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**GEOLOGIST'S WELL REPORT**

COMPANY Staab Oil Company #6037  
WELL Rome-Wilfric  
FIELD Reed

LOCATION (legal) NW-SW-SW-NW 2100' FNL 90' FWL  
Section 32 TWP 12S RGE 17W  
(Map) 1 mi W + 2 1/2 mi N. of Catharine  
COUNTY Ellis STATE Kansas  
ELEVATION: 2054 K.B., 2049 G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-051-26812-00-00  
GEOLOGY BY Janel Staab

# PERTINENT WELL DATA

CONTRACTOR Shields Drilling Company #518  
RIG # 2 HYDRAULICS Beth 225 6x14x60  
DRILL PIPE 4.5" XH COLLARS 6 1/4" x 2 1/2" (233)  
CASING: SURFACE 8 5/8" @ 212' w/150 SX common  
PRODUCTION 5 1/2" @ 3680' w/150 SX common  
DRILLING FLUID: COMPANY Mud-Co / Services Mud Inc  
TYPE: Chemical Gary Schmidtberg  
REMARKS: Full Service  
DRILL STEM TESTS: COMPANY Trilobite Testing Inc  
NUMBER OF TESTS 3 Ray Schwager  
ELECTIC LOGS: COMPANY Cased Hole Solution  
DETAIL (5") 3000' - RTD  
TYPE DI, Comp N.D. Micro  
DRILLING TIME FROM 3000' TO RTD  
SAMPLE TIME FROM 3000' TO RTD  
SUPERVISION FROM 3000' TO RTD  
VERTICAL DEVIATION 3/4" @ 215', 1" @ 3366'  
PLUGGING REPORT \_\_\_\_\_  
RESERVE PIT \_\_\_\_\_

# DAILY REPORT

DATE:	7 a.m. Depth	RIG ACTIVITY
11-16-15		M.I.R.U.
11-19-15		Spud
11-20-15	212'	W.O.C.
11-21-15	1911'	Drilling Shale
11-22-15	2709'	Drilling Time + Shal
11-23-15	3366'	DST #1 LKC A-C
11-24-15	3431'	DST #2 LKC D-G
11-25-15	3680' T.D.	DST #3 Arbuckle P.+A

# DRILL STEM TESTS

NO	INTERVAL	IFF/TIME	ISIF/TIME	FF/TIME	FSIF/TIME	IHP/FHP	RECOVERY
1	3312'- 3364' LKC A-C	17 17 5	52 60	18 18 10	— out	1588# 1541#	2' mud
2	3364'- 3431' LKC D-G	19 23 5	237 60	23 33 60	145 90	1637# 1620#	60' GIP 30' SOCM
3	3511'- 3612' Arb.	16- 26 15	582 60	26- 50 90	370 90	1741# 1717#	70' MW - show of 80% water 20% mud
4							
5							
6							
7							
8							

## MUD RECORD

CHK	DEPTH	WT	VIS	FIL	CHL	YP
1	1911	8.9	27		520	
2	2719	10.5	31	NC	7000	-
3	3346	8.7	59	7.2	3000	29
4	3431	8.9	58	7.2	4000	29
5	3680	9.3	59	9.6	9000	35
6						
7						
8						
9						
10						
11						

LCM #2  
LCM #2  
LCM #2

## BIT RECORD

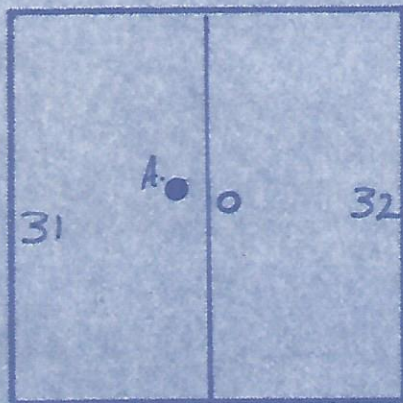
NO	SIZE	MAKE	TYPE	DEPTH	FEET	HOURS
1	12 1/4"	Reed	Multiteeth	215'	215'	5 3/4
2	7 7/8"	Reed	S-52	<del>3445</del> 3366	<del>3445</del> 3151	6 2 1/2
3						
4	7 7/8"	Reed	S-52	3680	314	19

# FORMATION TOPS & STRUCTURAL GEO

REFERRED TO:

