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**GEOLOGIST'S WELL REPORT**

COMPANY Staab Oil Company (6037)  
WELL Haines #1  
FIELD Webster View Southeast  
LOCATION (legal) NW-SE · NW-NW 765 FNL 975 F WL  
Section 8 TWP 8S RGE 18W  
(Map) From Plainville 9 north 1 w 1/2 S 2 1/2 W 3/4 N.  
COUNTY Rooks STATE Kansas  
ELEVATION: 1942 K.B., 1937 G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-163-24315  
GEOLOGY BY Janel Staab

# PERTINENT WELL DATA

CONTRACTOR Shields Drilling Co. (5184)

RIG 1 HYDRAULICS Beth 225 6X14

DRILL PIPE 4 1/2' X H COLLARS 6 1/4" 233'

CASING: SURFACE 8 5/8" @ 214' w/150 SXCommon

PRODUCTION 5 1/2" @ 3443 w/150 SXCommon

DRILLING FLUID: COMPANY Mud-Co/Service Mud Inc

TYPE: Chemical Gary Schmidtberger

REMARKS: Full Service

DRILL STEM TESTS: COMPANY Trilobite Testing Inc

NUMBER OF TESTS 3

ELECTIC LOGS: COMPANY ELI

DETAIL (5") 2800 - RTD

TYPE DI, Comp N-D, Micro

DRILLING TIME FROM 2830 TO RTD

SAMPLE TIME FROM 2830 TO RTD

SUPERVISION FROM 2830 TO RTD

VERTICAL DEVIATION 3/4 @ 3110

PLUGGING REPORT \_\_\_\_\_

RESERVE PIT \_\_\_\_\_



# DRILL STEM TESTS

NO	INTERVAL	IFT/TIME	ISIP/TIME	FFF/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1	Topela-Toronto 3018-3110	48-121 10	1087 60	130.325 60	1082 90	1464 1394	120' GO 30% G 70% 120' Gwocm 10% G 170' Gwocm 10% G 300' Gwocm 10%
2	LKC-A-D 3108-3184	34-53 10	1131 60	54-123 60	1124 90	1496 1470	230' SOCM 2
3	Arb 3369-3409	75-123 5	1117 60	153.462 60	1084 90	1737 1643	120' Gmco 40% 114' GO 30% G 880' GIP
4							
5							
6							
7							
8							

## MUD RECORD

CHK	DEPTH	WT	VIS	FIL	CHL	YP	LCM
1	1517	9.2	29	NC	17000	-	Nil
2	2540	9.3	29	NC	34000	-	Nil
3	3110	8.9	60+	7.2	1800	30	2
4	3184	9.1	57	6.8	1900	25	2
5	3440	9.0	59	7.4	1800	37	2
6							
7							
8							
9							
10							
11							

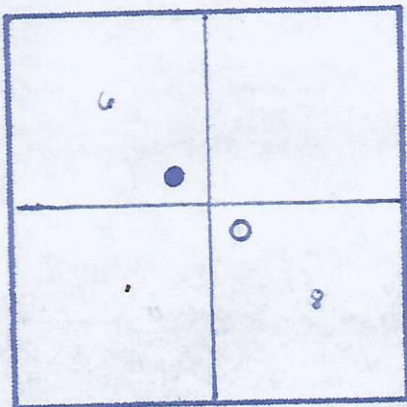
## BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTH	FEET	HOURS
1	12 1/4"	Reed	Mill Tooth	217'	217'	7 3/4
2	7 7/8"	Reed	S-52	3440	3223	74 3/4
3						
4						

# FORMATION TOPS & STRUCTURAL GEO

REFERRED TO:

A: Hayes #1  
 B: \_\_\_\_\_  
 C: \_\_\_\_\_  
 D: \_\_\_\_\_  
 E: \_\_\_\_\_



oil  
 20% W 50% M  
 30% W 50% M  
 90% W 90% M

oil  
 30% G  
 0% O

STRATIGRAPHIC MARKERS	SUBJECT WELL		STRUCTURAL POSITION		
	SAMPLE	E. LOG	DATUM	A	B

Anhydrite	1357	1360	+582	+595		
Base	1393	1395	+547	+562		
Topeka	2865	2869	-927	-933		
Heeb Sh	3071	3075	-1133	-1137		
Toronto	3096	3097	-1155	-1160		
Lansing	3114	3116	-1174	-1178		
BKC	3329	3335	-1393	-1400		
Arbuckle	3377	3379	-1437	-1455		
TD.	3400	3444	-1502	-1514		

\*Structural position of subject well as compared to refer

n 6 7

The Haines #1 was drilled using Shield  
 Location was Sec 8, T 8S, R 18W in  
 Kansas starting on August 9, 2016 and  
 pipe on August 16, 2016

3-D Seismic had indicated that this  
 had a Arbuckle high compared to surro  
 drilled locations.

