640-1660	Grayish orange, rexal, granular, sl dol Ls, minor med gray, micritic, dol Ls, minor rexal cones and miliolids.
1660-1700	As above; Ls more dolomitic.
1700-1740	Vpo-grayish orange, granular, part rexal, fos, dol Ls, minor vpo-med gray, micritic, dol Ls, rare rexal cones and carb matter.
1740-1760	Vpo-grayish orange, sl silty, granular, part rexal, fos, dol Ls, minor rexal cones, rare Dictyoconus americanus and carb matter.
1760-1780	Ls as above, common D. americanus and minor carb matter.
1780-1820	Vpo, sl silty, granular, part rexal, fos, dol Ls, minor grayish orange-med gray, micritic, dol Ls and minor D. americanus.
1820-1840	As above w/rare grayish orange, fg xln Dol.
1840-1860	Vpo-grayish orange, granular, part rexal, fos, dol Ls, rare D. americanus and carb matter.
1860-1880	Yel gray, part rexal, granular-fg xln Dol, rare D. americanus.
1880-1900	Grayish orange, sl granular, part rexal, dol Ls, some w/carb matter, rare D. americanus.

Depth	Description
1900-1920	Ls as above; minor carb matter.
1920-1940	Vpo, sl silty, part rexal, granular, fos, dol Ls; minor D. americanus and Lepidocyclina; cement.
1940-1960	Vpo, sl silty, part rexal, dol Ls, minor carb matter and D. americanus; cement.
1960-2000	Ls as above; minor D. americanus, Leps, carb matter and cement.
2000-2020	Moderate yellowish brown, vfg-fg xln Dol, 50% vpo, sl silty, granular, part rexal, dol Ls, some w/Dol rhombs in matrix; minor D. americanus and Lepidocyclina.
2020-2040	Grayish orange to mod yel brn, vfg-med xln Dol, 50% vpo, sl granular, dol Ls, rare D. americanus and Lepidocyclina.
2040-2060	As above; 70% Ls and 30% Dol; trace of grayish orange, platy gypsum; cement.
2060-2100	Ls as above, some w/carb matter; 20% Dol as above, minor D. americanus, rare clear gypsum and cement.
2100-2120	Grayish orange-mod yel brn, med xln aggregates of Dol rhombs, 25% vpo, sl granular, part rexal, dol Ls, rare D. americanus and cement.
2120-2140	85% Dol and 15% Ls as above; cement.
2140-2160	Grayish orange-mod yel brn, med xln aggregates of Dol rhombs, 20% vpo, sl granular, part rexal, dol Ls, minor dk yel orange-mod yel brn, vfg Anhy and cement.
2160-2180	70% Dol, 20% Ls as above, 10% grayish orange-mod yel brn, vfg xln Dol and cement.
2180-2220	50% vpo, granular, dol Ls, some w/Dol rhombs in matrix, 40% grayish orange, med xln aggregates of Dol rhombs, 10% mod yel brn, vfg xln, dolomitic Anhy and cement.
2220-4200	Samples missing.
4200-4440	Not logged.

021-138

Permit No. 102 API 09-021-10020 County Collier Florida

Company Exxon SWDS #1 Well #2 Fee Sunniland Field



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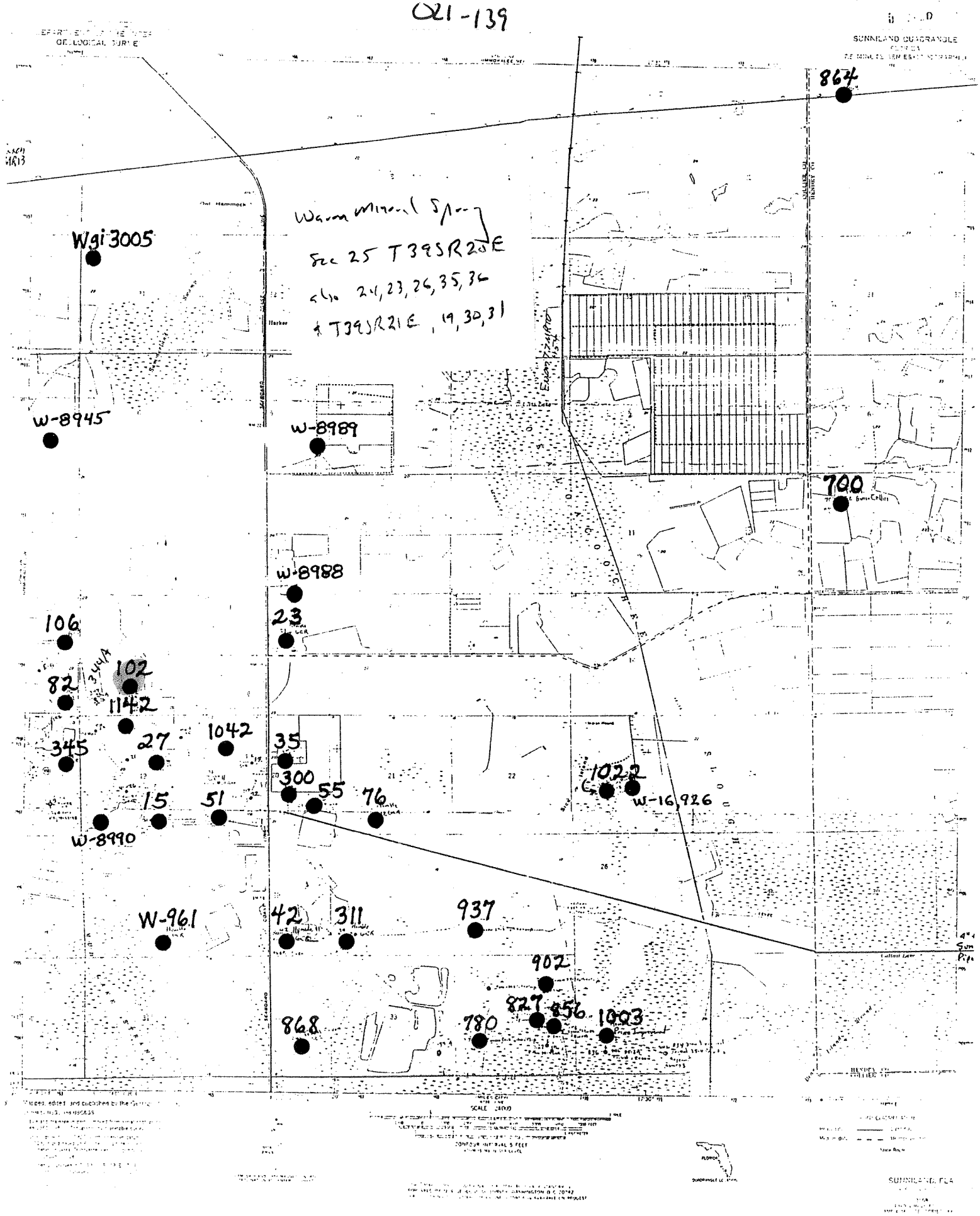
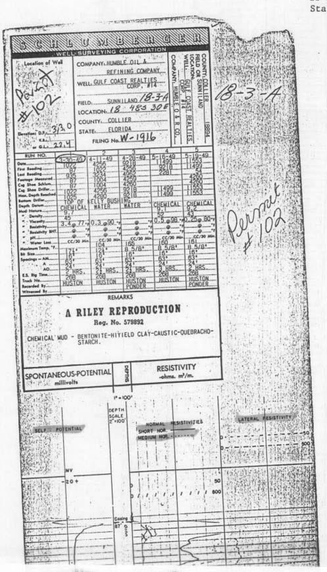