A: Stueb Oil Company  
Wildcat #1 SE-SE NE S

- B: \_\_\_\_\_  
 C: \_\_\_\_\_  
 D: \_\_\_\_\_  
 E: \_\_\_\_\_



STRATIGRAPHIC MARKERS	SUBJECT WELL		STRUCTURAL POSITION			
	SAMPLE	E. LOG	DATUM	A	B	C
Anhydrite	1275	1273	+781	+780		
Base	1312	1311	+743	+742		
Topeka	3041	3039	-985	-981		
Heebner	3279	3276	-1222	-1219		
Toronto	3296	3296	-1242	-1239		
Lansing	3326	3320	-1266	-1265		
BKC	3548	3548	-1494	-1491		
Arbuckle	3595	3597	-1543	-1526		
TD	3680	3680	-1624	-1600		

\*Structural position of subject well as compared to refer

## SUMMARY

The Rome Wilfric was drilled using S  
Location was Sec 32 T12S, R17W 1W  
Ellis Co. Kansas starting on November 14  
reached T.D. on November 24, 2015

3-D Seismic indicated that this loc  
was Arbuckle high compared to surround  
drilled.

3 DST's and logs were ran. All  
had negative results. Logs confirmed  
this location actually was structurally low  
compared to reference well.

As a result the well was Q + A.

*Paul Seay*

Wells #2.

2015 and

ation

g holes

3 DST's

that

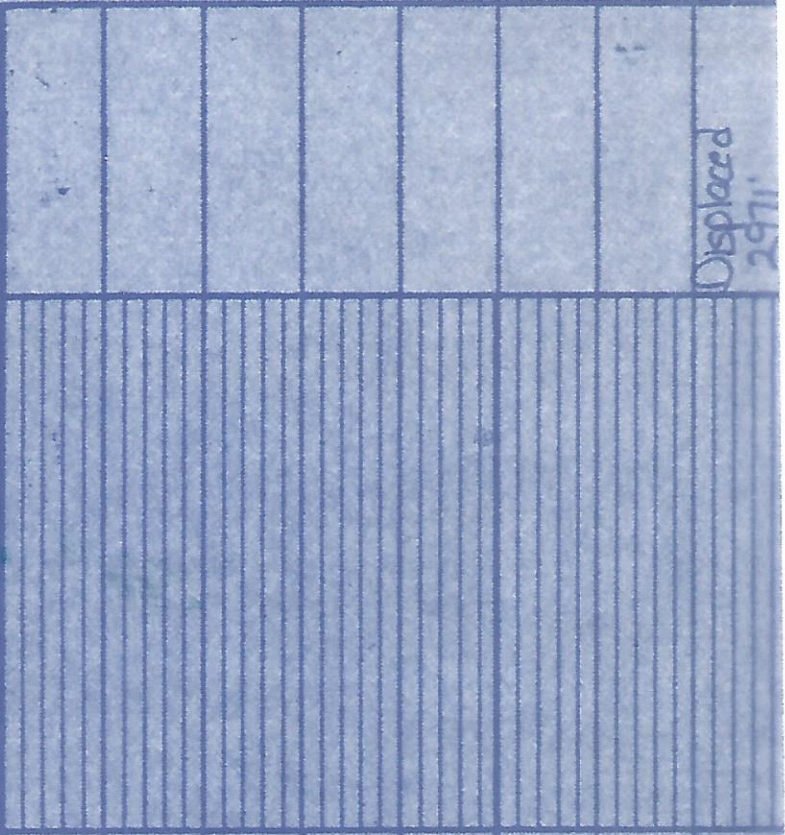
REMARKS

LITHOLOGY (LAGGED)