3 - DST's and logs were ran  
 #1 + #3 had positive results. Logs con  
 that this location was structurally high  
 confirmed DST results as well as samp

As a result production pipe was r  
 And focus areas will be in the Arbuc  
 Lower topeka + Toronto + F zone of LKC

*Paul Seab*

Rig.  
 Co.  
 sat  
 Location  
 ending  
 DST's  
 Armed  
 and  
 lbs.  
 an  
 de and

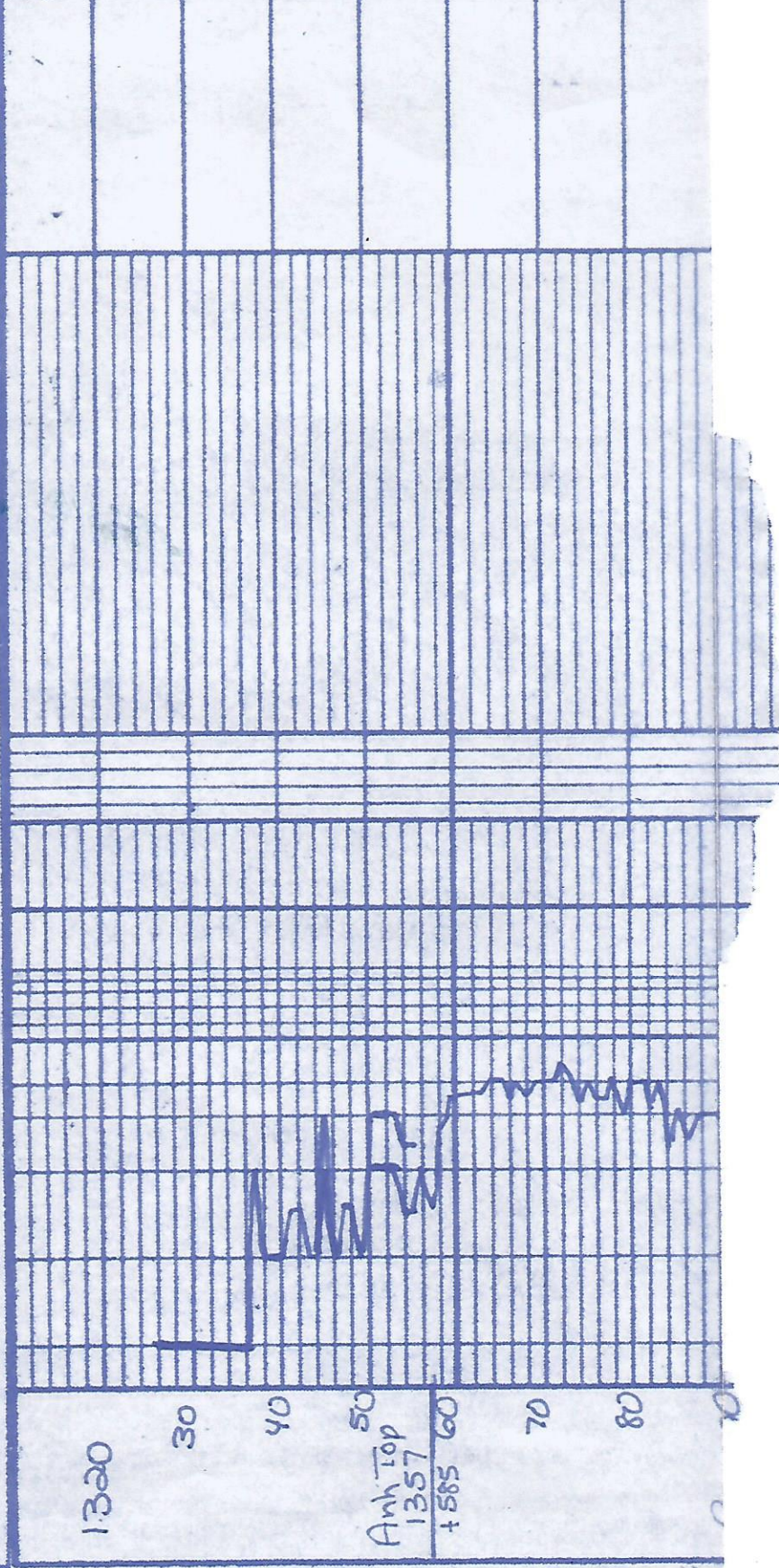
REMARKS

LITHOLOGY (LAGGED)

ρ & SHOWS  
 POOR  
 FAIR  
 GOOD  
 DST

DRILLING TIME (min/ft)

