

1373404



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 _____
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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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Form	ACO1 - Well Completion
Operator	Staab Oil Co., a General Partnership
Well Name	TODD HIXON ROAD 1
Doc ID	1373404

Tops

Name	Top	Datum
anhydrite	1759	573
base	1809	523
topeka	3377	-1045
heebner	3592	-1260
toronto	3614	-1282
lansing	3629	-1297
bkc	3861	-1529
arbuckle	4016	-1684
T.D.	4110	-1778

Janel Staab
Consulting Petroleum Geologist

2428 Toulon Ave
Hays, KS 67601
Phone: 785-625-4311
Cell Phone: 785-635-1660
janel1969@gmail.com

GEOLOGIST'S WELL REPORT

COMPANY Staab Oil Company #6037
WELL Todd Hixon Road
FIELD Vopec
LOCATION (legal) SE-NE-NW-SW, 2150 FSL, 1035 FWL
Section 9 TWP 12S RGE 21 W
(Map) I-70 Rigs Exit - North 2 1/4 miles to Rd J, 1 mile West, 370 ave.
COUNTY Trego STATE Kansas north 1 1/2 miles
in towards east
ELEVATION: 2332 K.B., 2327 G.L.

Depths measured from Kelly Bushing

A. P. I. NUMBER 15-195-23022-00-00
GEOLOGY BY Janel Staab

PERTINENT WELL DATA

CONTRACTOR Shields Oil Producers # 5184

RIG 1 HYDRAULICS Bethlehem 225 6x14

DRILL PIPE 4 1/2" XH COLLARS 6 1/4" 233

CASING: SURFACE 8 5/8" @ 217' W/150 SX common

PRODUCTION 5/2 @ 4110' W/150 SX common

DRILLING FLUID: COMPANY Mud-Co / Service Mud Inc

TYPE: Chemical Gary Schmidtber

REMARKS: Full Service

DRILLSTEM TESTS: COMPANY Trilobite Testing Inc

NUMBER OF TESTS 4

ELECTIC LOGS: COMPANY ELI

DETAIL (5") 3300' - RTD

TYPE DI CompN-D, Micro

DRILLING TIME FROM 3340' TO RTD

SAMPLE TIME FROM 3340' TO RTD

SUPERVISION FROM 3340' TO RTD

VERTICAL DEVIATION 1° @ 3660

PLUGGING REPORT _____

RESERVE PIT _____

DRILL STEM TESTS

NO	INTERVAL	IFP/TIME	ISIP/TIME	FFP/TIME	FSIP/TIME	IHP/FHP	RECOVER
1	LKC A+B 3623- 3660	20# 32# 5'	784# 60'	34# 89# 60'	736# 90'	1800# 1735#	60' mcm - 5% oil 120' GWCm 10% oil 45' OCM 8% oil 20' MCO 95% oil
2	LKC C F 3661- 3725	21# 30# 5'	607# 60'	33# 61# 60'	553# 90'	1891# 1854#	30' OWCm 20% oil 20' OCM 5% oil 60' OCM 2% oil
3	LKC JHK 3797- 3845	-	-	-	-	-	Mis Run - Packer Fai
4	Arbuckle 4023- 4047	18# 21# 5'	1234# 60'	23# 52# 60'	1158# 90'	2063# 1964#	20' OCM 10% 20' OCM 20% 40' CO
5							
6							
7							