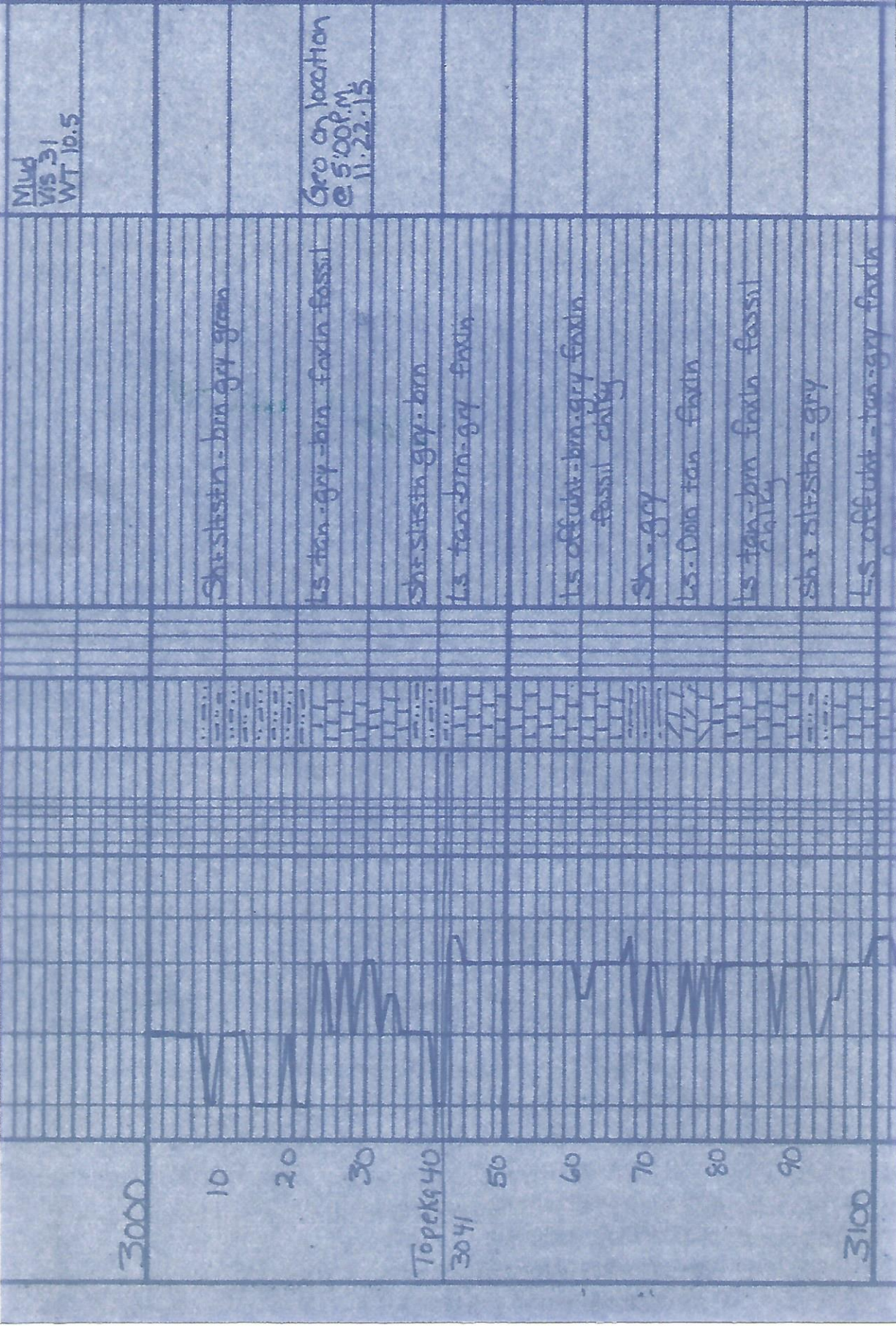
# & SHOWS  
POOR  
FAIR  
GOOD  
DST

DRILLING TIME (min/ft)  
1/2 1 2 3 4 5678910

1270  
1275 Ank  
+774 80  
90  