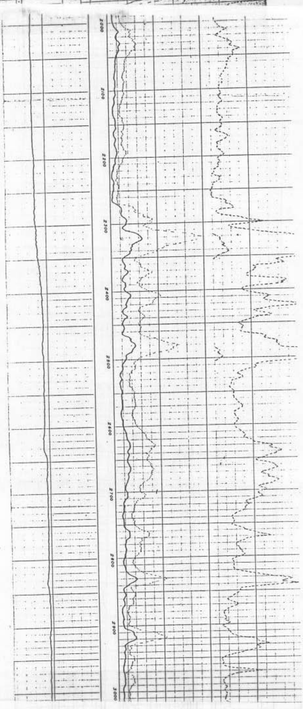
Well Location Map - Sunniland Quad

021 - 139

#102, W-1916, Humble #14, GCR, Center of SESW, Sec. 18, T48S R30E, Collier County, Sunniland Quad, GL 22', DF 33', TD 11,650', Spud 1/31/66, Status SI SWDW



#102



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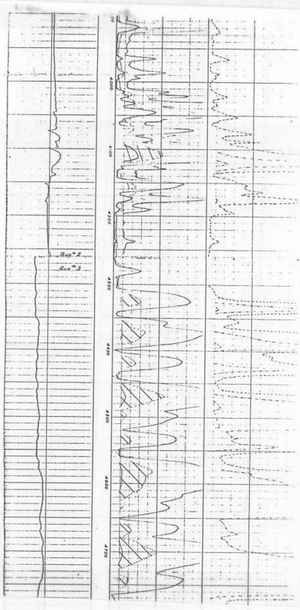
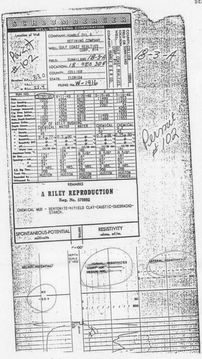
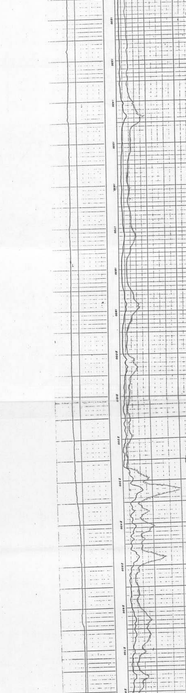


of SESW, Sec. 18, T48S R30E, Collier County, Sunniland Quad, GL 22', DF 33', TD 11,430', Spud 1/31/66, Status SI SWDW





#102, W-1916, Humble #14, GCR, Center of SESW, Sec. 18, T48S R30E, Collier County, Sunniland Quad GL 22', DF 33', TD 11,650', Spud 1/31/66, Status SI SWDW

102

Schlumberger

DUAL INDUCTION-SFL

COMPANY EXXON CO USA

WELL SWD #1

FIELD SUNNILAND

COUNTY COLLIER STATE FLORIDA

LOCATION NA

API SERIAL NO	SEC	TWP	RANGE
	NA	NA	NA

Other Services: FDC-CNL

Permanent Datum: GL ; Elev.: NA

Log Measured From GR 0 Ft. Above Perm. Datum

Drilling Measured From NA

Elev.: K.B. NA
33.0 D.F. ~~NA~~
22.4 G.L. ~~NA~~

Date	11-14-82			
Run No.	ONE			
Depth—Driller	2300			
Depth—Logger	2098			
Btm. Log Interval	2095			
Top Log Interval	992			
Casing—Driller	13 3/8 @ 1004	@	@	@
Casing—Logger	992			
Bit Size	12¼			
Type Fluid in Hole	SALT WATER			
Dens. / Visc.	NA / NA			
pH / Fluid Loss	NA / NA ml	ml	ml	ml

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

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole
ONE	2424	08	2411
NA			

11 45
CS4
11.52

LOGGING DATA
G.R.Sens.-log
G.R.T.C.-log
Sens.I.F.P.M.

GR (GAPI)
0.0 100.0
SP (MV)
-160.0 40.00

ILD (OHMM)
0.2000 2000.
ILM (OHMM)
0.2000 2000.
SFLU(OHMM)
0.2000 2000.

FILE
11

900
CSG
1000
1100
1200
1300
1400
1500

87/4960

GR
ID
ILM
SFLU

P102.GAS

P102 KS

#102

1800
1900
2000
FF

FILE
11

GR (GAPI)
0.0 100.0
SP (MV)
-160.0 40.00

ILD (OHMM)
0.2000 2000.
ILM (OHMM)
0.2000 2000.
SFLU(OHMM)
0.2000 2000.

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

MCNL	44.4	FEET	GR	52.9	FEET
FFDC	29.1	FEET	FCNL	44.4	FEET
CALI	29.1	FEET	NFDC	29.1	FEET
SFL	3.9	FEET	ILD	6.9	FEET
SP	.0	FEET	ILM	3.3	FEET
TENS	.0	FEET	SPAR	.0	FEET
MRAT	44.4	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PSNR	2.337		BS	12.25	IN
MATR	LIME		HC	CALI	
MDEN	2.710	G/C3	FD	1.000	G/C3
BHF	WATE		FDCC	ALLO	
SBR	1.000	OHMM	DSEC	4.200	MMHO
BHS	OPEN		MSEC	6.500	MMHO
DO	0.0				

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 02/11/14
PROGRAM FILE: ISM (VERSION 20.2 81/ 1/30)

DITD TOOL CHECK

	ZERO		PLUS		
	BEFORE	AFTER	BEFORE	AFTER	UNITS
ILD	0.0	-0.0	499.8	499.5	MMHO
ILM	0.0	0.0	500.0	498.2	MMHO
SFL	0.0	-0.0	500.0	498.5	MMHO

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 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 our General Terms and Conditions as set out in our current Price Schedule.