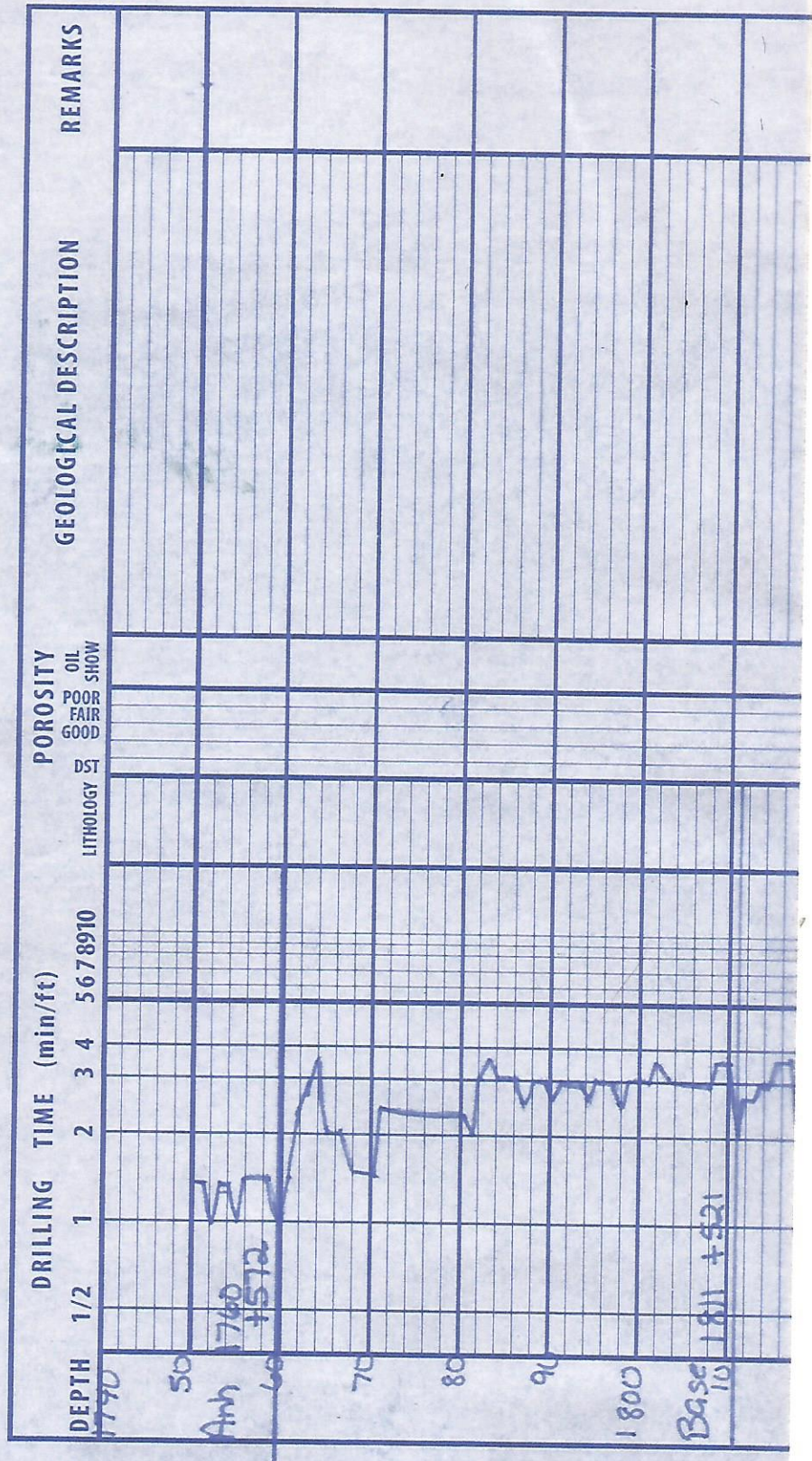
MUD RECORD

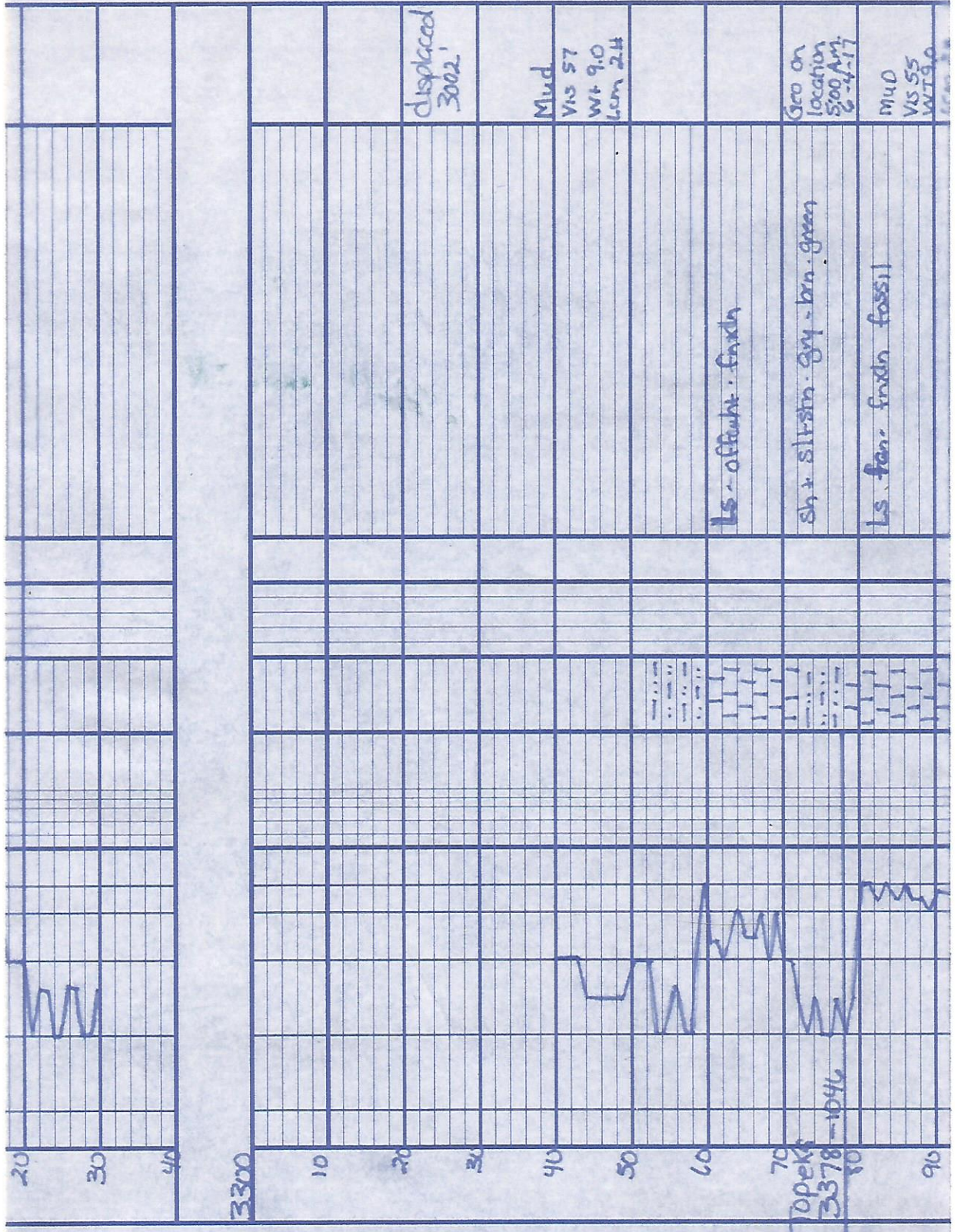
CHK	DEPTH	WT	VIS	FIL	CHL	YP	LCM
1	1209	8.8	29	-	-	-	-
2	2270	9.7	29	-	2800	-	-
3	3002	8.6	60+	6.4	4800	33	3
4	3472	9.0	50	6.8	4500	25	2
5	3660	9.1	58	6.4	4500	25	2
6	3725	9.1	58	6.4	4500	25	2
7	3936	9.4	51	7.6	4600	21	2
8	4110	9.4	56	7.6	4500	28	2
9							
10							
11							

