

1270107



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Geologist Report / Mud Logs	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

- Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
- Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
- Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i>			PRODUCTION INTERVAL: Top _____ Bottom _____	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:
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Customer: <u>Hertel Oil Company LLC</u>	Lease No.:	Date: <u>8-8-15</u>
Lease: <u>Hertel E STATE</u>	Well #: <u>1</u>	
Field Order #: <u>12702</u>	Station: <u>Pratt</u>	Casing: <u>5 7/8</u> Depth: <u>220</u> County: <u>Ellis</u> State: <u>KS</u>
Type Job: <u>CNW SURFACE "8 7/8"</u>	Formation:	Legal Description: <u>36-13-17</u>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size: <u>8 7/8</u>	Tubing Size:	Shots/Ft:		Acid: <u>175 SK</u>	RATE: <u>60/40 PPM</u>	PRESS:	ISIP:	
Depth: <u>220</u>	Depth:	From:	To:	Pre Pad: <u>320 cc 1/4</u>	Max: <u>C.F.</u>		5 Min.	
Volume:	Volume:	From:	To:	Pad:	Min:		10 Min.	
Max Press: <u>300</u>	Max Press:	From:	To:	Frac:	Avg:		15 Min.	
Well Connection: <u>S V</u>	Annulus Vol.:	From:	To:		HHP Used:		Annulus Pressure	
Plug Depth: <u>205</u>	Packer Depth:	From:	To:	Flush: <u>13</u>	Gas Volume:		Total Load	

Customer Representative: Mike Hertel Station Manager: Kevin Guidley Treater: Mike Matta

Service Units: <u>37586</u>	<u>19889</u>	<u>19843</u>	<u>19960</u>	<u>19862</u>				
Driver Names: <u>MIATT</u>	<u>ERNSI</u>		<u>McGraw</u>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					ON location, safety meeting
8:00					Run 8 7/8 casing
8:30					Casing on bottom
8:35					Hook to casing / Bureau of W. KY
8:52	150		3	4	Pump 3 bbl water
8:55	100		35	4	Mix 175 SK 60/40 PPM
9:00	100		1	4	START DISPLACEMENT
9:08	100		-	-	Shut in well 5 BBLs slurry in well
					JOB COMPLETE
					THANK YOU!
					MIKE MATTA
					SHAWN + E.J.

Randall Kilian Corporation

Geologist



**Certified Petroleum
Geologist #3351
License #224**

3951 Eveningglow Way
Castle Rock, CO 80104
Phone: 720-733-0420
Cell: 785-635-1349

E-mail: rkgeo53@hotmail.com

GEOLOGIST'S WELL REPORT

COMPANY HERTEL OIL CO. LLC (33625)

WELL Hertel Estate #1

FIELD Wildcat

LOCATION (legal) NE NE NW

(footages) 330' FNL. & 2310' FWL

Section 36 TWP 13S RGE 17W

(Map) 1/4 mi N & 1/4 mi W of I-70
Victoria Exit

COUNTY Ellis STATE Kansas

ELEVATION: 1981' K.B., 1973' G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-051-26798

GEOLOGY BY Randall Kilian

PERTINENT WELL DATA

CONTRACTOR DISCOVERY DRILLING (31548)

RIG #4 HYDRAULICS D-375 6x14x60
(Mike Gaschler TP)

DRILL PIPE 4½" X-H COLLARS 6¼" 17 (517')

CASING: SURFACE 8 5/8" @ 220' w/ 175 sx Common
PRODUCTION _____

DRILLING FLUID. COMPANY Kansas Drilling Tech.
(Ken Rupp)

TYPE: Chemical

REMARKS: Full service

DRILL STEM TESTS: COMPANY _____

NUMBER OF TESTS _____

ELECTIC LOGS: COMPANY Gemini Wireline LLC

DETAIL (5") 2900' - RTD

TYPE RAG

DRILLING TIME FROM 2900' TO RTD

SAMPLE TIME FROM 2900' TO RTD

SUPERVISION FROM 2900' TO RTD

VERTICAL DEVIATION 3/4° @ 220', ½° @ 3575'

PLUGGING REPORT 50 sx @ 1160', 100 sx @ 600', 50 @ 270'
10 @ 40', 30 Rat, 15 Mouse, 255 sx 60/40 Poz

RESERVE PIT 500 bbls., Chl. 77,000 Ca 1100

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	IHP/FHP	RECOVERY
1							
2							
3							
4							
5							
6							
7							
8							