1300  
Base 10  
1312  
+742 20

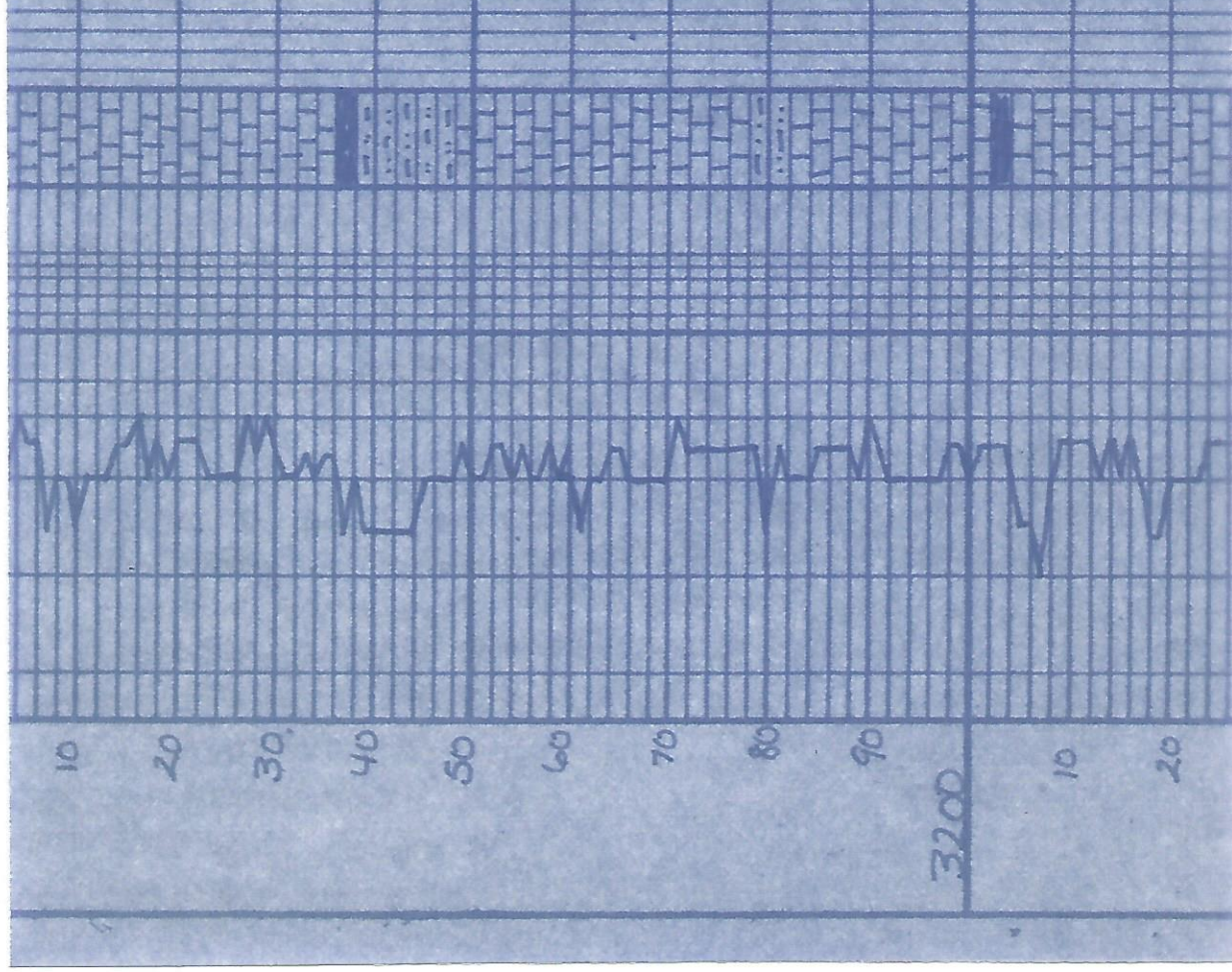


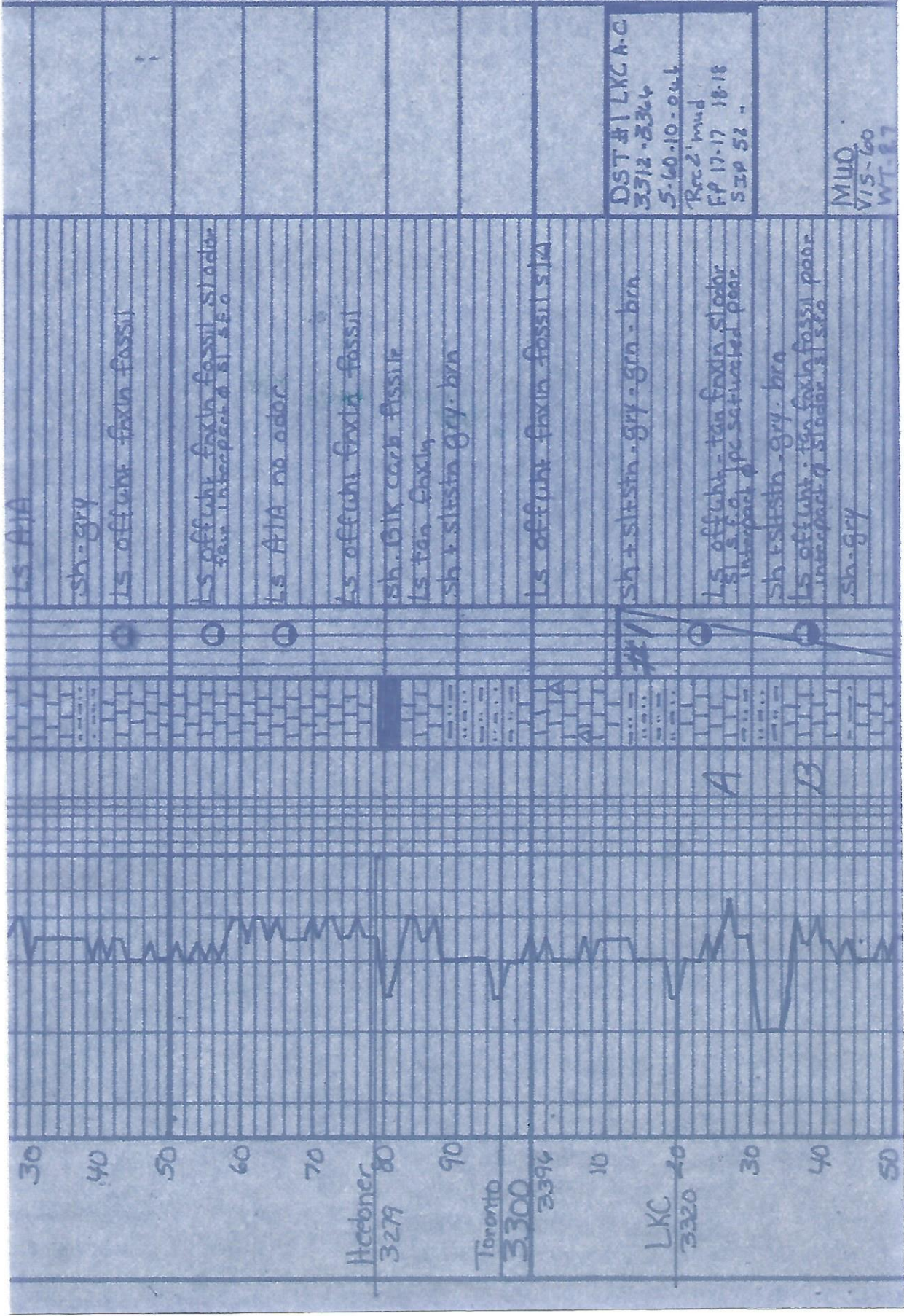
Displaced  
2971'





LS A1A
Sh. B1K
Sh. siltstn. gry. green-brn
LS top - gry. fossil cherty - si pyrite
LS A1A
Sh. siltstn. gry. brn
LS off wht - tan fossil
Sh. dr. gry. B1K
LS tan fossil silty