1/2 1 2 3 4 5 6 7 8 9 10

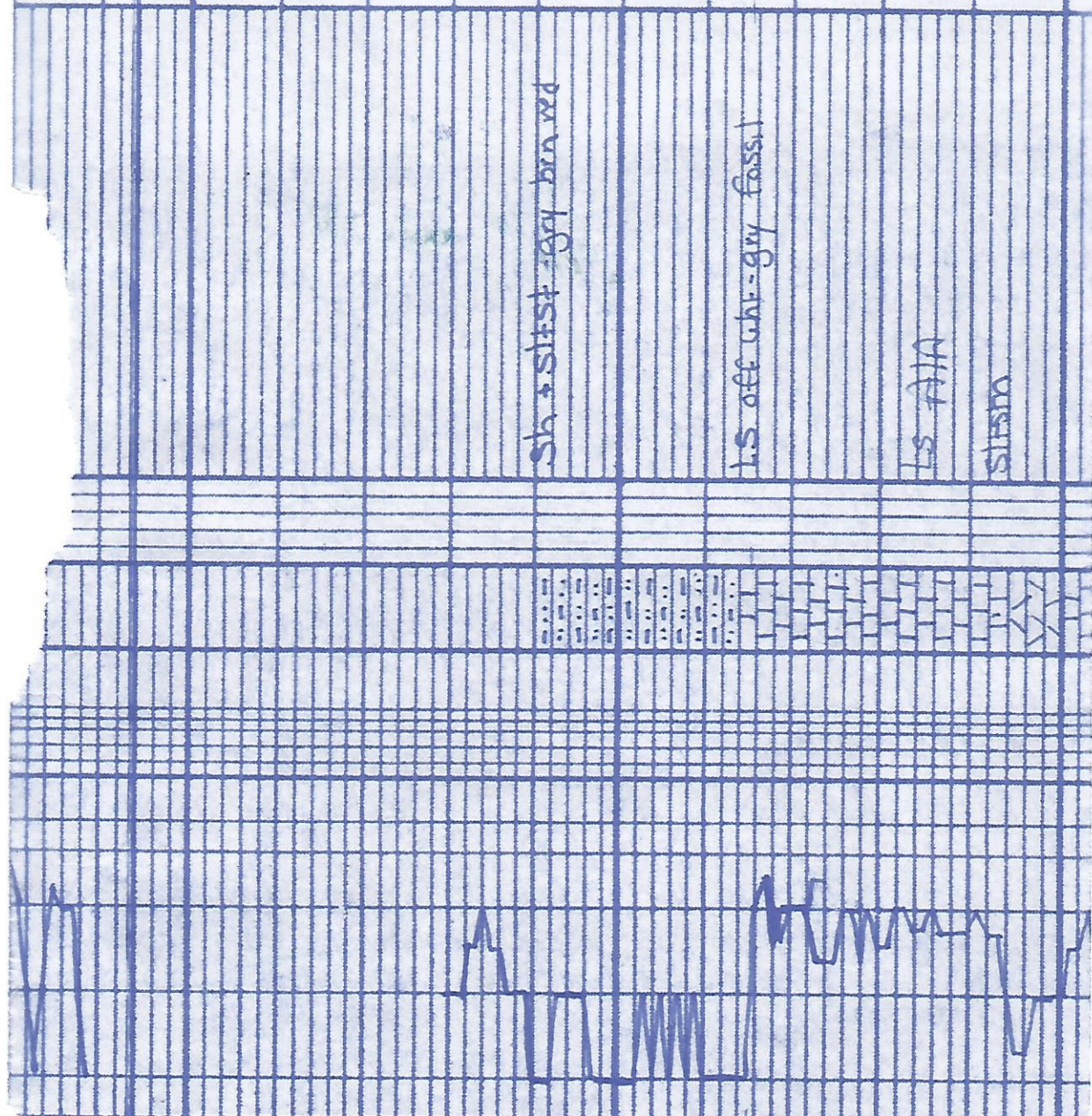


1065  
1393 + 54  
1400

2800

10  
20  
30  
40  
50  
60  
70  
80  
90  
2900

Topokg  
2865  
-923



Sh + siltst - grey brown red

L.S. off wht - grey fossilif

L.S. AHA

Siltst

Geo on location  
@ 4:30 p.m.  
8-12-16