MUD RECORD

CHK	DEPTH	WT	VIS	FIL	CHL	YP
1	2896'					
2	2934'	8.4	46	8.8	4k	12
3	3050'	8.5	46			
4	3150'	8.6	50			
5	3300'	8.7	51			
6	3387'	9.1	51	8.0	9k	18
7	3480'	9.1	58			
8						
9						
10						
11						

Displaced

LCM 3½#

LCM 2#

BIT RECORD

NO	SIZE	MAKE	TYPE	DEPTH/OUT	FEET	HOURS
1	12½"	CJZ	ADC437	220'	220'	3
2	7 7/8"	FTC	GX20G	3575'	3355'	63 ½
3						
4						
5						
6						
7						
8						

SUMMARY

The Hertel Estate #1 well was drilled with Discovery Drilling tools rig #4 beginning August 8, 2015 and drilling was completed August 13, 2015.

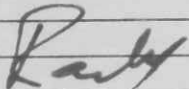
The drill site was located after re-processing and re-interpreting 3-D seismic records.

The well ran high structurally to nearby dry holes down through the BKc. Very poor development and oil shows were encountered. Conglomerate was encountered where the Arbuckle should have been.

The 3-D seismic has a very difficult job determining between conglomerate and Arbuckle dolomite in this section.

Based upon all data, the well was plugged as a dry hole.

Respectfully,



Randall Kilian

recovery
and

and

les
and oil
entered

aining
this section
a dry hole.

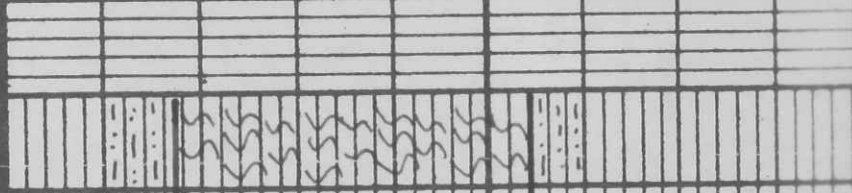
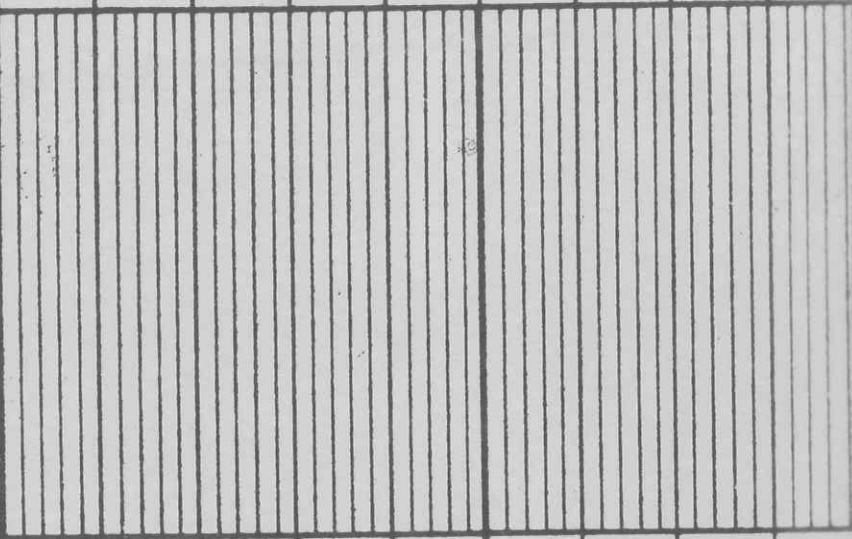
REMARKS

LITHOLOGY (LAGGED)

φ & SHOWS
POOR
FAIR
GOOD
DST

DRILLING TIME (min/ft)
1/2 1 2 3 4 5 6 7 8 9 10

40
ANH. 1150
60
70
80
Base



Discarded 207

Mud
Vis. - 46 Y.P. - 12
WT. - 8.4 Chl. - 9.4
WL. - 8.8 LCM - 3 1/2

geo on location
7:00am 8-11-15

sh. silt - gry - brn.

ls - tan - gry - fn. - fn. fossil.

sh - gry

ls - tan; brn - gry - fn. - fn.
fossil.

sh. silt - gry - brn.

ls - tan - gry - fn. - fn. fossil
sl. chalky.

