

1312750

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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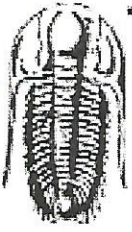
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Staab Oil Co., a General Partnership
Well Name	Toulon Staab 1A 1
Doc ID	1312750

Tops

Name	Top	Datum
anhydrite	1328	778
base	1375	724
Topeka	3099	-1000
Heebner	3336	-1237
Toronto	3358	-1259
Lansing	3386	1287
BKC	3609	1510
T.D.	3686	-1587



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Staab Oil Co.
1607 Hopewell Rd.
Hays, KS 67601
ATTN: Janel Staab

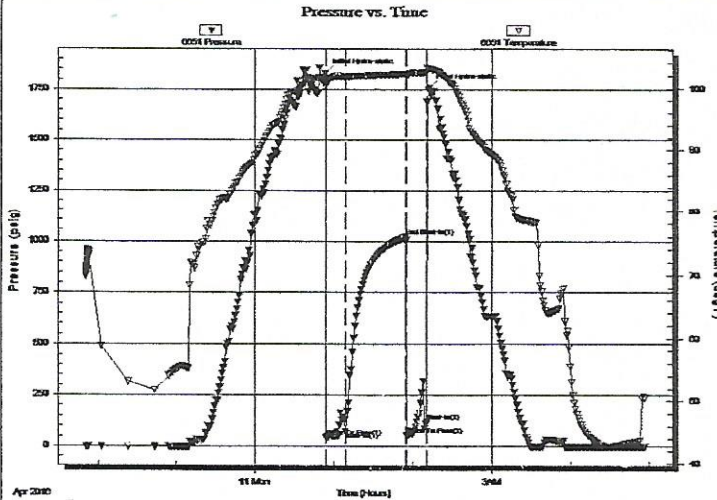
30-12s-17w Ellis, KS
Toulon Staab 1A #1
Job Ticket: 58078 **DST#: 1**
Test Start: 2016.04.10 @ 21:50:35

GENERAL INFORMATION:

Formation: **LKC "I - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:54:05
 Time Test Ended: 04:56:05
 Interval: **3503.00 ft (KB) To 3575.00 ft (KB) (TVD)**
 Total Depth: 3686.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2095.00 ft (KB)
 2089.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6651 **Inside**
 Press@RunDepth: 73.17 psig @ 3505.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.04.10 End Date: 2016.04.11 Last Calib.: 2016.04.11
 Start Time: 21:50:36 End Time: 04:56:05 Time On Btm: 2016.04.11 @ 00:53:35
 Time Off Btm: 2016.04.11 @ 02:12:35

TEST COMMENT: 15- IF- Slowly built to .5"
 45- IS- No blow
 15- FF- No blow Pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.98	101.61	Initial Hydro-static
1	44.52	100.25	Open To Flow (1)
16	73.17	101.70	Shut-In(1)
61	1018.42	102.27	End Shut-In(1)
62	52.49	101.99	Open To Flow (2)
77	121.29	102.63	Shut-In(2)
79	1757.83	103.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

GLOBAL CEMENTING, L.L.C.

REMIT TO 18048 170RD
RUSSELL, KS 67665

SERVICE POINT: Russell KS.

DATE <u>4-5-16</u>	SEC. <u>30</u>	TWP. <u>12</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Traction</u>	WELL # <u>A-1</u>	LOCATION <u>Catharine 1W 2N</u>	COUNTY <u>Ellis</u>	STATE <u>KANSAS</u>			
OLD OR NEW (CIRCLE ONE)		<u>1W 2N 1/2 E 1/4 S T170</u>					

CONTRACTOR Surface Drilling Rig # "Camp" OWNER

TYPE OF JOB Surface

HOLE SIZE 10 5/8" T.D. 222'

CASING SIZE 3 3/8" New DEPTH 219'

TUBING SIZE 2 3/8" CSG DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS

DISPLACEMENT 13 1/2 BBL

EQUIPMENT

PUMP TRUCK CEMENTER Glenn B.

A-1 HELPER Cody H.

BULK TRUCK DRIVER Tad M.