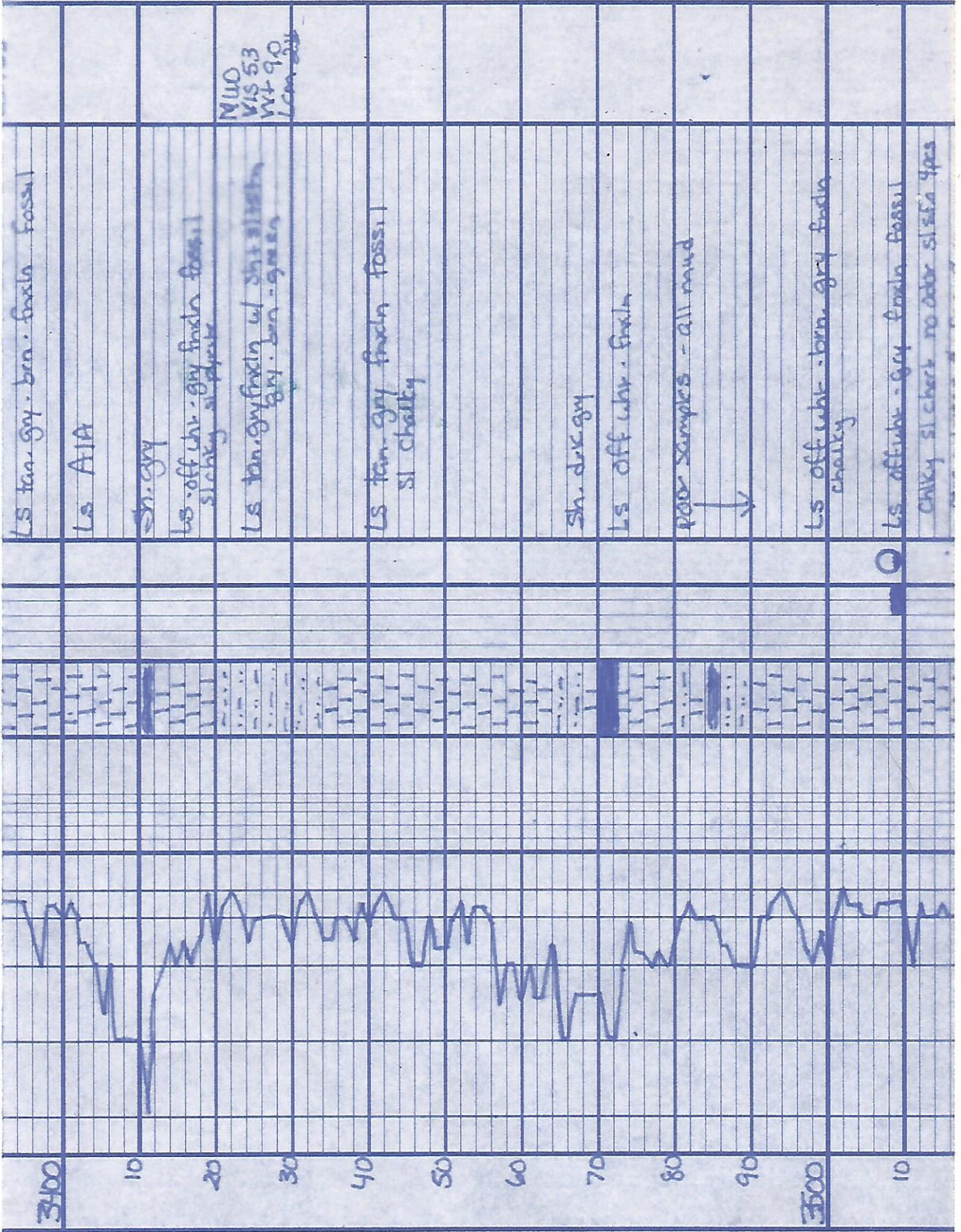
BIT RECORD

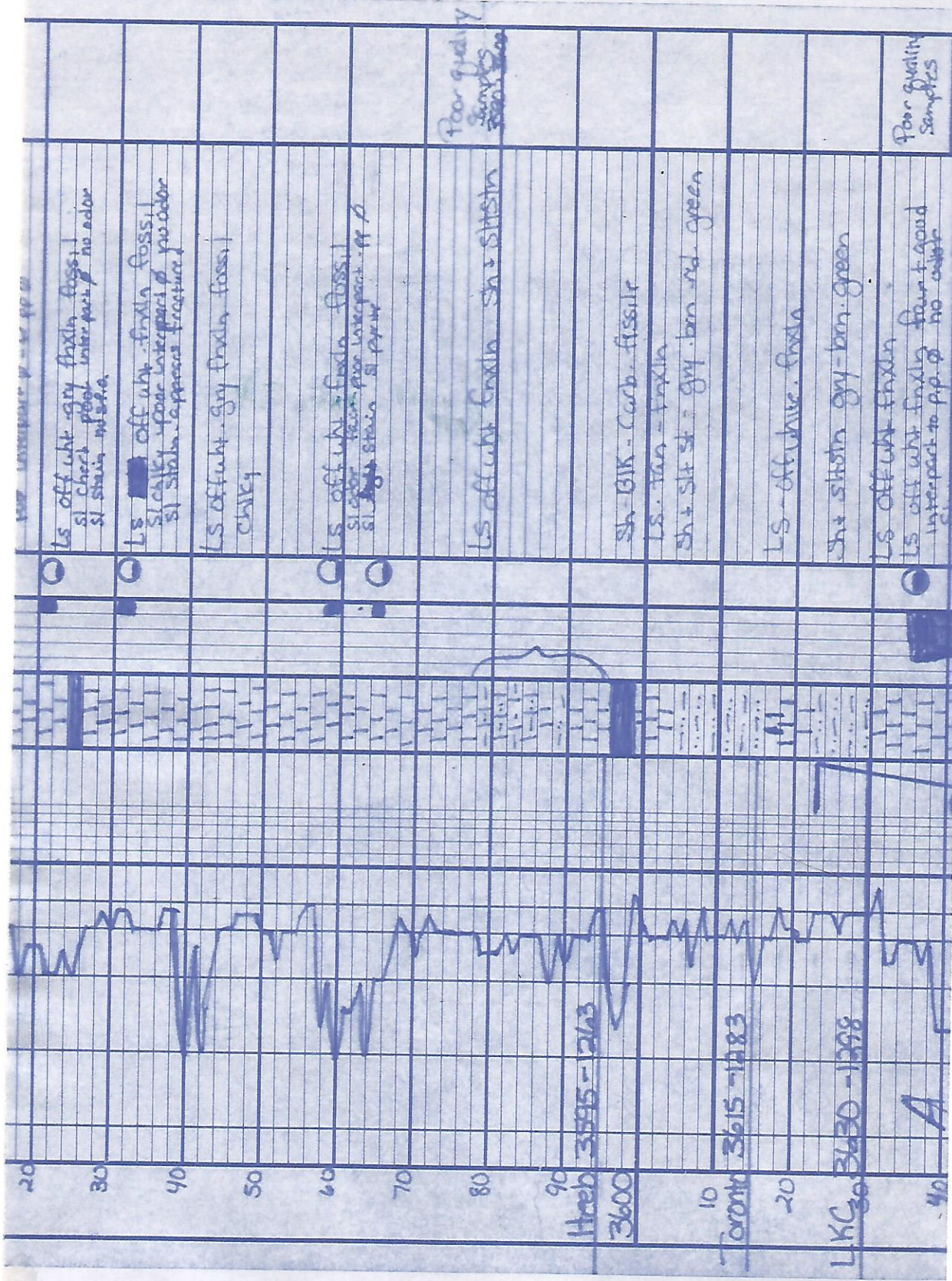
NO	SIZE	MAKE	TYPE	DEPTH	FEET	HOURS
1	12 1/4"		Miltooth	220'	220'	3 3/4
2	7 7/8"	Reed	S-52	4110'	3890'	10 1/2
3						
4						