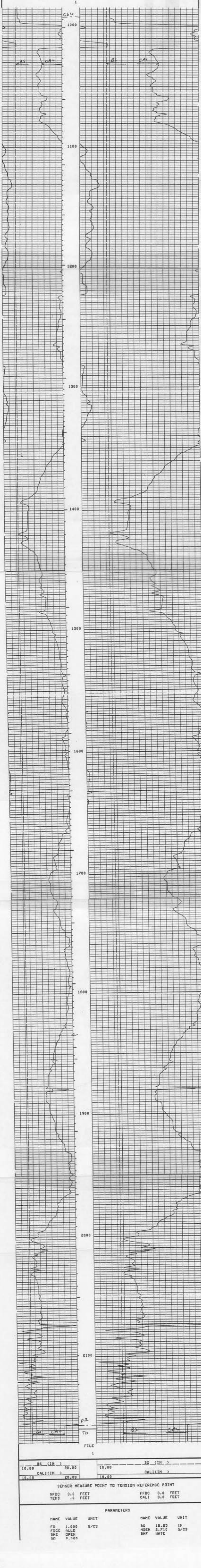
P102.LAS

Caliper

87/4960

CALIPER		CALIPER
10 23	10 15	23
BS (IN)	BS (IN)	
10.00 20.00	10.00	20.00
CALI(IN)	CALI(IN)	
10.00 20.00	10.00	20.00

FILE 1



FILE 1

BS (IN)	BS (IN)
10.00 20.00	10.00 20.00
CALI(IN)	CALI(IN)
10.00 20.00	10.00 20.00

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

MFDC	3.0	FEET	FFDC	3.0	FEET
TEMS	.0	FEET	CALI	3.0	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
FD	1.000	G/C3	BS	12.25	IN
FDCC	ALLO		MDEN	2.710	G/C3
BHS	OPEN		BHF	WATE	
DD	2.000				

021

Schlumberger

102

CALIPER LOG

COMPANY EXXON CO USA

WELL SWD #2 SYSTEM 1

FIELD SUNNILAND

COUNTY COLLIER STATE FLORIDA

LOCATION

API SERIAL NO. | SEC. N/A | TWP. N/A | RANGE N/A

Other Services: NONE

COUNTY

FIELD

LOCATION

WELL

COMPANY

Permanent Datum: G.L. Elev. N/A

Log Measured From: G.L. 27 Ft. Above Perm. Datum

Drilling Measured From: R.K.B.

Date	11-21-82	
Run No.	ONE	
Depth—Driller	2300	
Depth—Logger (Schl.)	2156	
Btm. Log Interval	2150	
Top Log Interval	3992	
Casing—Driller	13⅜@3994	@
Casing—Logger	4DF	
Bit Size	12¼	
Type Fluid in Hole	SW/GEL	
Dens. / Visc.	9.5 / -	lb/gal / sec/qt
pH / Fluid Loss	- / -	cc / ml
Source of Sample	MUD PIT	
Rm @ Meas. Temp.	- @ -	@ °F
Rmf @ Meas. Temp.	- @ -	@ °F
Rmc @ Meas. Temp.	- @ -	@ °F
Source: Rmf / Rmc	- / -	
Rm @ BHT	- @ -	@ °F
Circulation Stopped	-	
Logger on Bottom	1330	
Max. Rec. Temp.	-	°F
Equip. Location	3033 / 5747	
Recorded By	WALKER	
Witnessed By	MR. WILLIAMS	

The well name, location and borehole record data were furnished by the customer.

Run No.	ONE
Service Order No.	18LLL4
API Serial No.	
Fluid Level	FULL

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

REMARKS

CALIBRATION DATA

Speed - F.P.M.

GR	BKG. CPS
	Source CPS
	Tc

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 interpretation, and we shall not 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 our General Terms and Conditions as set out in our current Price Schedule.

1500

1600

2000

2100

FR

TD

BS

CAL

BS

CAL

FILE

1

BS (IN)		BS (IN)	
10.00	20.00	10.00	20.00
CALI(IN)		CALI(IN)	
10.00	20.00	10.00	20.00

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

#102, W-1916, Humble #14, GCR, Center of SESW, Sec. 18, T48S R30E, Collier County, Sunniland Quad, GL 22', DF 33', TD 11,650', Spud 1/31/66, Status SI SWDW

021-139

102

Schlumberger

SIMULTANEOUS

COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY EXXON CO USA

WELL SWD #1

FIELD SUNNILAND

COUNTY COLLIER STATE FLA

LOCATION NA

API SERIAL NO | SEC NA | TWP NA | RANGE NA

Other Services:

DIL-GR

Permanent Datum: GL ; Elev.: NA

Log Measured From GL, 0 Ft. Above Perm. Datum

Drilling Measured From

Elev.: K.B. NA
330 D.F. NA
22.4 G.L. NA

Date	11-14-81			
Run No.	ONE			
Depth - Driller	2300			
Depth - Logger	2093			
Btm. Log Interval	2066			
Top Log Interval	992			
Casing - Driller	13 3/8 @ 1004	@	@	@
Casing - Logger	992			
Bit Size	12 1/4			
Type Fluid in Hole	SALT WATER			
Dens. / Visc	NA / NA			
pH / Fluid Loss	NA / NA ml	ml	ml	ml
Source of Sample	NONE			
Rm @ Meas. Temp.	— @ — F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	— @ — F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	— @ — F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	— / —			
Rm @ BHT	— @ — F	@ °F	@ °F	@ °F
Time Circulation Stopped	—			
Time Logger on Bottom	1000			
Max. Rec. Temp.	87 °F	°F	°F	°F
Equip. Location	0193 / FT MYERS			

Type Log | Depth

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

NO.	ONE
Order No.	242408
Level	FULL
PPM CL.	—
F.P.M.	30

EQUIPMENT DATA

Panel	1267
Cart.	416
Skid.	1201

87/4960

DPHI
NPHI

P102.LAS

CALIPER DIAM. IN INCHES 10 20

GAMMA RAY API UNITS 0 100

HILOG

POROSITY INDEX % SLOE MATRIX
COMPENSATED FORMATION DENSITY POROSITY 60 45 30 15 0
COMPENSATED NEUTRON POROSITY 60 45 30 15 0

BS (IN) 10.00 20.00
CALI(IN) 10.00 20.00
GR (GAPI) 0.0 100.0

TENS(LB) 10000. 0.0
DRHO(G/C3) -0.250 0.2500
DPHI( ) 0.6000 0.0
NPHI( ) 0.6000 0.0

FILE 11

900
1000
1100
1200
1300
1400
1500

1600

1700

1800

#102

1800
1900
2000

FILE 11

BS (IN) 10.00 20.00
CALI(IN) 10.00 20.00
GR (GAPI) 0.0 100.0

TENS(LB) 10000. 0.0
DRHO(G/C3) -0.250 0.2500
DPHI( ) 0.6000 0.0
NPHI( ) 0.6000 0.0

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

HCNL	44.4	FEET	GR	52.9	FEET
FFDC	29.1	FEET	FCNL	44.4	FEET
CALI	29.1	FEET	NFDC	29.1	FEET
SFL	3.9	FEET	ILD	6.9	FEET
SP	.0	FEET	ILM	3.3	FEET
TENS	.0	FEET	SPAR	.0	FEET
MRAT	44.4	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PSMR	2.337		BS	12.25	IN
MATR	LIME		HC	CALI	
MDEN	2.710	G/C3	FD	1.000	G/C3
BHF	WATE		FDCC	ALLO	
SBR	1.000	OHMM	DSEC	4.200	MMHO
BHS	OPEN		MSEC	6.500	MMHO
DD	0.0				