Sh. gray

LS off wh. - tan. brn. fossil  
sl. cherty

LS off wh. fossil brn. fossil  
sl. cherty sl. cherty

sh. BK

LS off wh. - tan. brn. fossil  
fossil

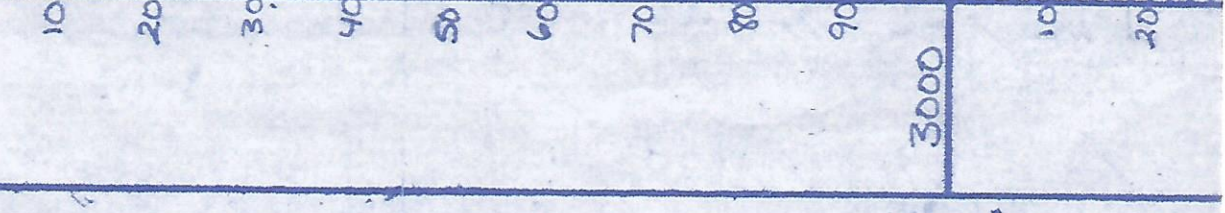
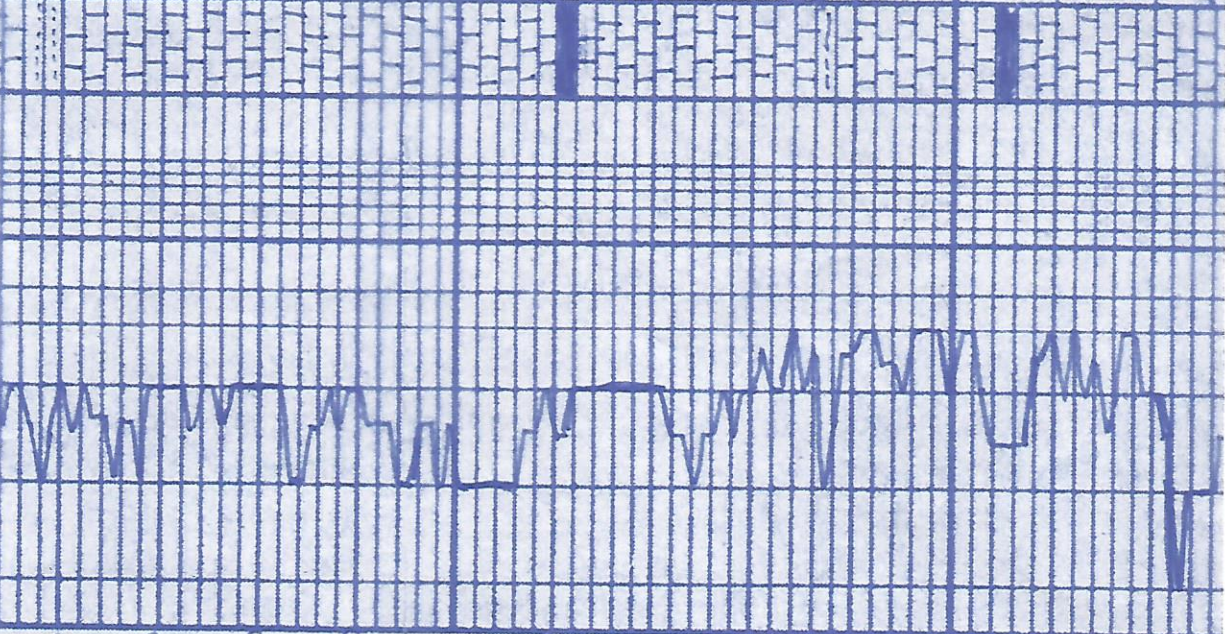
LS wh. - off wh. fossil. V. fossil  
sl. pyrite