Shields
 a Trego Co.
 rugged
 location had
 locations.
 1.2 +4
 Structurally









Ls off wht. gray fexln. fossil.
Sl. chert. poor interpart. no odor.
Sl. shaly. m.s.d.a.

Ls off wht. fexln. fossil.
Sl. chert. poor interpart. no odor.
Sl. shaly. a porous fracture.

Ls off wht. gray fexln. fossil.
Chky.

Ls off wht. fexln. fossil.
Sl. chert. poor interpart. no odor.
Sl. shaly. m.s.d.a.

Ls off wht. fexln. sh + siltstn.

Sh. BIK - Carb. fissile.
Ls. Tan - fexln.
sh + silt st. - gray. brn. red. green.

Ls. off whic. fexln.
sh + siltstn. gray-brn. green.

Ls off wht. fexln.
Ls off wht. fexln. poor. good
interpart. to p.p. no odor.

Hreb 3595-1263
3600

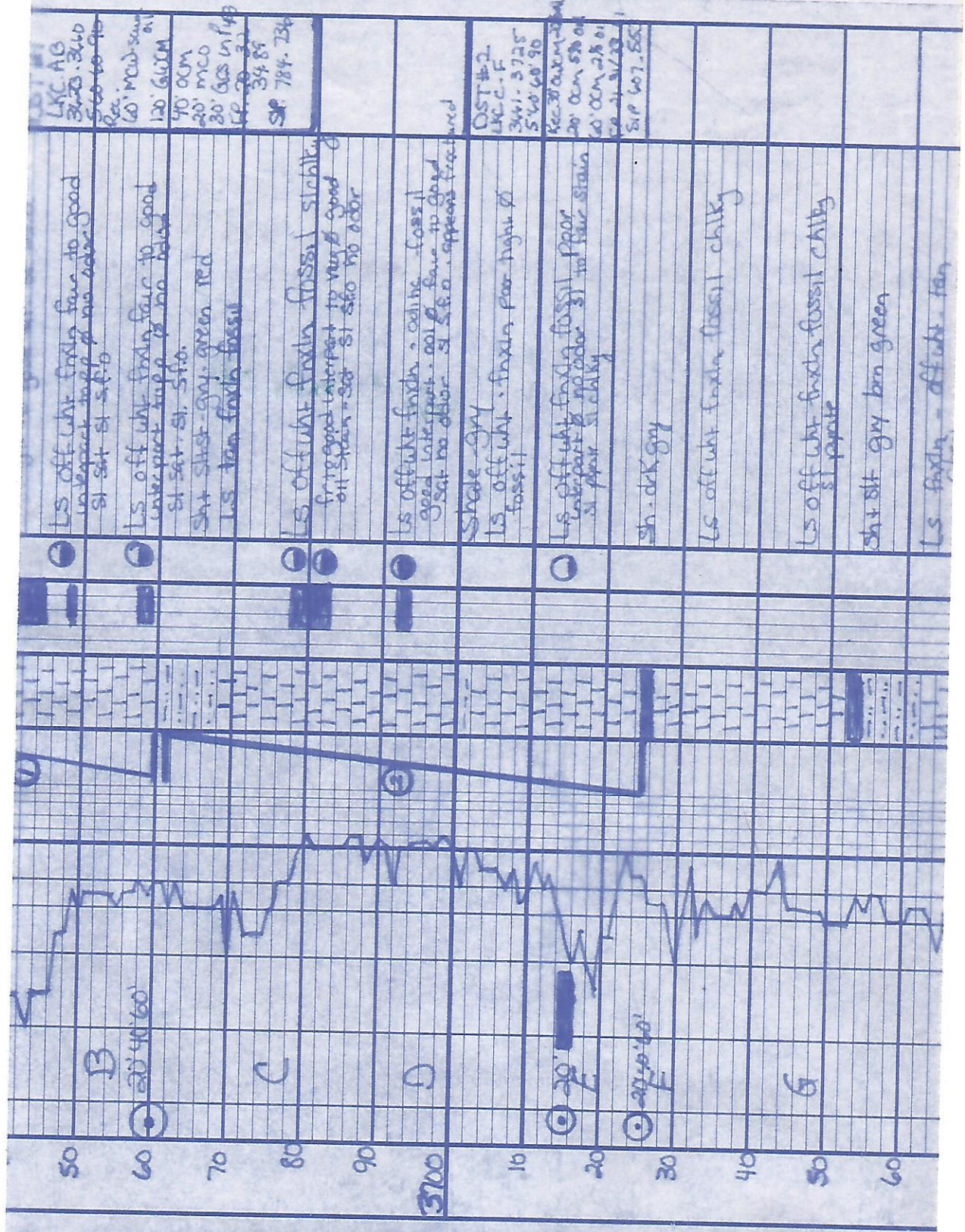
Toronto 3615-1283

LKC 3630-1298

A

Poor quality
samples

Poor quality
samples



LKC AB
3470-3480
540-60-90
Rec. 120' MWD sum
120' 600M
70' 00M
20' MCO
30' 600 M/F
SP 784. 236

OST #2
LKC-F
3471-3725
540' 60' 90
Rec. 30' MWD sum
20' 00M 58' 00'
60' 00M 28' 00'
SP 607-565