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 82/11/14
PROGRAM FILE: ISM (VERSION 20.2 01/ 1/30)

DITD TOOL CHECK

	ZERO BEFORE	ZERO AFTER	PLUS BEFORE	PLUS AFTER	UNITS
ILD	0.0	-0.0	499.8	499.5	MMHO
ILM	0.0	0.0	500.0	498.2	MMHO
SFL	0.0	-0.0	500.0	498.5	MMHO

ILD SONDE ERROR CORRECTION : 4.2 MMHO
ILM SONDE ERROR CORRECTION : 6.5 MMHO

CNTA TOOL CHECK

DIGITAL FORMATION

Digital Formation, Inc.
Denver, CO (USA)

NPHI
0.6 % 0
1.2 0.6
DPHI
0.6 % 0
1.2 0.6
0 -0.6

1 FT : 1200 FT
MD in F
Null Data

900
1000
1100
1200
1300
1400
1500
1600
1700

DIGITAL FORMATION

Digital Formation, Inc.
Denver, CO (USA)

NPHI
0.6 % 0
1.2 0.6
DPHI
0.6 % 0
1.2 0.6
0 -0.6

1 FT : 1200 FT
MD in F
Null Data

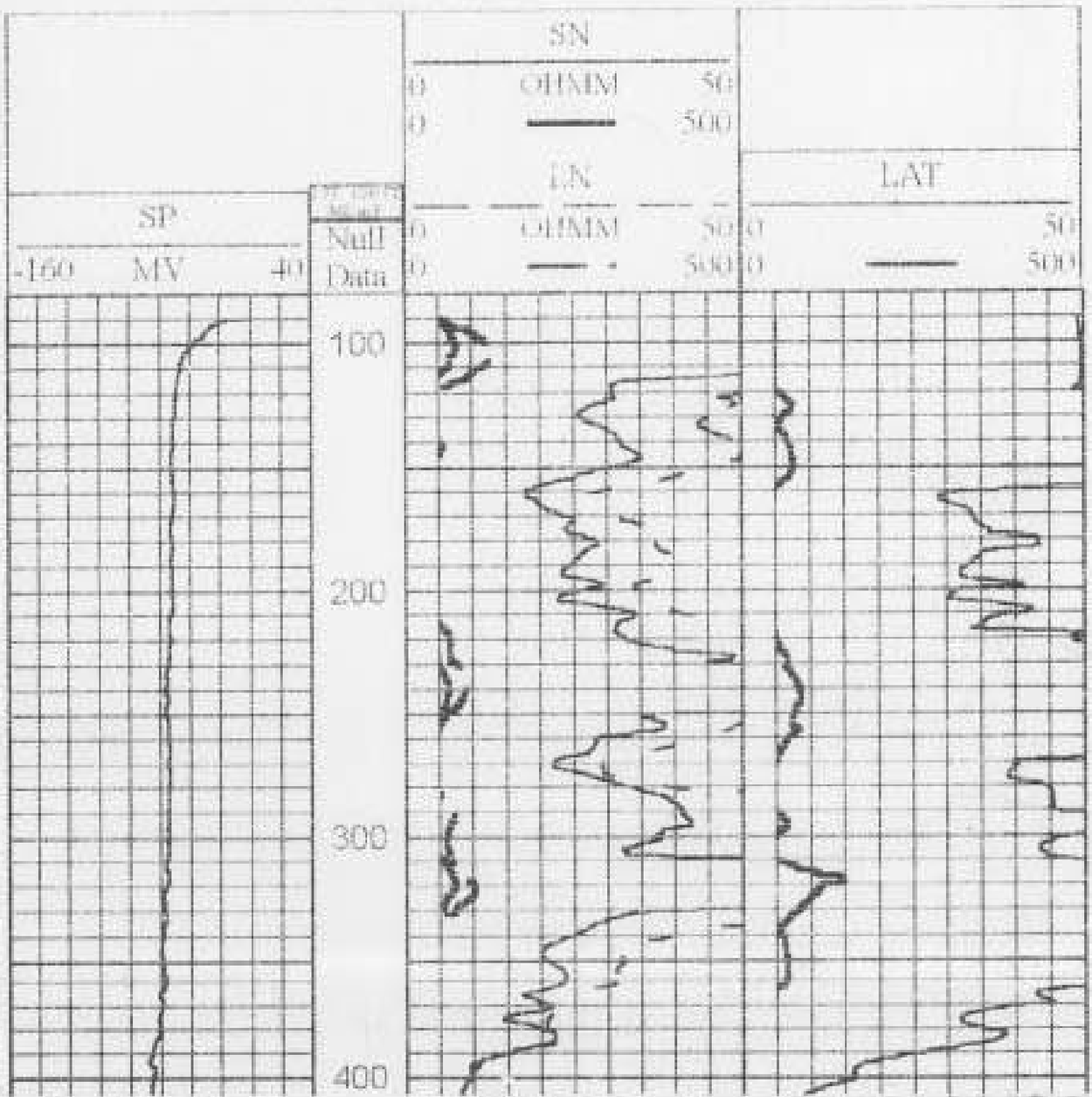
1800
1900
2000
2100

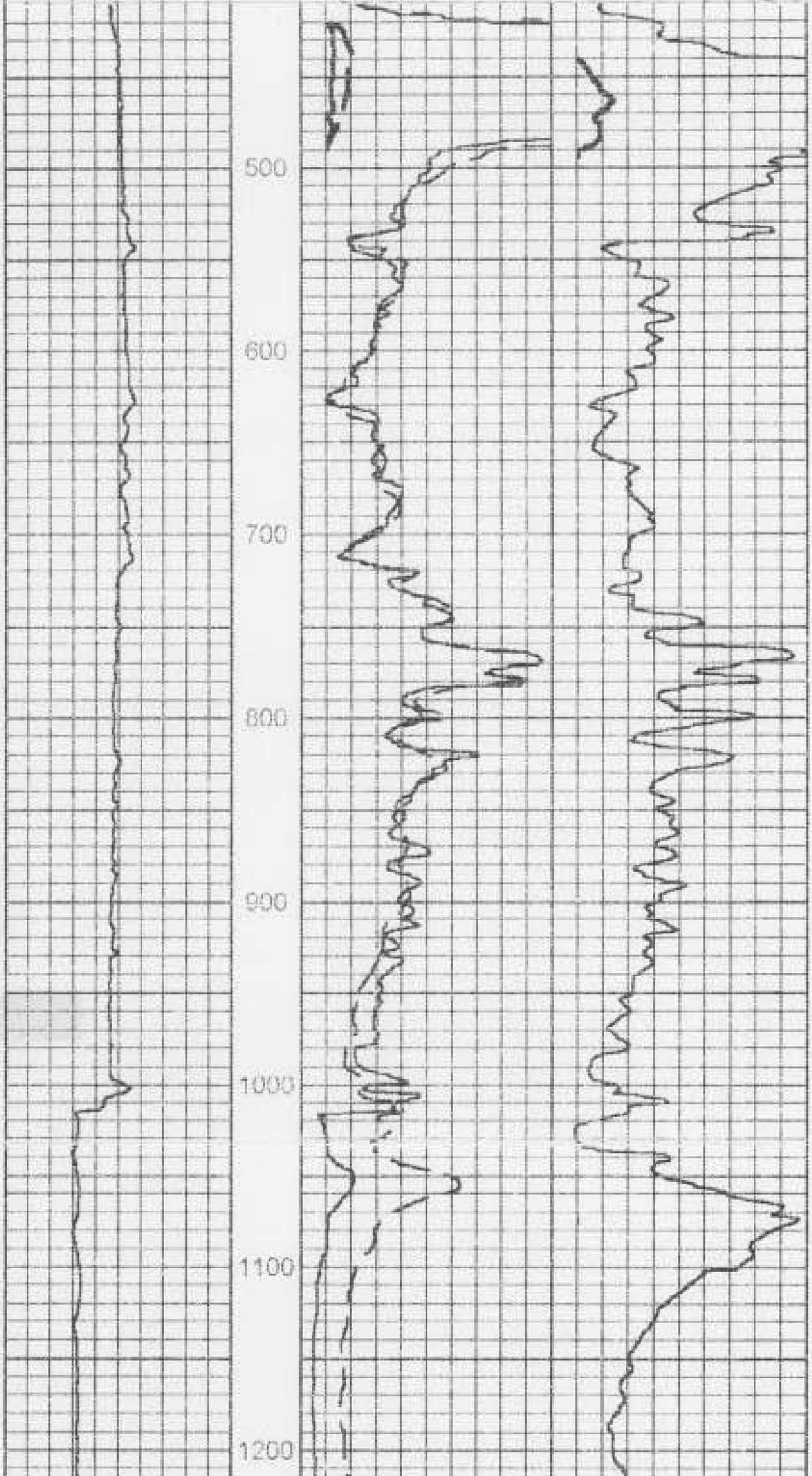
DIGITAL

Digital Formation, Inc.

Denver, CO (USA)