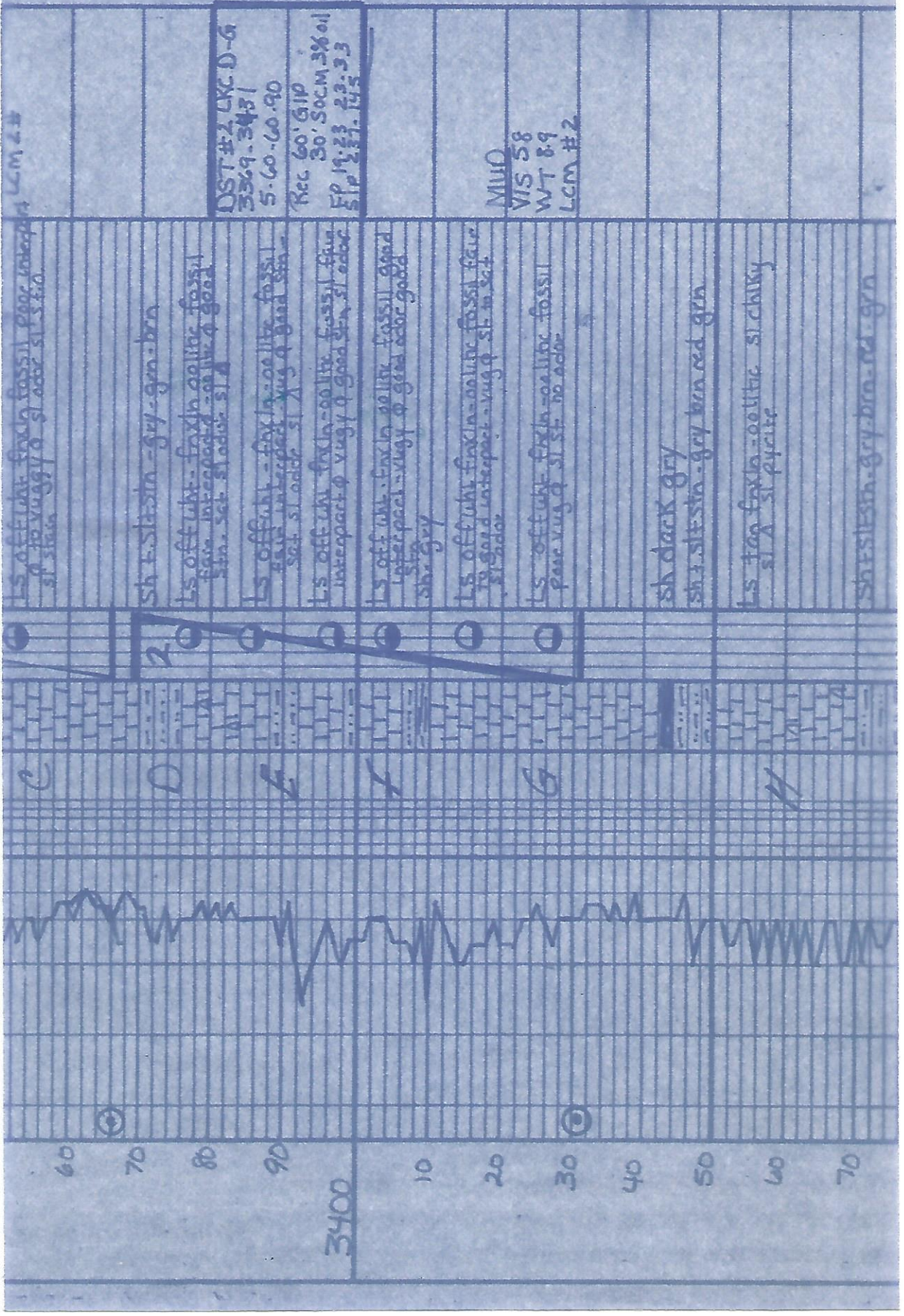


Ls A1A  
 sh-gry  
 ls offwhite faxia fossil  
 ls offwhite faxia fossil s.l. odor  
 ls A1A no odor  
 ls offwhite faxia fossil  
 sh. Blk carb fissile  
 ls tan faxia  
 sh + siltsstn gry-brn  
 ls offwhite faxia fossil s.l. odor  
 sh + siltsstn - gry - grn - brn  
 ls offwhite - tan faxia s.l. odor  
 sh + siltsstn - gry - brn  
 ls offwhite - tan faxia fossil poor  
 sh-gry

DST #1 LKC A-C  
 3312-2324  
 5-60-10-041  
 Rec 2' mud  
 FP 17-17 18-18  
 S.P. 52