LS off wht. fine to good
interpart. imp. of no odor
SI sat. SI. S.F. 6

LS off wht. fine to good
interpart. imp. of no odor
SI sat. SI. S.F. 6

Sh + sh. dk. gray. green red
LS tan. fine fossil

LS off wht. fine fossil stability
frag. good. interpart. to very good
off stain. Sat. SI. S.F. 6 no odor

LS off wht. fine. calc. fossil
good interpart. 20' fine to good
Sat. no odor. SI. S.F. 6. appears fractured

Shale - gray
LS off wht. - fine. floor. high
fossil

LS off wht. fine to good floor
interpart. of no odor. SI. to fine stain
SI. floor. S.F. 6

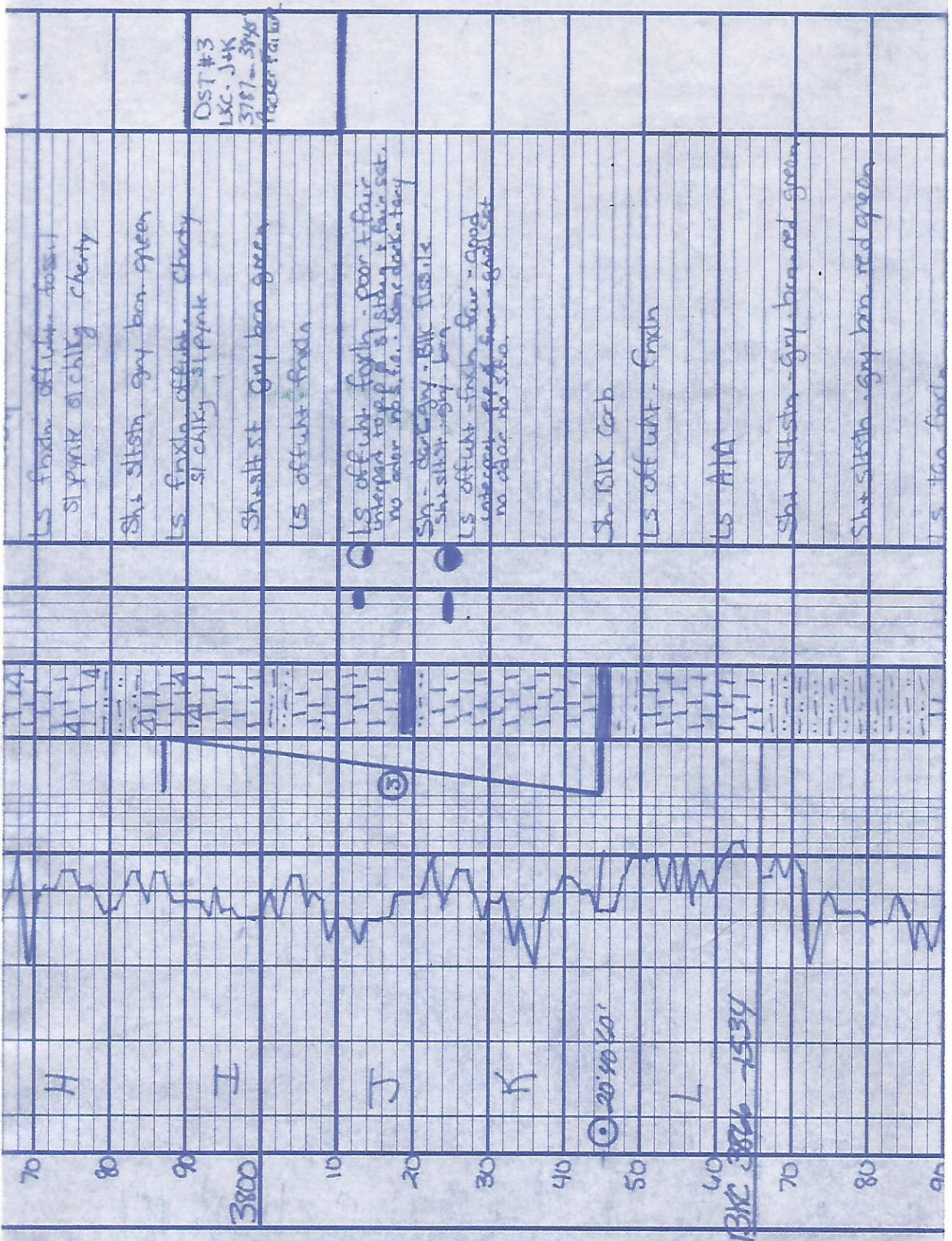
Sh. dk. gray

LS off wht. fine fossil chalky

LS off wht. fine fossil chalky
SI. fine

Sh + dk. gray. brn green

LS fine - off wht. tan



LS fada. offlight. fada.
 SL pink chalky Cherty

Sh. siltstn. gray brn green

LS fada. offlight. Cherty
 SL chalky SL pink

Sh. siltstn. gray brn green

LS offlight. fada

LS offlight. fada. poor + fair
 unsp. top of siltstn. + face set.
 no order to s. s. Some dark. tacy

Sh. - dark gray. BIK fada
 Sh. siltstn. gray brn

LS offlight. fada. fair - good
 unsp. top of siltstn. + face set.
 no order to s. s.