FORMATION

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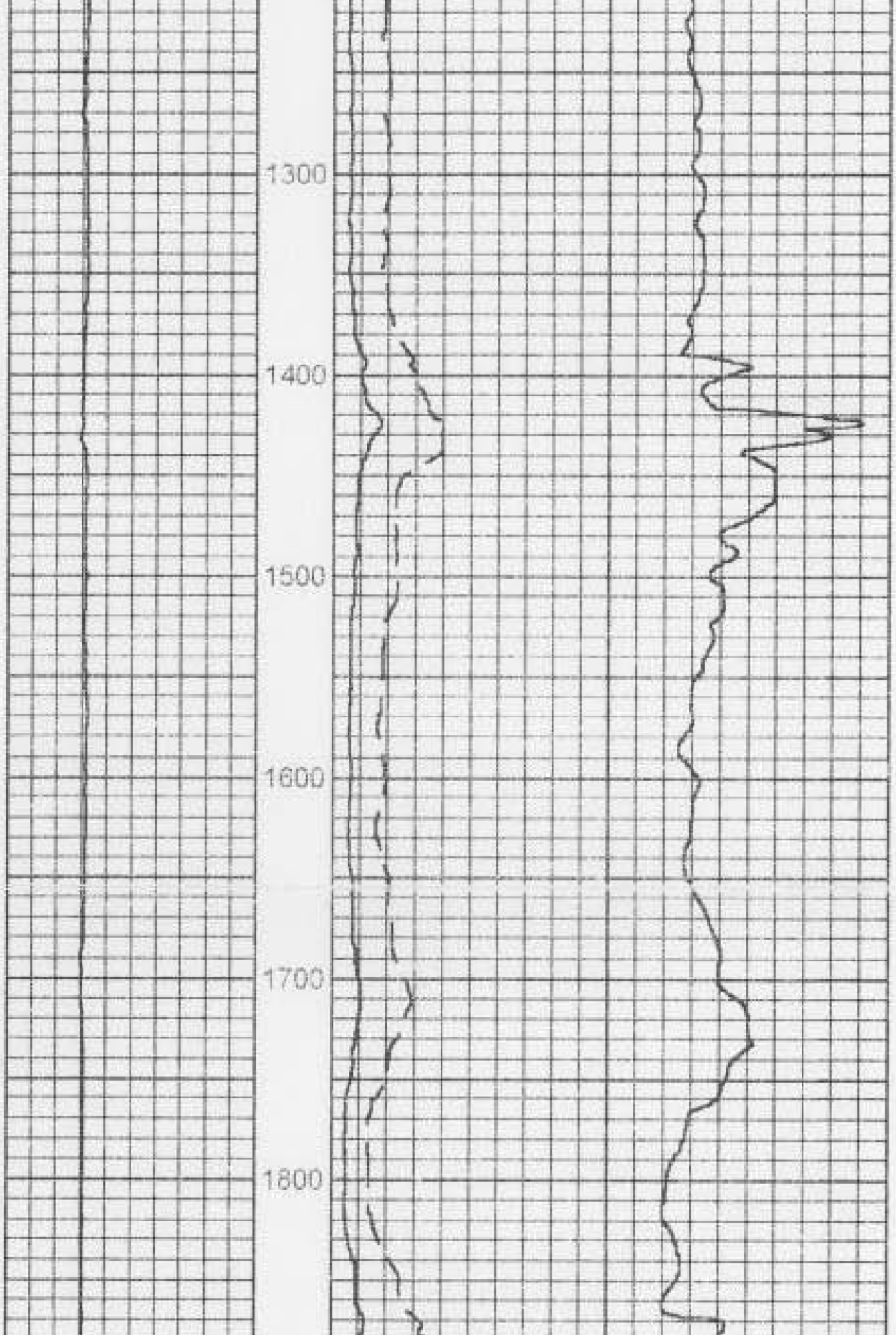
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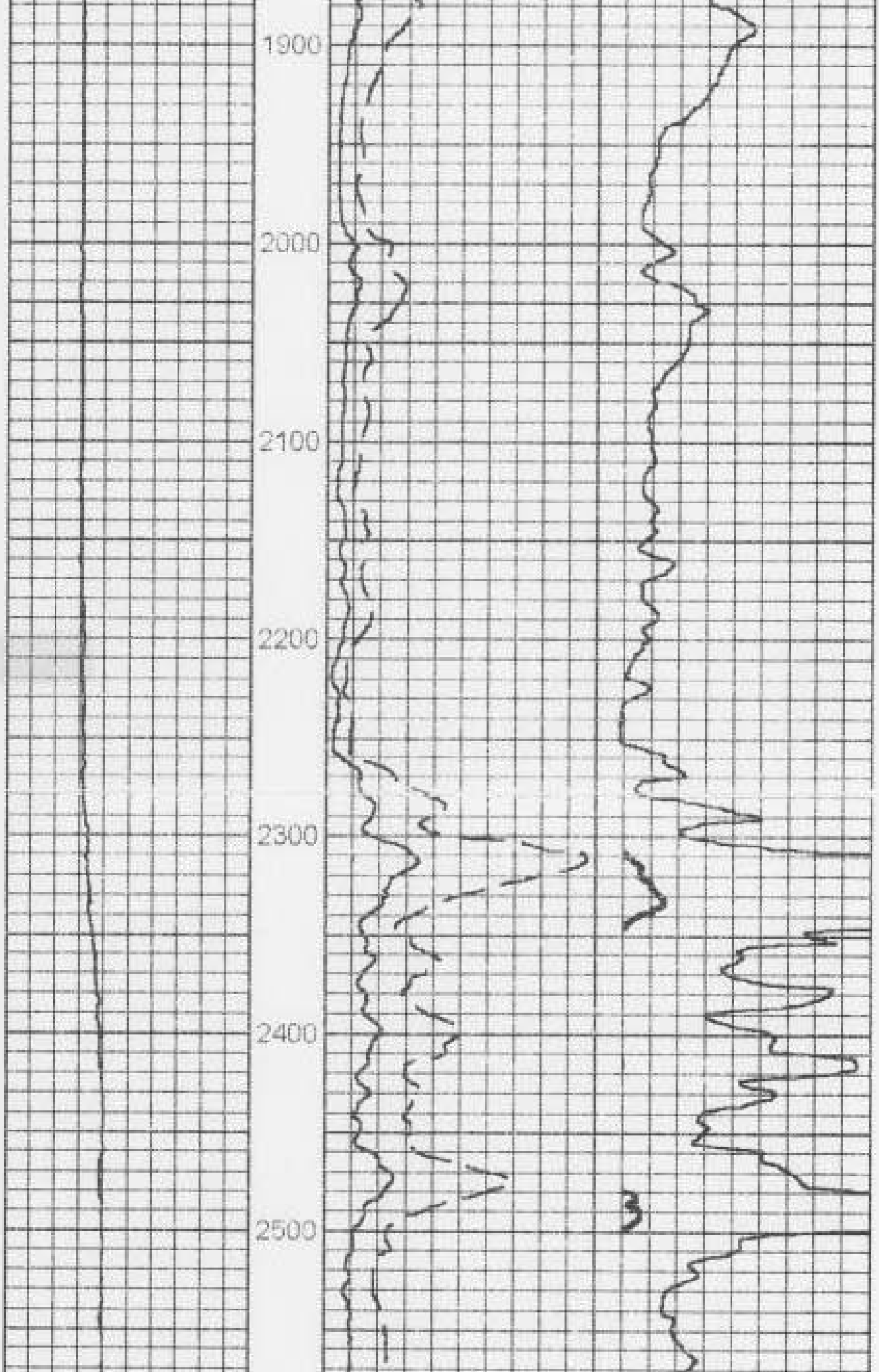