B-5

BULK TRUCK DRIVER

CEMENT AMOUNT ORDERED 150 Sx Com

270 GEL

270 CC

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

321 5 New Joints of 2 3/8" CSG!

SET @ 219'

Provided Circulation.

Cement of 150 Sx Com. 242.

Displaced 13 1/2 BBL

SPUT IN @ 250'

Cement Circulated. THANKS

CHARGE TO: STAAB Oil Co. / General Partnership

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

MANIFOLD @

TOTAL

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

Global Cementing, L.L.C.,
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME George Begler

SIGNATURE George Begler

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

Janel Staab
Consulting Petroleum Geologist

2428 Toulon Ave
Hays, KS 67601
Phone: 785-625-4311
Cell Phone: 785-635-1660

GEOLOGIST'S WELL REPORT

COMPANY Staab Oil Company #6037
WELL Toulon Staab 1 A
FIELD Schmeidler
LOCATION (legal) SE-SW-SW-NE 2795' FSL 1990' FEL
Section 30 TWP 12S RGE 17W
(Map) 5 miles north of Hays on 183 to Hopewell
East 3 miles to 280th. North 1/4 miles
COUNTY Ellis STATE Kansas
ELEVATION: 2099 K.B., 2094 G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-051-26825-00-00

GEOLOGY BY Janel Staab

PERTINENT WELL DATA

CONTRACTOR Shields Drilling Company #5184

RIG #1 HYDRAULICS Beth 225 6x14x60

DRILL PIPE 4 1/2" X-H COLLARS 6 1/2" x 2 1/4"

CASING: SURFACE 8 5/8" - 219 w/ 150 common

PRODUCTION 5 1/2" - 3675' w/ 100 common

DRILLING FLUID: COMPANY Mud-Co/Service Mud Inc.

TYPE: Chemical

REMARKS: Full Service

DRILL STEM TESTS: COMPANY Trilobite Testing Inc

NUMBER OF TESTS 1

ELECTIC LOGS: COMPANY Cased Hole Solution

DETAIL (5") 3050' - RTD

TYPE DI, Comp N.O, Micro

DRILLING TIME FROM 3060' TO RTD

SAMPLE TIME FROM 3060' TO RTD

SUPERVISION FROM 3060' TO RTD

VERTICAL DEVIATION _____

PLUGGING REPORT _____

RESERVE PIT _____

FORMATION TOPS & STRUCTURAL GEO

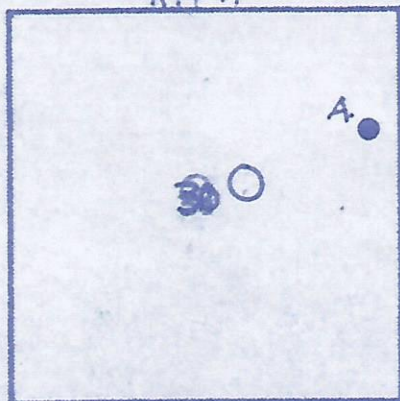
R17W

REFERRED TO:

A: Staab Oil Company
Toulon-Staab #1

B: _____
C: _____
D: _____
E: _____

T
12
S



STRATIGRAPHIC MARKERS	SUBJECT WELL			STRUCTURAL POSITION		
	SAMPLE	E. LOG	DATUM	A	B	C
Anhydrite	1327	1328	1771	+778		
Base	1370	1375	+724	+733		
Topeka	3087-1227	3099	-1000	-993		
Heebner	3326-1227	3336	-1237	-1229		
Toronto	3349-1227	3358	-1259	-1255		
Lansing	3372-1223	3386	-1287	-1278		
BKC	3591-1492	3609	-1510	-1502		
Arbuckle	←			-1551		
TD.	3675-1576	3686	-1587	-1631		

There was a discrepancy between the rig depth vs. log total depth of 11'. The rig ran 3 times and came up with same TD, each time. Due to extreme wind conditions we were unable to strap pipe. After running the DST it seemed likely that the RTD was correct.