Sh. BIK carb

LS offlight. fada

LS AIA

Sh. siltstn. gray brn red green

Sh. siltstn. gray brn red green

LS fada

OST #3
 LXC. J+K
 3787-3795

20

BIK 3826-1534

3800

70

80

90

70

80

90

100

110

120

130

140

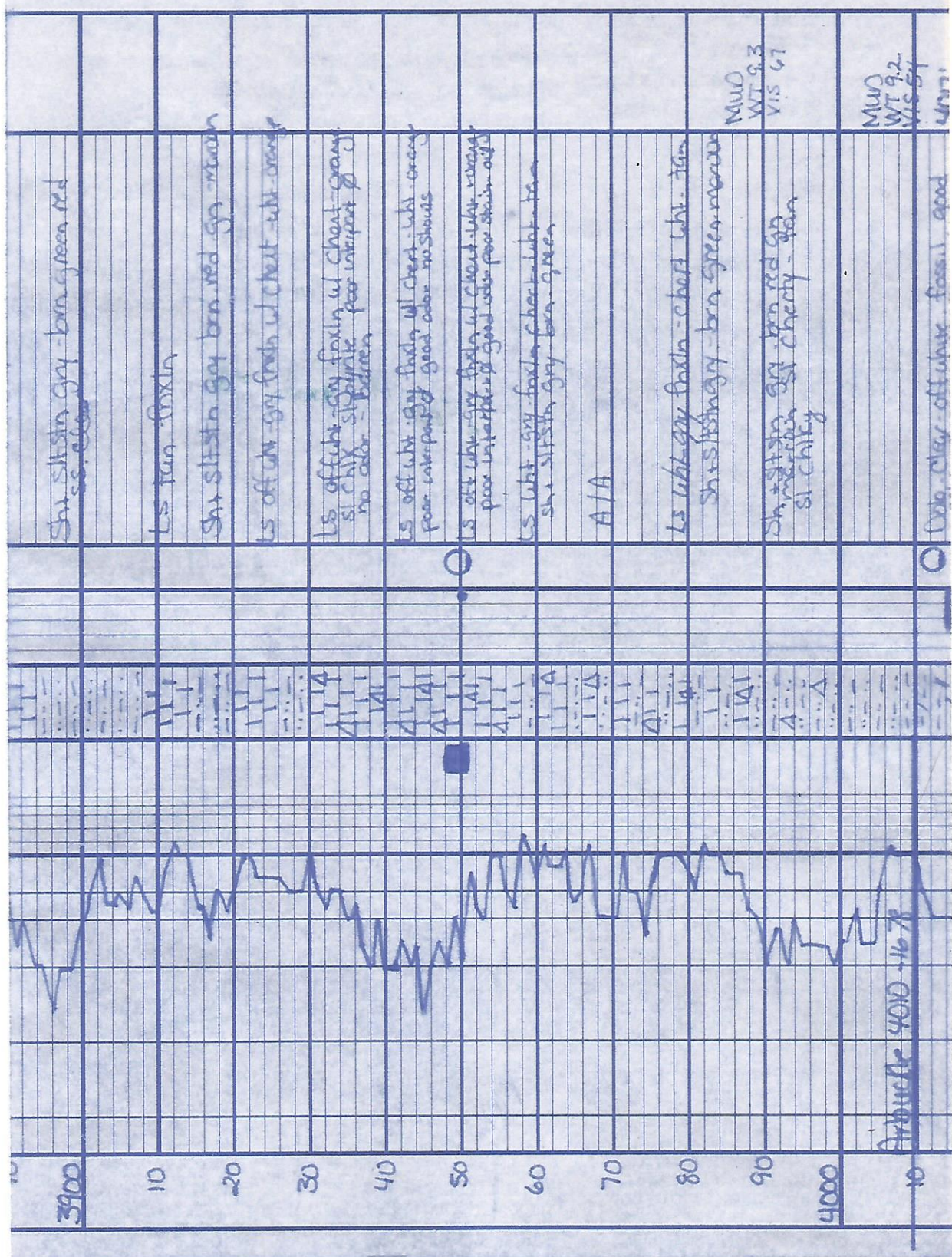
H

I

J

K

L



Sh. siltstn. gray - brown green red
 ss. clay

Ls tan - pinkish

Sh. siltstn. gray brown red gray - tan

Ls off wh. gray fresh w/ chest - wht orange

Ls off wh. gray fresh w/ chest - wht orange
 sl. clay - silty - poor interpart. &
 no odor - barren

Ls off wh. gray fresh w/ chest - wht orange
 poor interpart. good odor - no shows

Ls off wh. gray fresh w/ chest - wht orange
 poor interpart. - good odor - poor stain - off

Ls wht - gray - fresh - chest - wht - tan
 sh. siltstn. gray - brown green

A/A

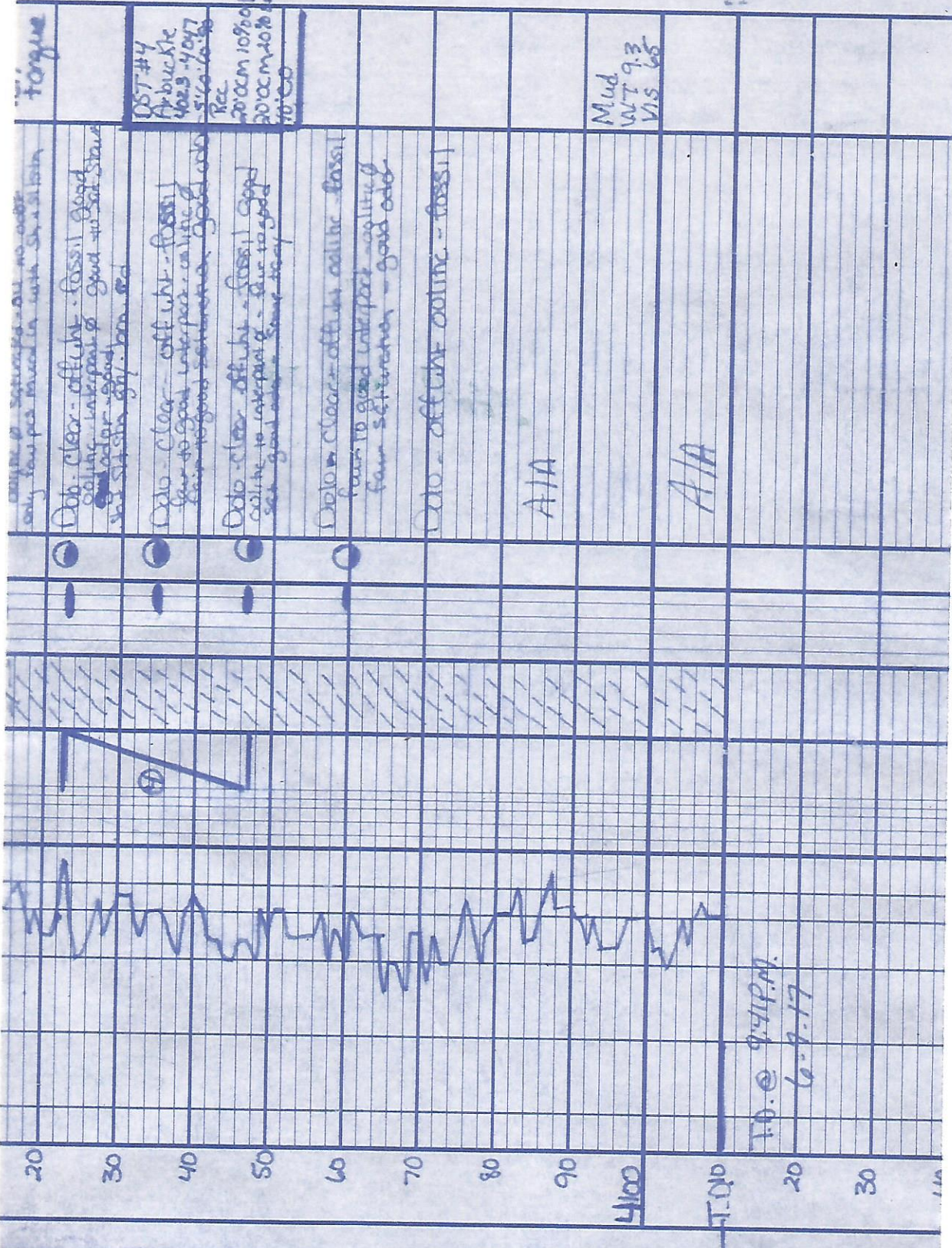
Ls wht - gray - fresh - chest - wht - tan
 sh. siltstn. gray - brown green - massive