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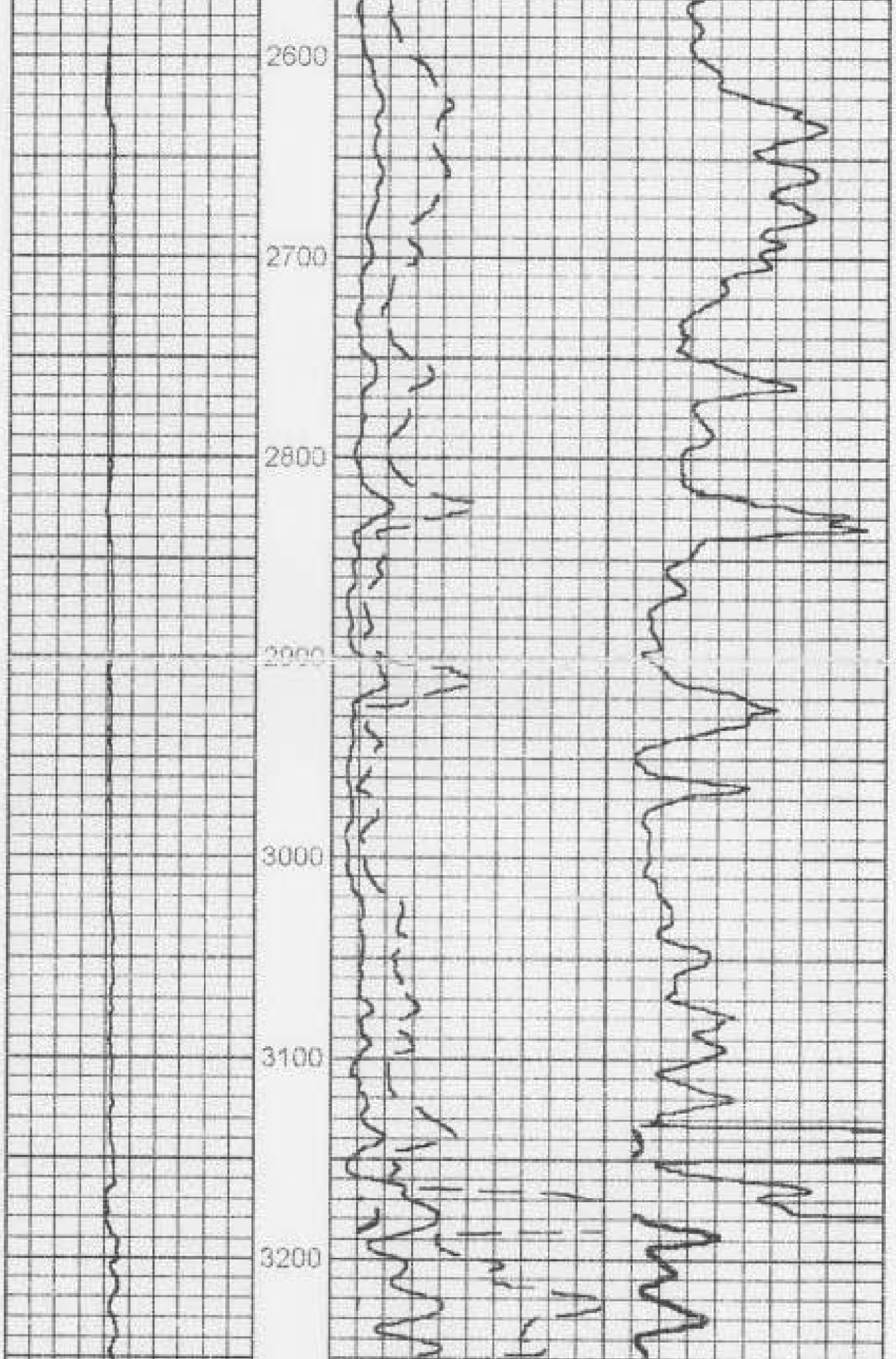
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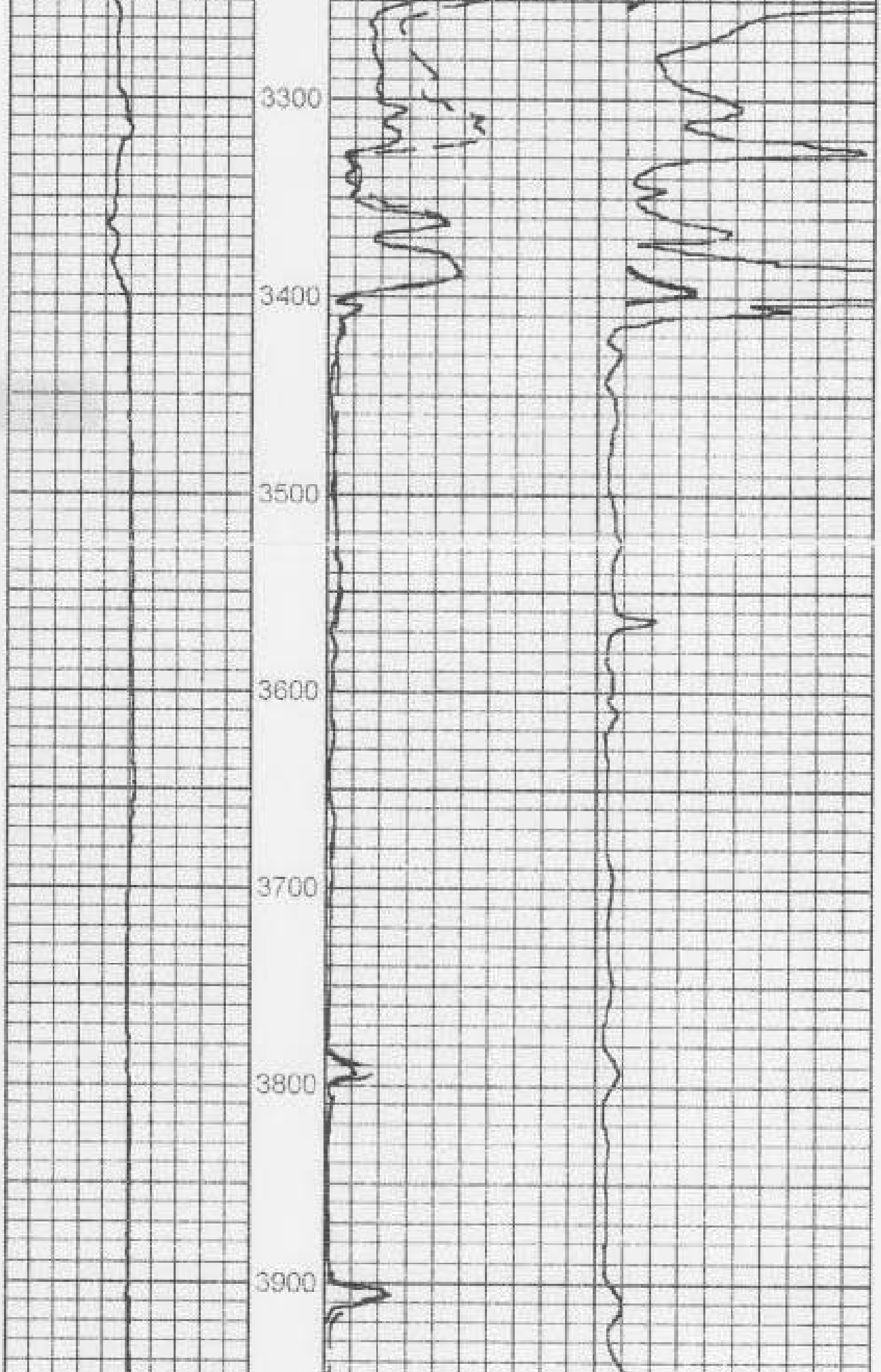