sh. BK

LS off wh. - gray fossil  
fossil

LS off wh. fossil. fossil fossil  
good, top part of good color. Sh. BK

OST #1  
Top - Toronto



30 40 50 60 70 80 90 100

Heeb  
3071 -1129

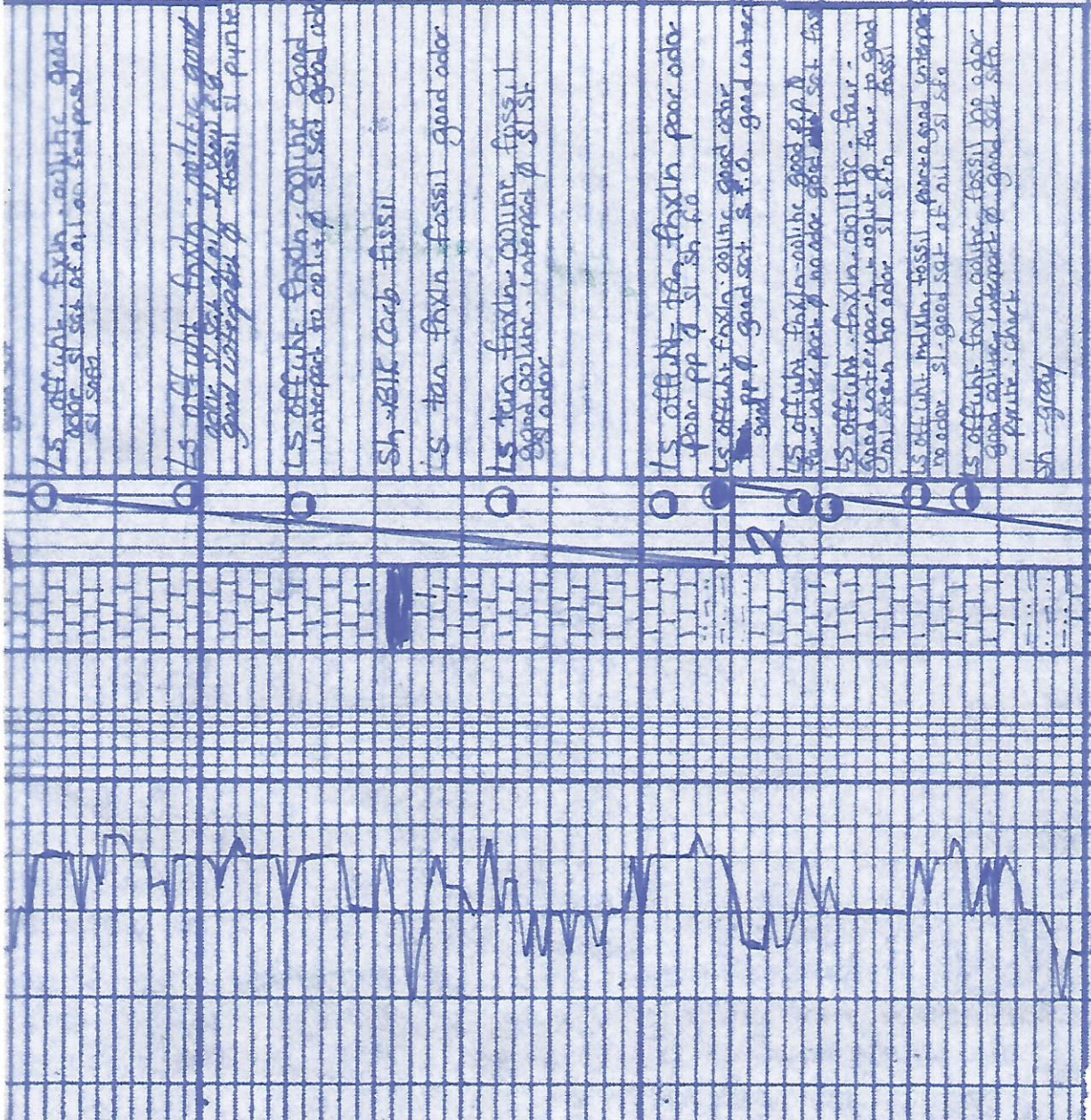
Toronto  
3096 -1154

3100

LXC  
3114 -1172

10 20 30 40 50

A B



3018' - 3110'