*Structural position of subject well as compared to refer

6 7

SUMMARY

The Toulon - Staab 1-A was drilled start April 4 2016 and plugged April 11, 2016 in E 5.30, T12.5 R17W using Shields Drilling Co

This location was picked using a 3-D well showed a high location to producer Toulon

The only shows were found in the LKC which were tested and had a negative result. The Arbuckle was never encountered. As a result it was determined to plug and abandon

April Staab

D E

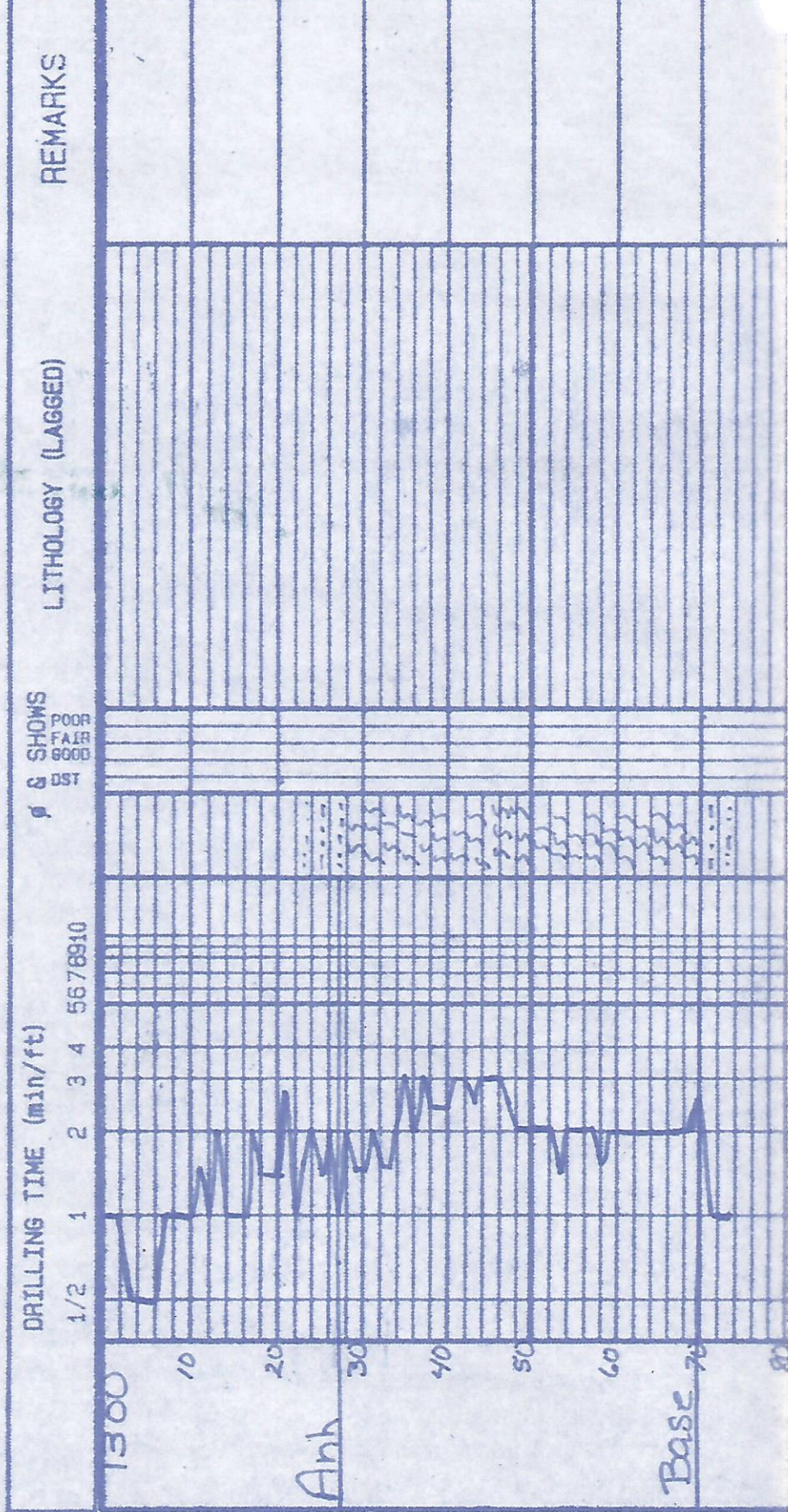
total
calculated
to
more

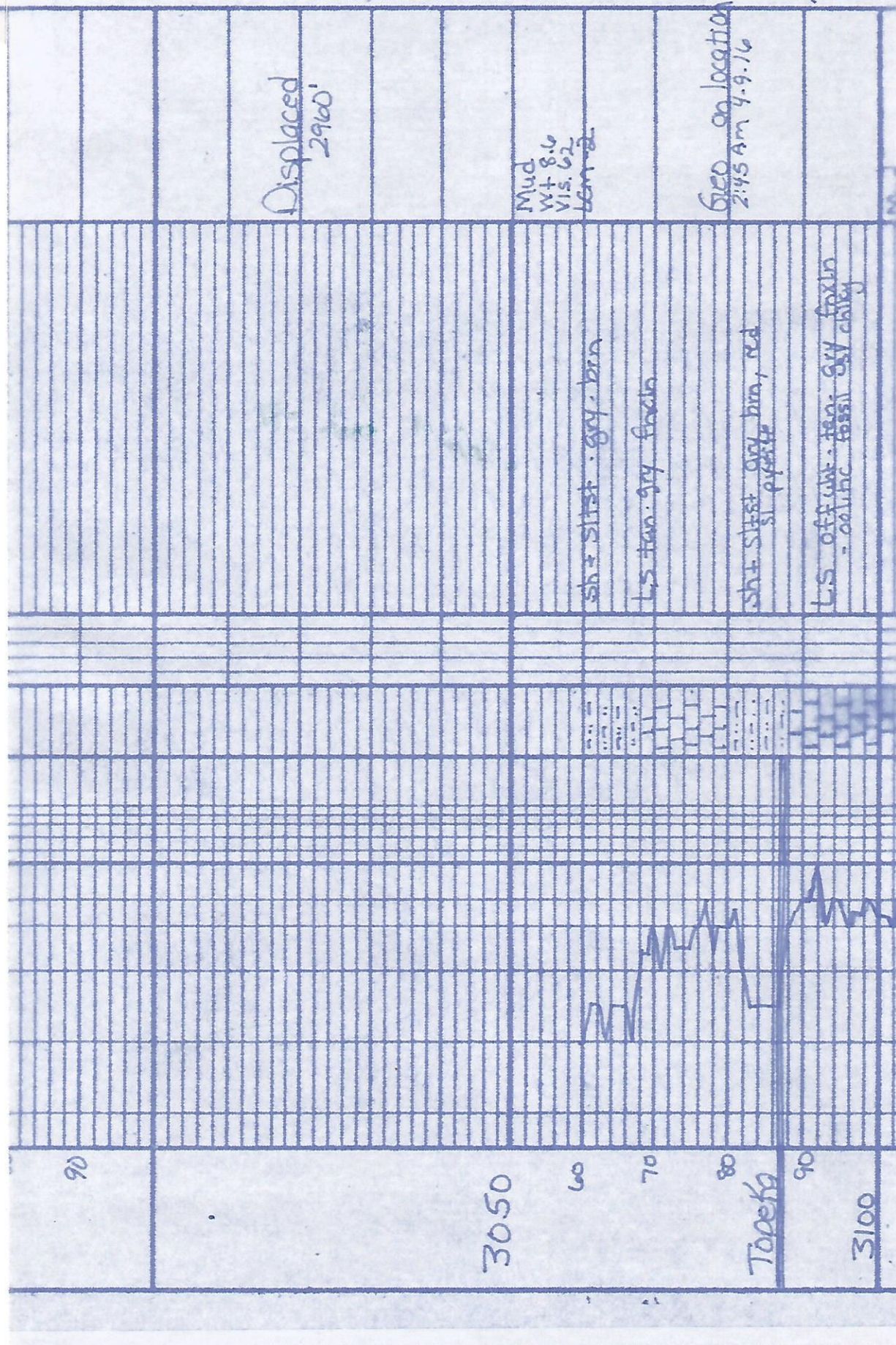
red well.