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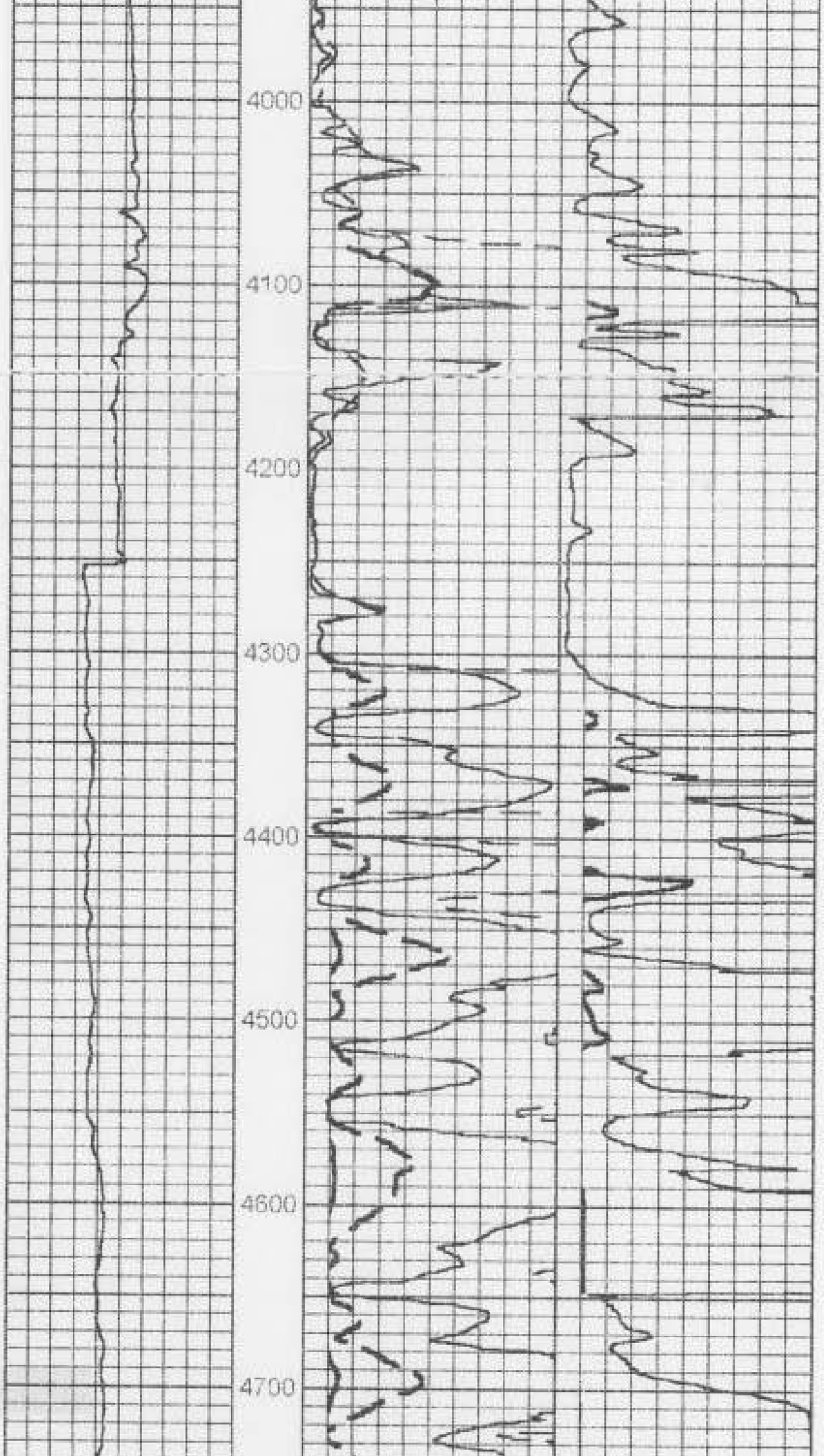
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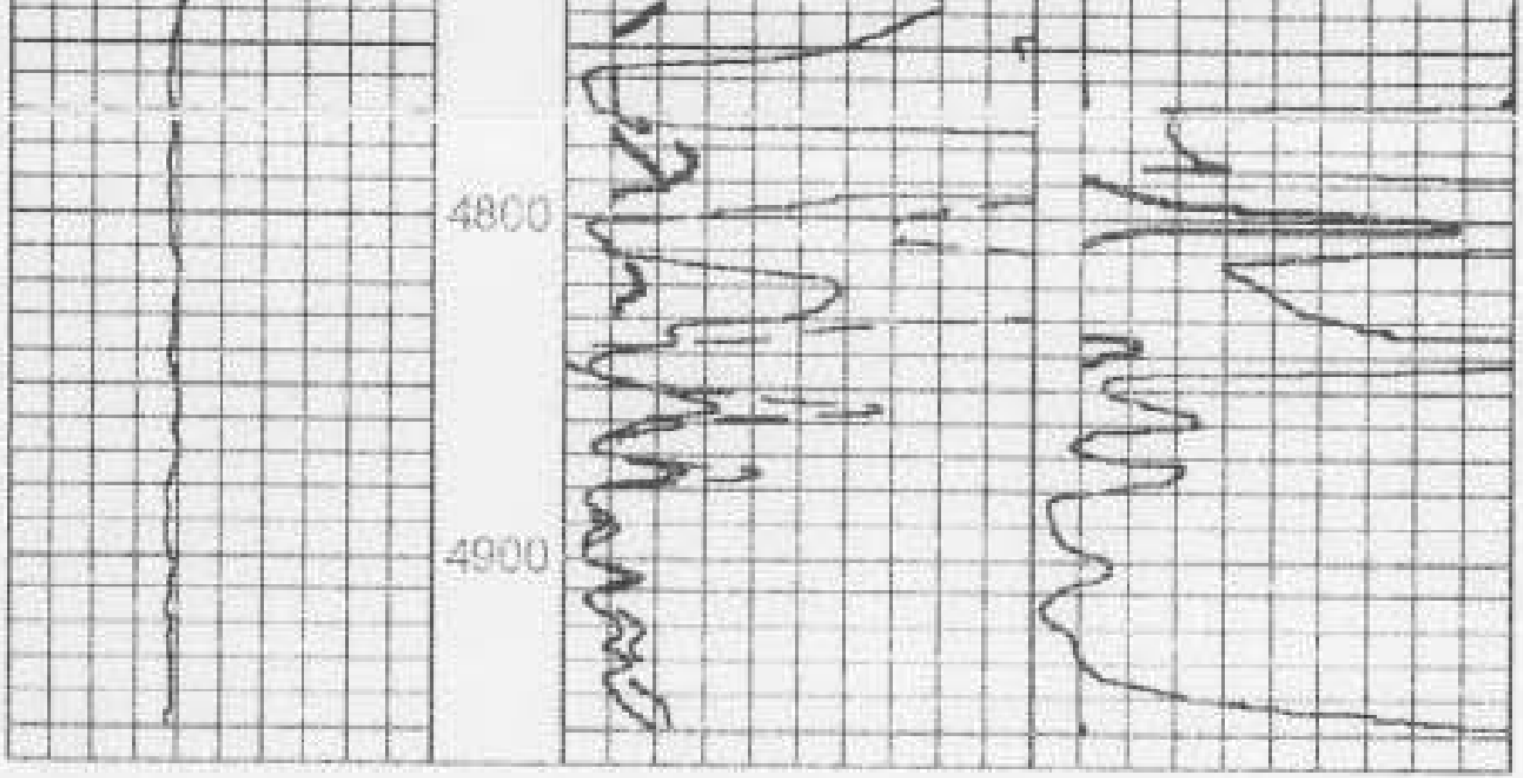