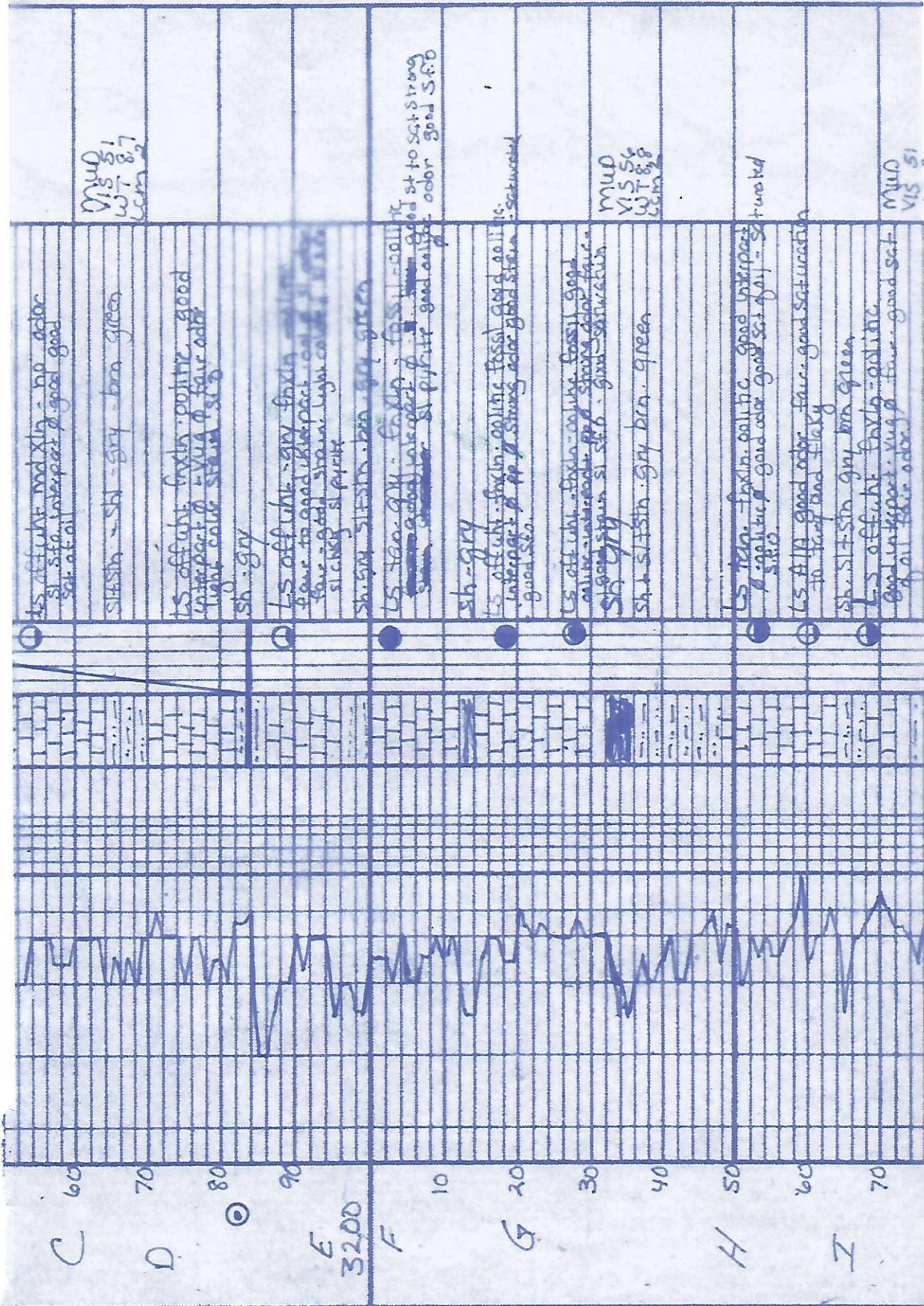
10' 60.60.90  
Rec 120' 60 7080:1  
120 GWOCM 20% oil

170' GWOCM 10% oil  
300' OMCW 1% oil  
FP 48-121 130-325  
SIP 1087-1082

MUD  
VIS 60 +  
WT 8.9  
Lcm 2

DST #2  
3108-3184  
Wt. 40  
10-60-60-90  
Rec. 230-300cm  
FP 34.43 54.123  
SIP 1181-1124

MUD  
VIS 51  
WT 8.4  
Lcm 2.4



MUD  
VIS 81  
W.T. 8.7

LS off white nod xlg - no odor  
sl. silt. interpart. good sat.

sh - grey - brn green

LS off white - gray - politic. good  
interpart. - vug. fair odor  
light color sh - grey

sh - grey

LS off white - gray - politic. good  
interpart. - vug. fair odor  
light color sh - grey  
sl. silt. interpart. good sat.

sh - grey - brn green

LS off white - gray - politic. good  
interpart. - vug. fair odor  
light color sh - grey  
sl. silt. interpart. good sat.

sh - grey

LS off white - gray - politic. good  
interpart. - vug. fair odor  
light color sh - grey  
sl. silt. interpart. good sat.

LS off white - gray - politic. good  
interpart. - vug. fair odor  
light color sh - grey  
sl. silt. interpart. good sat.