ing
Lins County

nigh
Staab

I-J zone
Sult.
result
location





Ls. ALA

wt 8.1
vis 60
Lcm 2

Ls off wht. tan. gy. fossil
st chky gy st pyrite

Ls. st. dblo. tan. gy. fossil
w. fr. in. x. in. 2

sh. blk. gry

sh. st. st. - gry

Ls. - off wht. tan. gry. - brn
fossil

Ls. off wht. tan. gry. brn
fossil st fossil

sh. st. st. - gry. brn. gry

Ls. off wht. tan. gry. fossil
fossil st chky

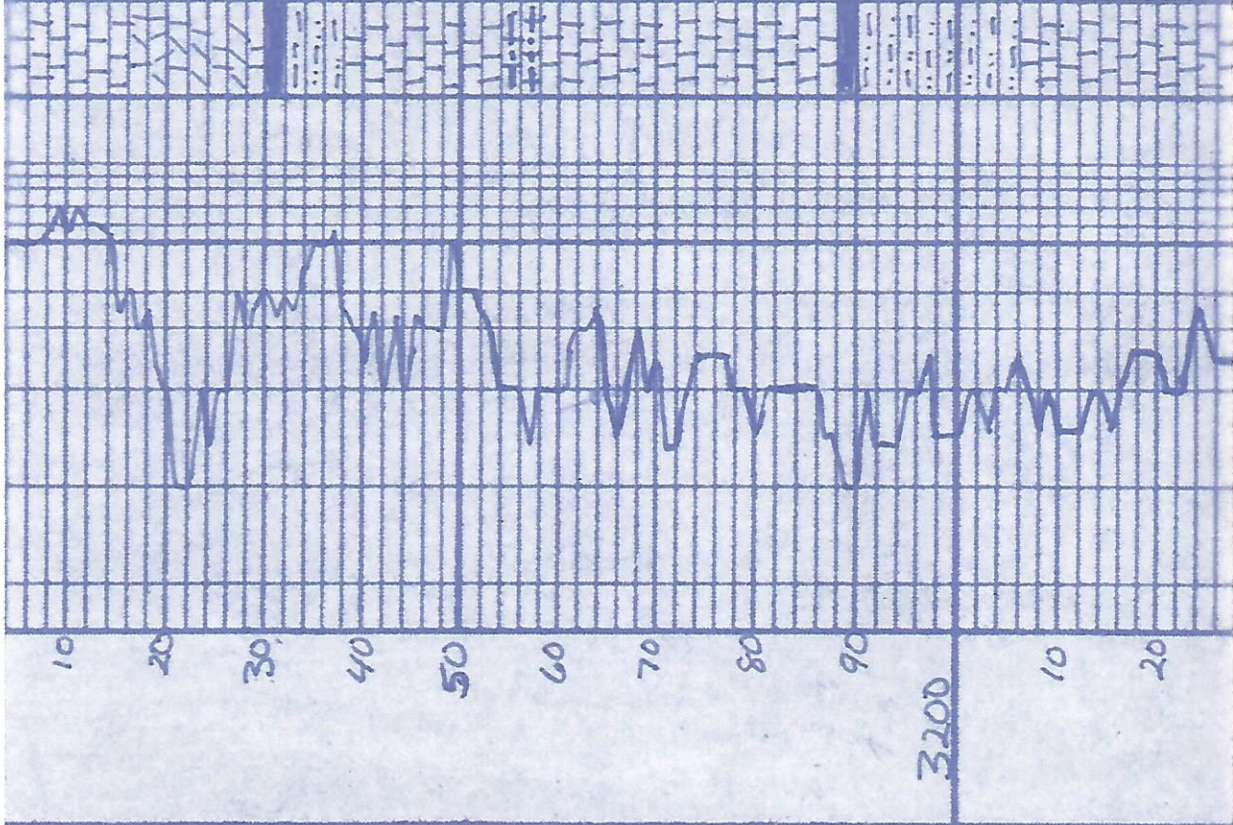
wt 8.6
vis 64
Lcm 2

Ls ALA