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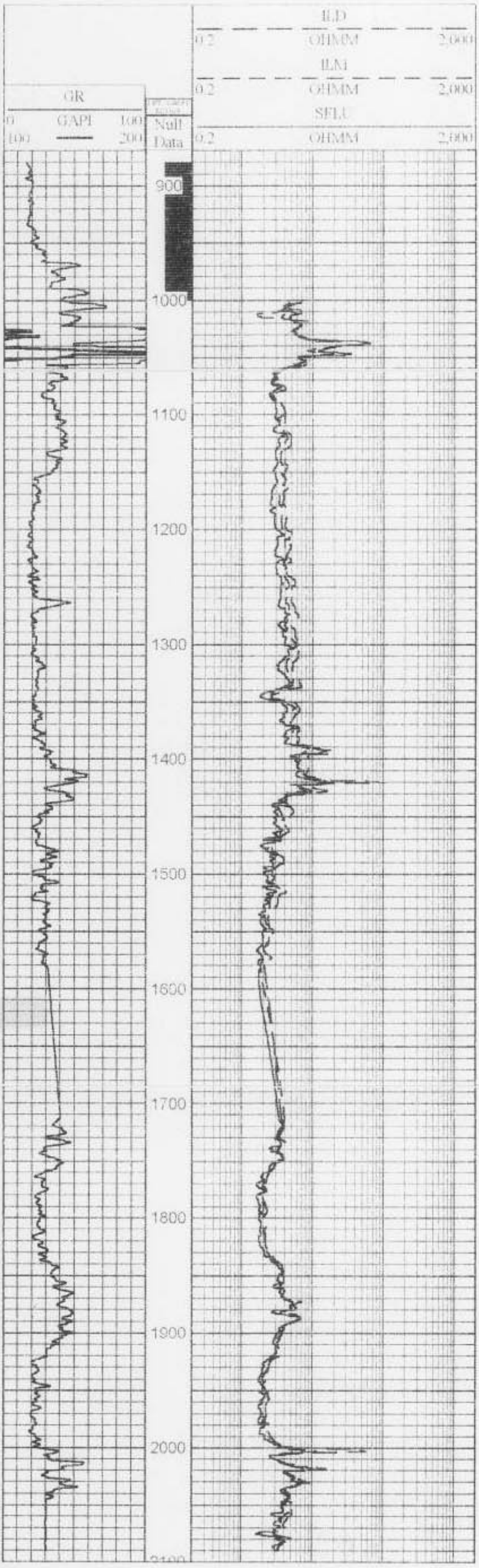
DIGITAL FORMATION

Digital Formation, Inc.
Denver, CO (USA)

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