sh - grey - brn green

MUD  
VIS 56  
W.T. 8.8

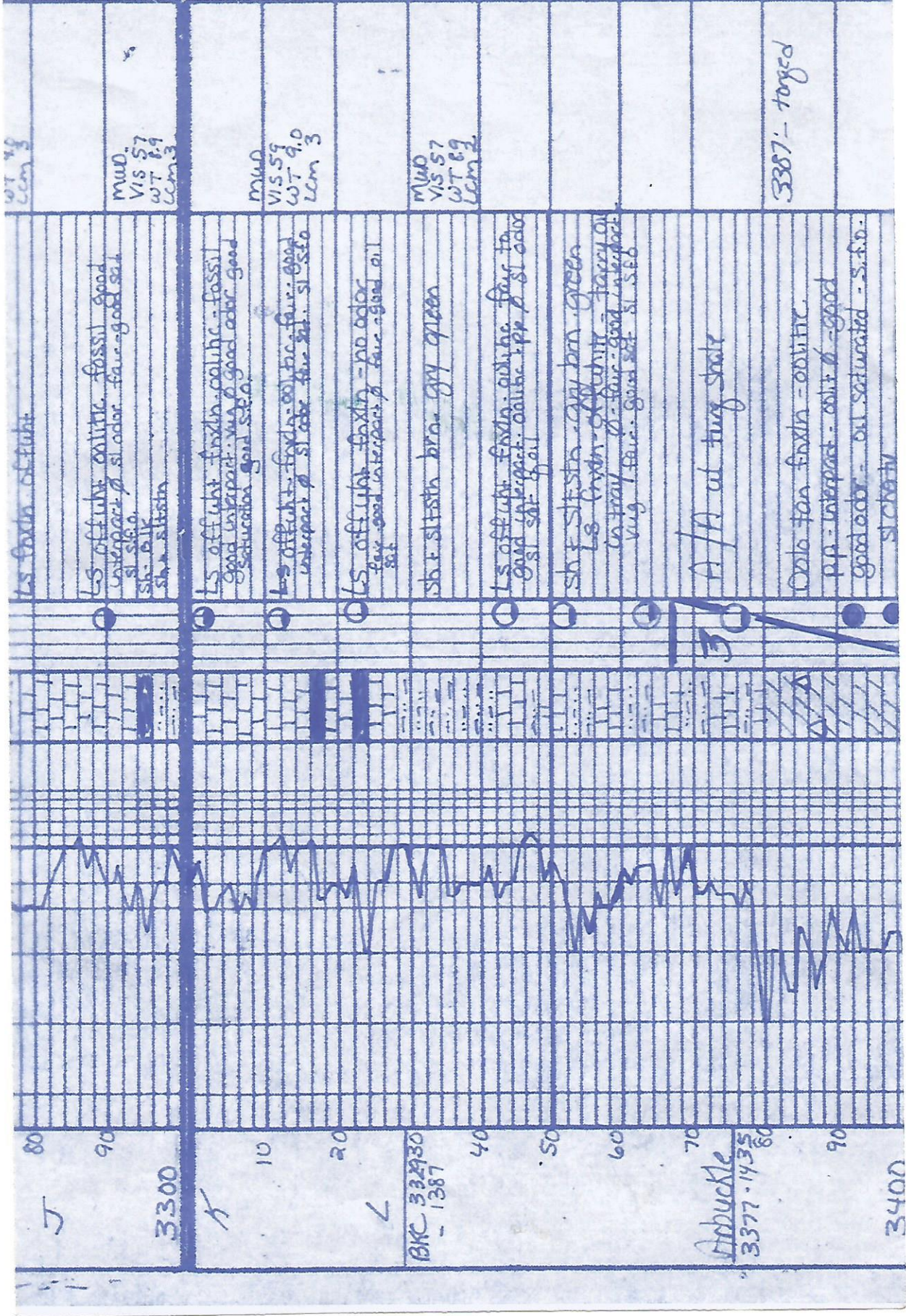
LS off white - gray - politic. good  
interpart. - vug. fair odor  
light color sh - grey  
sl. silt. interpart. good sat.

LS off white - gray - politic. good  
interpart. - vug. fair odor  
light color sh - grey  
sl. silt. interpart. good sat.

sh - grey - brn green

LS off white - gray - politic. good  
interpart. - vug. fair odor  
light color sh - grey  
sl. silt. interpart. good sat.

MUD  
VIS 51



WT 1.0  
Lcm 3

LS fossils of light  
LS off light calc. fossil good  
interpart. p. sl odor. fair-good sat  
sh. calc.  
sh. siltsin

MUD.  
VIS 57  
WT 8.9  
Lcm 3

LS off light. fossils. calc. - fossil  
good interpart. v. good odor. good  
saturation good sat.

MUD  
VIS 59  
WT 9.0  
Lcm 3

LS off light. fossils. calc. - fair. good  
interpart. p. sl odor. fair. sil. sil. sil.

LS off light. fossils. - no odor  
fair good interpart. p. fair. good oil  
sat.

MUD  
VIS 57  
WT 8.9  
Lcm 3

sh. siltsin brn. gray green

LS off light. fossils. calc. - fair to  
good interpart. calc. pp. p. sl odor  
sl sat. good

sh. siltsin. gray brn. green  
LS. fossils. calc. - fair to  
good interpart. p. - fair - good  
interpart. v. good sat. sil. sil. sil.