Sh. blk

sh. st. st. - gry. brn. red
st chky pyrite

Ls. off wht. - gry. fossil



10

20

30

40

50

60

70

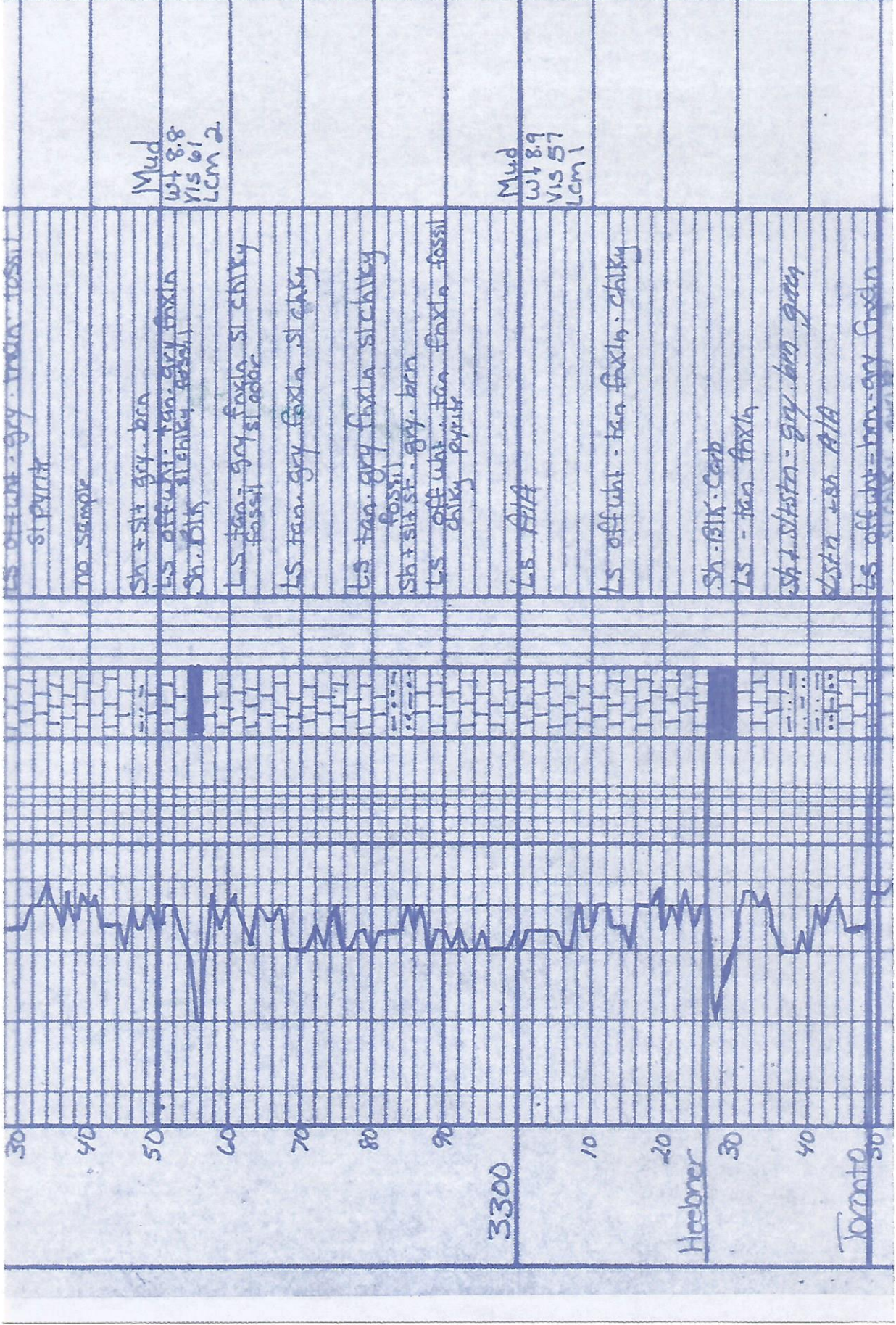
80

90

3200

10

20



LS off-white - grey - medium - fossil
st pyritic

no sample

Sh + silty grey - brn

LS off-white - tan - grey - fossil
sh - blk

LS tan - grey - fossil - silty
fossil silty

LS tan - grey - fossil - silty

LS tan - grey - fossil - silty
fossil

Sh + silty - grey - brn