2900

10

20

30

40

50

Top. 60

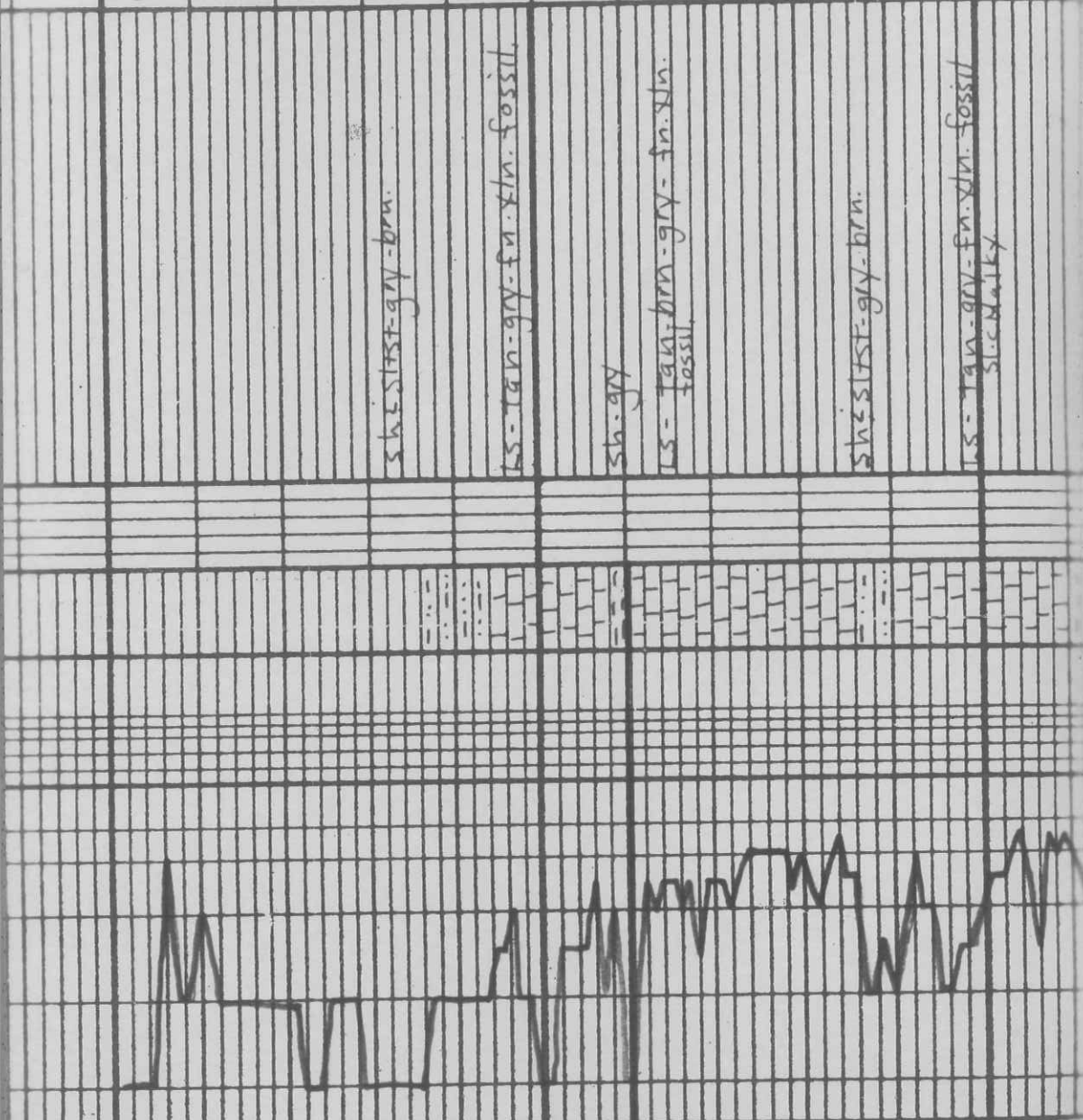
70

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2900

10



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 16685-16695
 16705-16715
 16725-16735
 16745-16755
 16765-16775
 16785-16795
 16805-16815
 16825-16835
 168

Mud
U.S. - 50
WT. - 8.6

LS - off wh - tan - fr. xln.
fossil sil. ch. lky.

LS 9a.