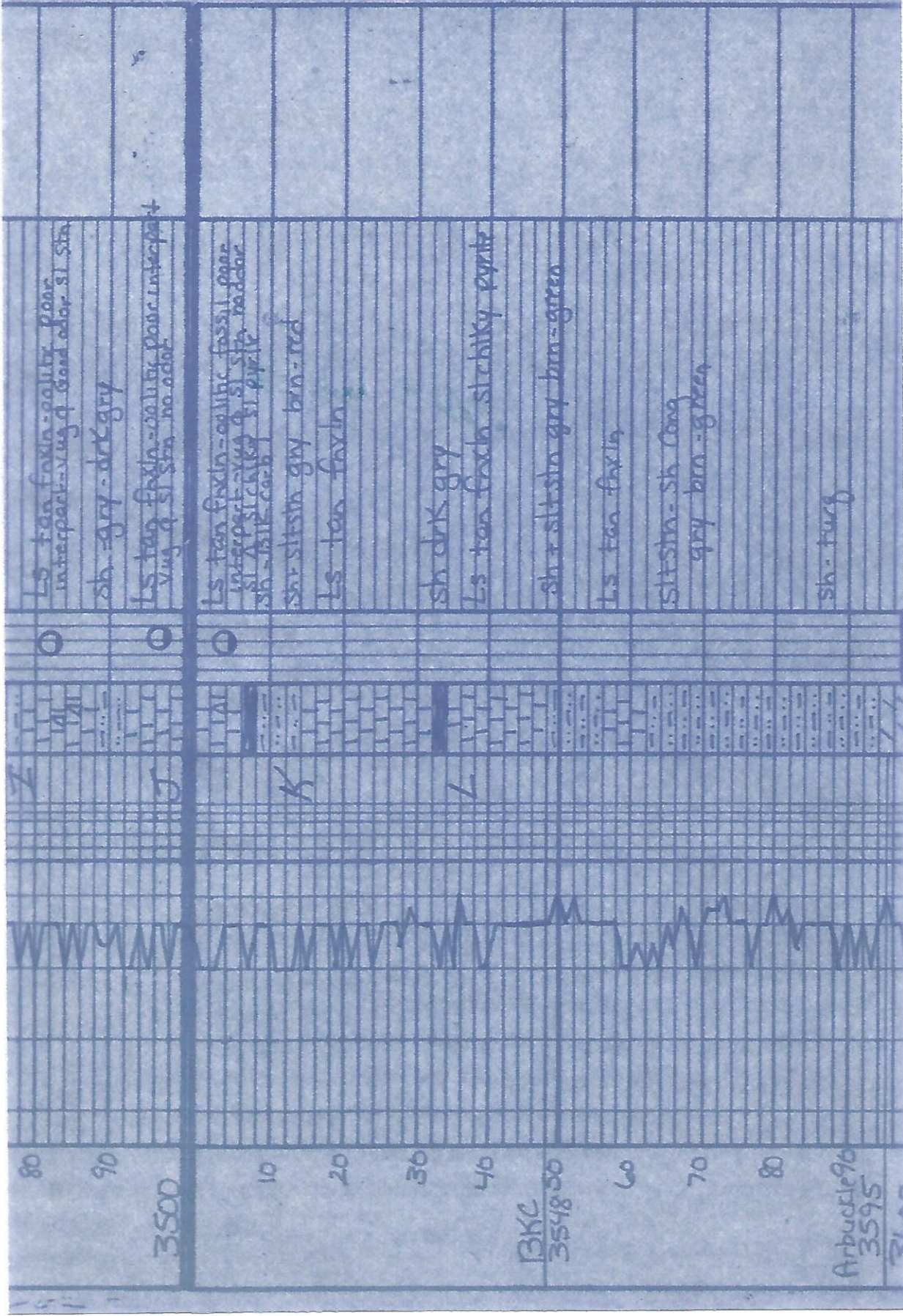
MIUD  
 V15-60  
 WT-87

30  
 40  
 50  
 60  
 70  
 Hebbner  
 3279  
 Toronto  
 3300  
 3394  
 10  
 LKC  
 3320  
 20  
 30  
 40  
 50



DST #2, LKCD-6  
 3369.3431  
 5-60-60-90  
 Rec 60' GIP  
 30' SocM-3% oil  
 FP 19.23 2.2-3.3  
 SIP 2.7-1.5

MUD  
 VIS 58  
 WT 8.9  
 LCM #2



I  
Ls tan faxin - oolitic poore  
intercept - viny q sand odor sl stn

J  
sh - gry - drk gry

K  
Ls tan faxin - oolitic fossil poore  
intercept viny q sl stn no odor  
sh - blk carb

L  
sh drk gry

Ls tan faxin  
slchiky pyrite

sh x slt stn gry brn - green

Ls tan faxin

slt stn - sh Cong  
gry brn - green

sh - burg

80

90

3500

10

20

30

40

BKC  
3548 50

60

70

80

Arbutic 96  
3595

DST #3  
 3597.3612 Arb.  
 15.40.90.90  
 FR 16.20 26.00  
 STP 582-370  
 Rec 70' M.W.S.O.  
 80% water  
 20% mud

MUD  
 VLS 59  
 WT 9.3  
 LCM #2

Dolo character fine-grained  
 good vis of oil str. s.l.o. good  
 set. good odor

Dolo AHA

Dolo clear. tan fine-grained  
 fair intercat. vis of oil set  
 s.l.o. good odor

Dolo clear. tan fine-grained  
 fair intercat. vis of dark tan  
 oil str. good odor

Dolo character poor

Remarks Dolo