LS off-white - tan - fossil - fossil
cherty pyritic

LS AIA

LS off-white - tan - fossil - cherty

Sh - blk - carb

LS - tan - fossil

Sh + silty - grey - brn - green

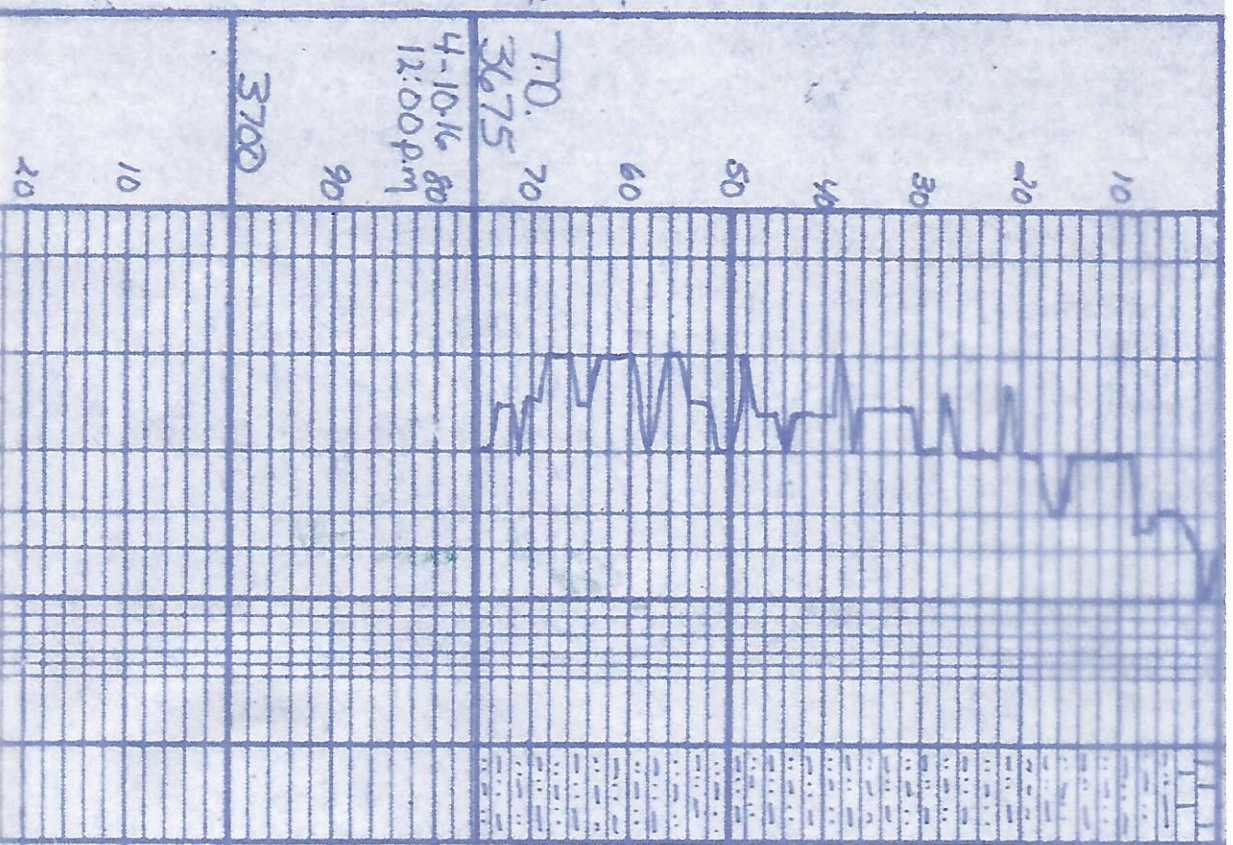
LS - sh - AIA

LS off-white - brn - grey - fossil

Mud
wt 8.8
vis 61
LCM 2.

Mud
wt 8.9
vis 57
LCM 1

off-white
tan
grey
cherty
pyritic
fossil
shaly
silty



T.D.
3675

4-10-16 80
12:00 PM

3700

sd. 1st. - grey brn red green

A/A - washed brn - red

A/A

A/A