LS - sl. dolo. tan - fr. xln - med
sl. ch. lky. sil. ch. lky. str. in
5% p

LS - off wh - tan - fr. xln.
fossil

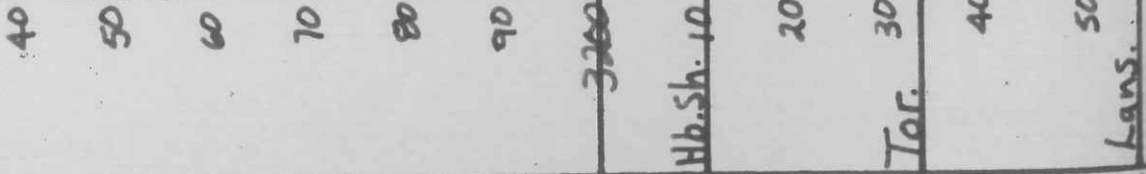
sh. blk. carb. fissile

LS - tan - fr. xln.

sh & sil. st - gr. - brn - gr. in.

LS - sl. dolo. tan - gr. - fr. xln.
sl. ch. lky. sil. ch. lky.

sh & sil. st - gr. - brn - gr. in.



Disc. sl. dead ool. st. in
sl. ϕ .

sh. st. st. gry. brn.

LS - offwh - lgry - fn. xln.
sl. ool. sl. fossil w/ poor
oom & in part ϕ sl. ool. st.
sl. ool. sl. chalky

Sh-gry

LS - tan - gry - fn. xln. fossil, med
poor white part ϕ sl. ool.
st. in ϕ sl. x

Mud
Vis. - 51
WT. - 8.7

sh. dark gry - brn - grn.

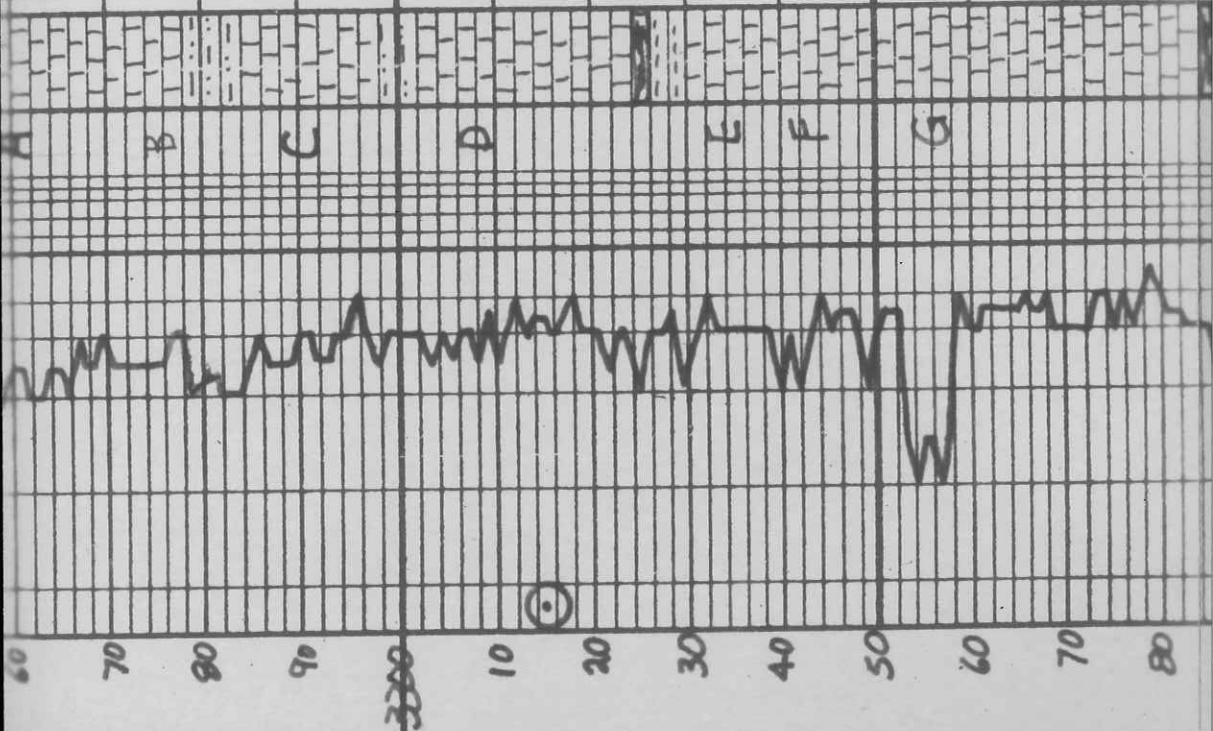
LS - offwh - lgry - fn. xln.
fossil, sl. chalky

LS. & lg.