A/A at top shale

3387 - topped

Only top fossils - calc.  
pp. - interpart. - calc. p. - good  
good odor. - oil saturated - s. f. o.  
siltsin

J

3300

K

10

20

L

BKC 332930  
- 1387

40

50

60

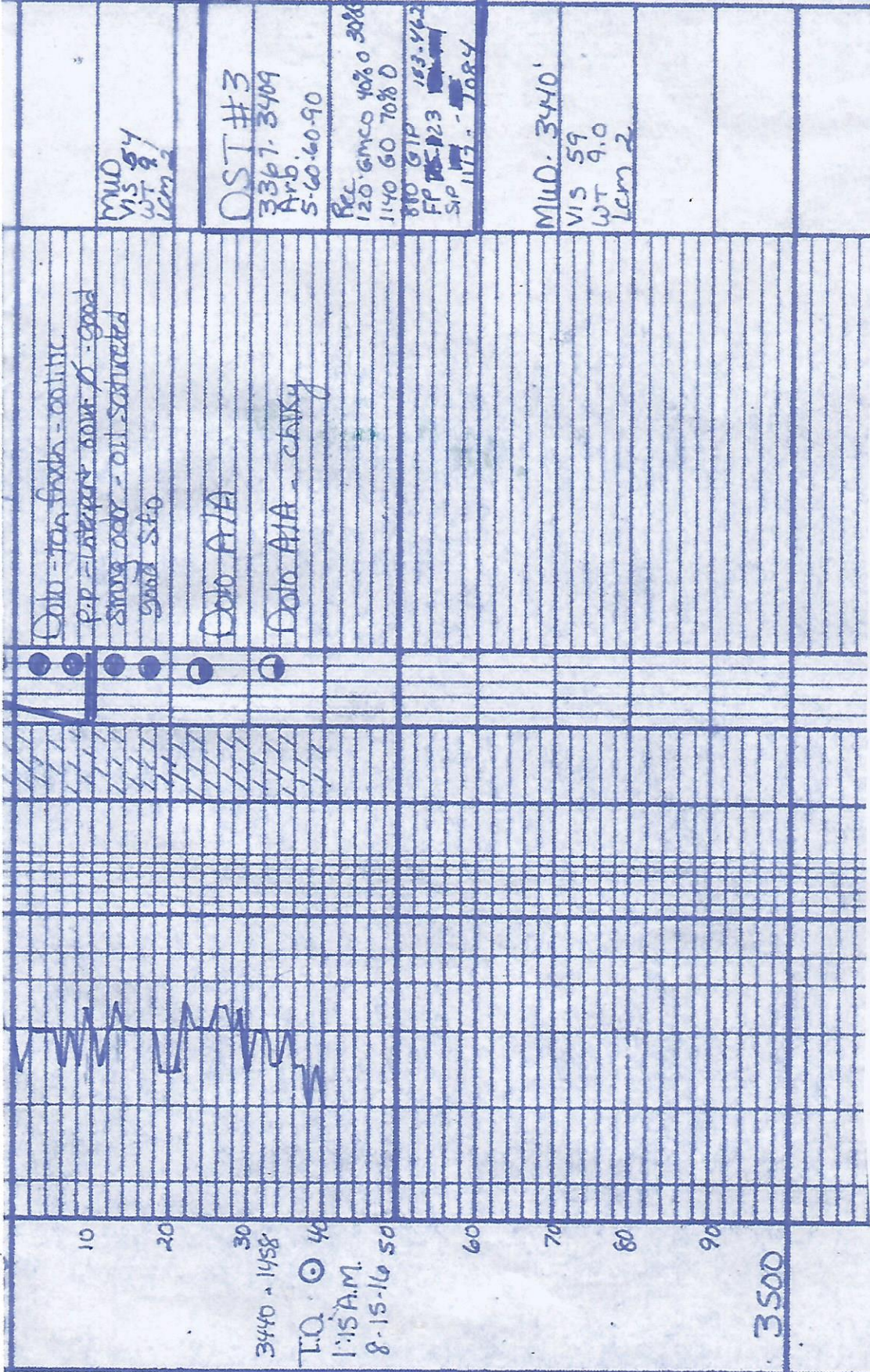
70

Arbuckle  
3377-1435

80

90

3400



Dolo - tan frags - anhydric  
 p.p. = interpart cov. 0 - good  
 Strong odor - oil saturated  
 Good Sifo

Dolo A/A

Dolo A/A - chalky

MUD  
 VIS 6.4  
 WT 9.0  
 LCM 2

OST #3  
 3367-3409  
 Arb.  
 5-60-60-90

Rec.  
 120 GMCO 40% 0 3086  
 1140 60 70% 0  
 610 GIP  
 153-462  
 FP 15-123  
 SIP 1173 - 7084

MUD. 3440  
 VIS 5.9  
 WT 9.0  
 LCM 2

10  
 20  
 30  
 3440 - 1458  
 T.O. 40  
 1:15 A.M.  
 8-15-16 50  
 60  
 70  
 80  
 90  
 3500