LS - offwh - lgry - fn. xln. ool.
w/ poor ool. ϕ sl. ool.
st. in 5% ϕ sl. chalky

LS - offwh - lgry - fn. xln. ool. Δ

sh. blk. carb



Sh. blk. sand

sh. siltst. - gry. - brn. - grn.

ls. - 1901 - brn. - gry. - fr. - sh. - fossil. - Δ

sh. - gry.

ls. - offwh. - 17 gry. - fr. - sh. - fossil. -
w/ pebbles in top part of sh. - siltst.

sh. - gry.

ls. - offwh. - 17 gry. - fr. - sh. - fossil. -
s. - ed. w/ pebbles in top part of sh. -
siltst. - chalky. - siltst.

sh. - blk. carb.

sh. siltst. - gry. - brn. - grn.

ls. - offwh. - 17 sh. - fr. - sh. - fossil. -
siltst. - chalky. - siltst.

sh. - blk. fissile

ls. - offwh. - 17 gry. - fr. - sh. - Δ

sh. siltst. - gry. - brn. - grn.

ls. - offwh. - 17 gry. - fr. - sh. - Δ

90

2400

10

20

30

40

50

60

70

80

90

BKc

3500

Mud
Vis. - 50
wt. - 8.9

Mud
Vis. - 51 Y.P. - 1
wt. - 9.1 Chl. -
wt. - 8.0 LCM. -

Mud
Vis. - 58
wt. - 9.1

H

I

J

K

L

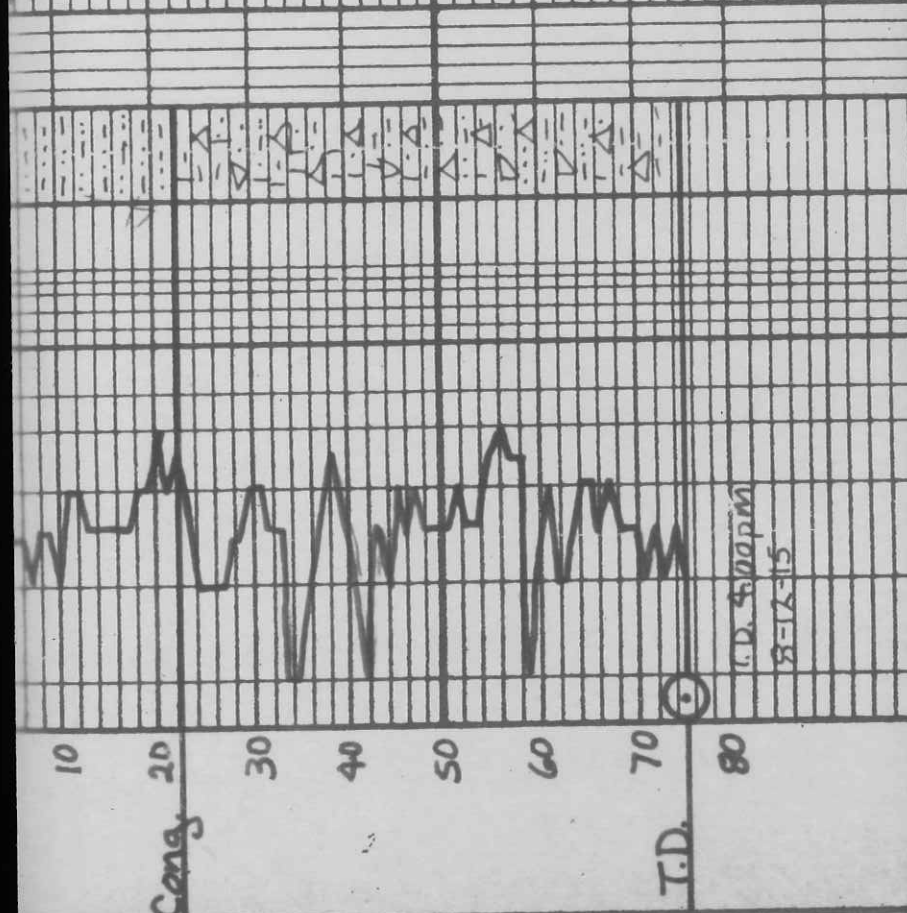
Wash near



V, Δ wt brn = 15% Δ
 red = brn. STSE.

g/a

g/a



8-13-15