MWD
 WT 9.3
 VIS 67

Sh. siltstn. gray brown red gray
 sl. clay - silty - cherry - tan

MWD
 WT 9.2
 VIS 57

○ Calc. clay - off-white - fossil - good



only few pe. moved in with S. 1/2 1/2 in

Off clear - off light - fossil good
colitic. Interpart of good to good. Stave
and st. sh. gy. brown red

Off clear - off light - fossil
fair to good. Interpart. colitic
fair to good. Interpart. good to good

Off clear - off light - fossil good
colitic to interpart of - fair to good
sh. good to sh. - some trace

Off clear - off light colitic fossil
fair to good. Interpart - colitic
fair to good. Interpart - good to good

Off - off light colitic - fossil

A/A

A/A

torque

DST #4
Ar buckle
4023-4077
5/10/68
Rec
200cm 10% oil
200cm 40% oil
10' CO

Mud
WT 9.3
Vis 65

10. @ 9:41 P.M.
6-9-17

GLOBAL OIL FIELD SERVICES, LLC

2974

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT:

Russell, KS

DATE <u>6-8-17</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
<u>TODD HIXON</u>							<u>10 AM</u>
LEASE <u>Rena</u>	WELL #.	LOCATION			COUNTY	STATE	
	<u>1</u>				<u>FILLIS</u>	<u>KS</u>	
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR SHILOH DRILLING
 TYPE OF JOB DRY HOLE PLUG
 HOLE SIZE 7 7/8 T.D. _____
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 1 1/2 XH DEPTH 3090'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS _____
 DISPLACEMENT _____

OWNER _____
 CEMENT AMOUNT ORDERED 305 SF 60/100 P02 4% CEM 1/4 FCG

EQUIPMENT
 PUMP TRUCK CEMENTER BRAD
 # 117 HELPER COOY
 BULK TRUCK DRIVER TOM
 # 481
 BULK TRUCK DRIVER _____
 # _____

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____

REMARKS:

1st - 3090' - 50 SF
2nd - 1790' - 50 SF
3rd - 990' - 100 SF
4th - 770' - 50 SF
5th - 410' - 10 SF
PUT _____ 30 SF
MOUSE _____ 15 SF

TOTAL _____

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 MANIFOLD _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

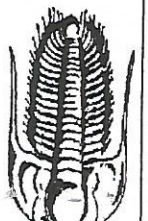
CHARGE TO: Stueb
 STREET _____
 CITY _____ STATE _____ ZIP _____

Global Oil Field Services, LLC
 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



RILOBITE
TESTING, INC

Staab Oil Company

1607 Hopewell Rd
Hays KS 67601+9443

ATTN: Janel Staab

9-12W-21S Trego, KS

Todd Hixon Road #1

Job Ticket: 63219 DST#: 1

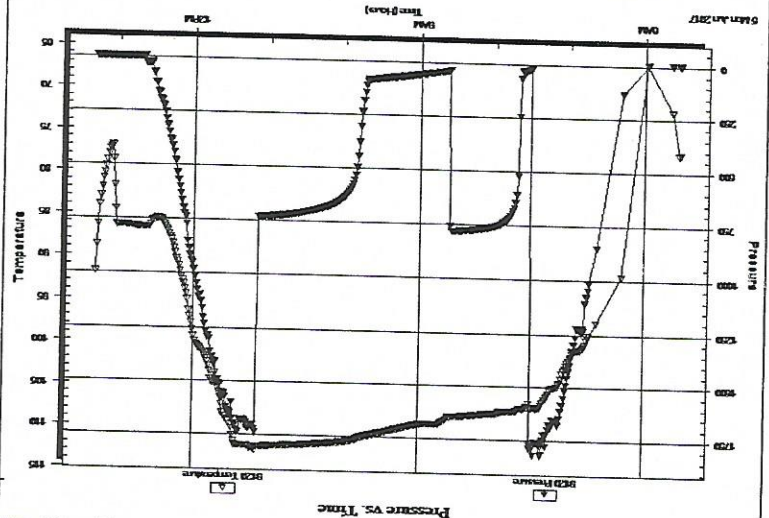
Test Start: 2017.06.05 @ 05:31:00

GENERAL INFORMATION:

Formation: LKC "A-B"
Deviated: No Whipstock:
Time Tool Opened: 07:31:45
Time Test Ended: 13:19:00
Interval: 3623.00 ft (KB) To 3660.00 ft (KB) (TVD)
Total Depth: 3660.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition:
Serial #: 9120 Inside
Press@RunDepth: psig @ 3626.00 ft (KB)
Start Date: 2017.06.05
Start Time: 05:31:15
End Date: 2017.06.05
End Time: 13:19:00
Capacity: 8000.00 psig
Last Calib.:
Time On Blm:
Time Off Blm:

TEST COMMENT:
5-F-Weak Blow : Built from surface to 1 3/4"
60-ISF-No Blow Back
60-FF-Fair Blow : Built from surface to 3 3/4"
90-FSH-No Blow Back

PRESSURE SUMMARY

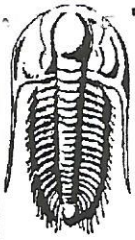


Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW w /scum oil 30%M 70%W	0.44
120.00	GWCM w /scum oil 10%G 40%W 50%M	0.88
40.00	OCM 8%O 92%M	0.29
20.00	MCO 5%M 95%O	0.15
0.00	30' GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Oil Company
1607 Hopewell Rd
Hays KS 67601+9443
ATTN: Janel Staab

9-12W-21S Trego, KS
Todd Hixon Road #1
Job Ticket: 63219 DST#: 1
Test Start: 2017.06.05 @ 05:31:00

Tool Information

Drill Pipe:	Length: 3146.00 ft	Diameter: 3.80 inches	Volume: 44.13 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 466.00 ft	Diameter: 2.75 inches	Volume: 3.42 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 47.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3623.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3596.00	
Shut In Tool	5.00			3601.00	
Hydraulic tool	5.00			3606.00	
Jars	5.00			3611.00	
Safety Joint	3.00			3614.00	
Packer	5.00			3619.00	28.00 Bottom Of Top Packer
Packer	4.00			3623.00	
Stubb	1.00			3624.00	
Perforations	2.00			3626.00	
Recorder	0.00	9120	Inside	3626.00	
Recorder	0.00	8934	Outside	3626.00	
Perforations	29.00			3655.00	
Bullnose	5.00			3660.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Oil Company
1607 Hopewell Rd
Hays KS 67601+9443
ATTN: Janel Staab

9-12W-21S Trego, KS
Todd Hixon Road #1
Job Ticket: 63219 DST#: 1
Test Start: 2017.06.05 @ 05:31:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 45 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 63000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4500.00 ppm		
Filter Cake: inches		

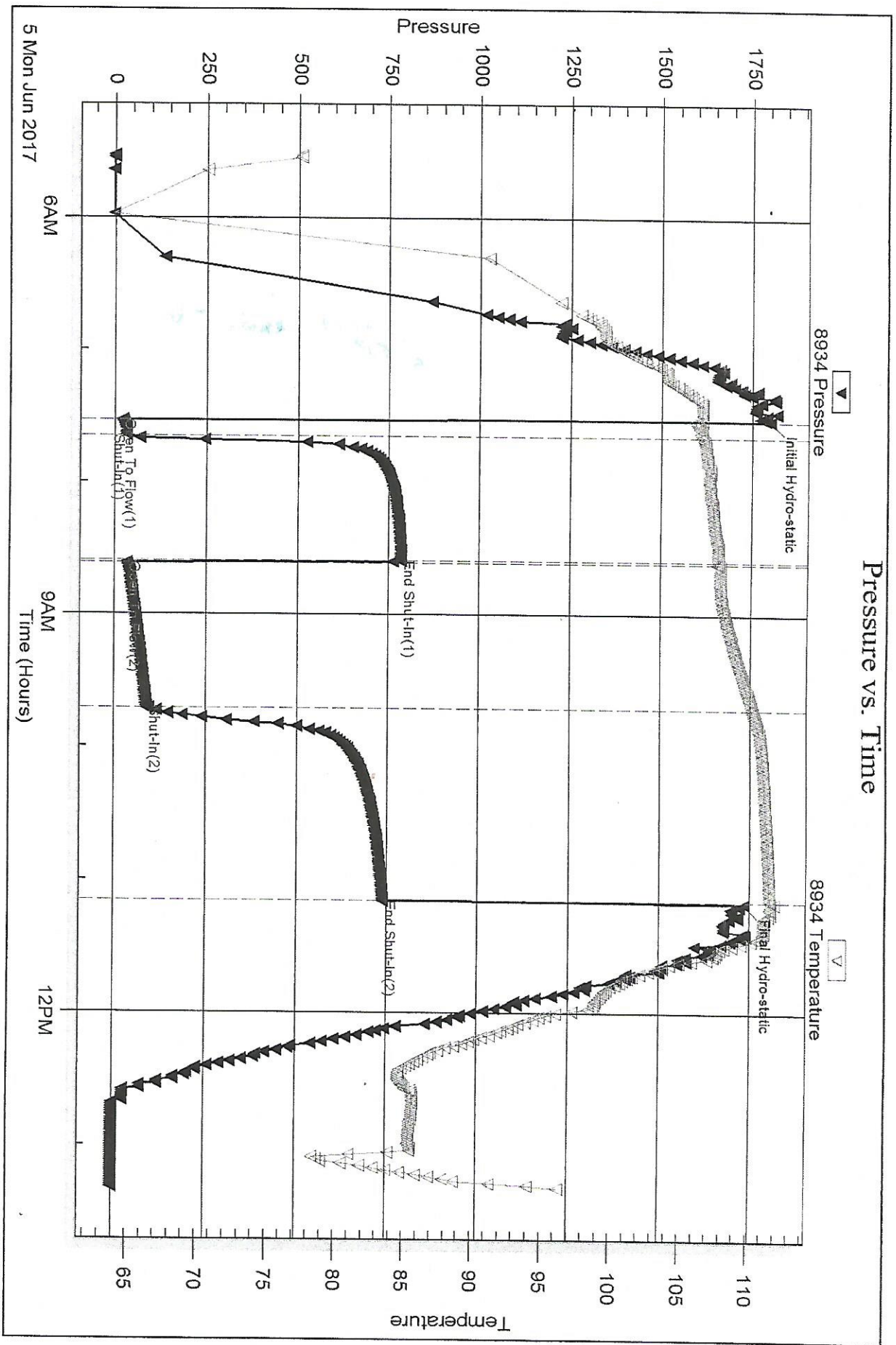
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCW w /scum oil 30%M 70%W	0.441
120.00	GWCM w /scum oil 10%G 40%W 50%M	0.882
40.00	OCM 8%O 92%M	0.294
20.00	MCO 5%M 95%O	0.147
0.00	30' GIP	0.000

Total Length: 240.00 ft Total Volume: 1.764 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2#LCM
 RW=.085@92 degrees

Pressure vs. Time



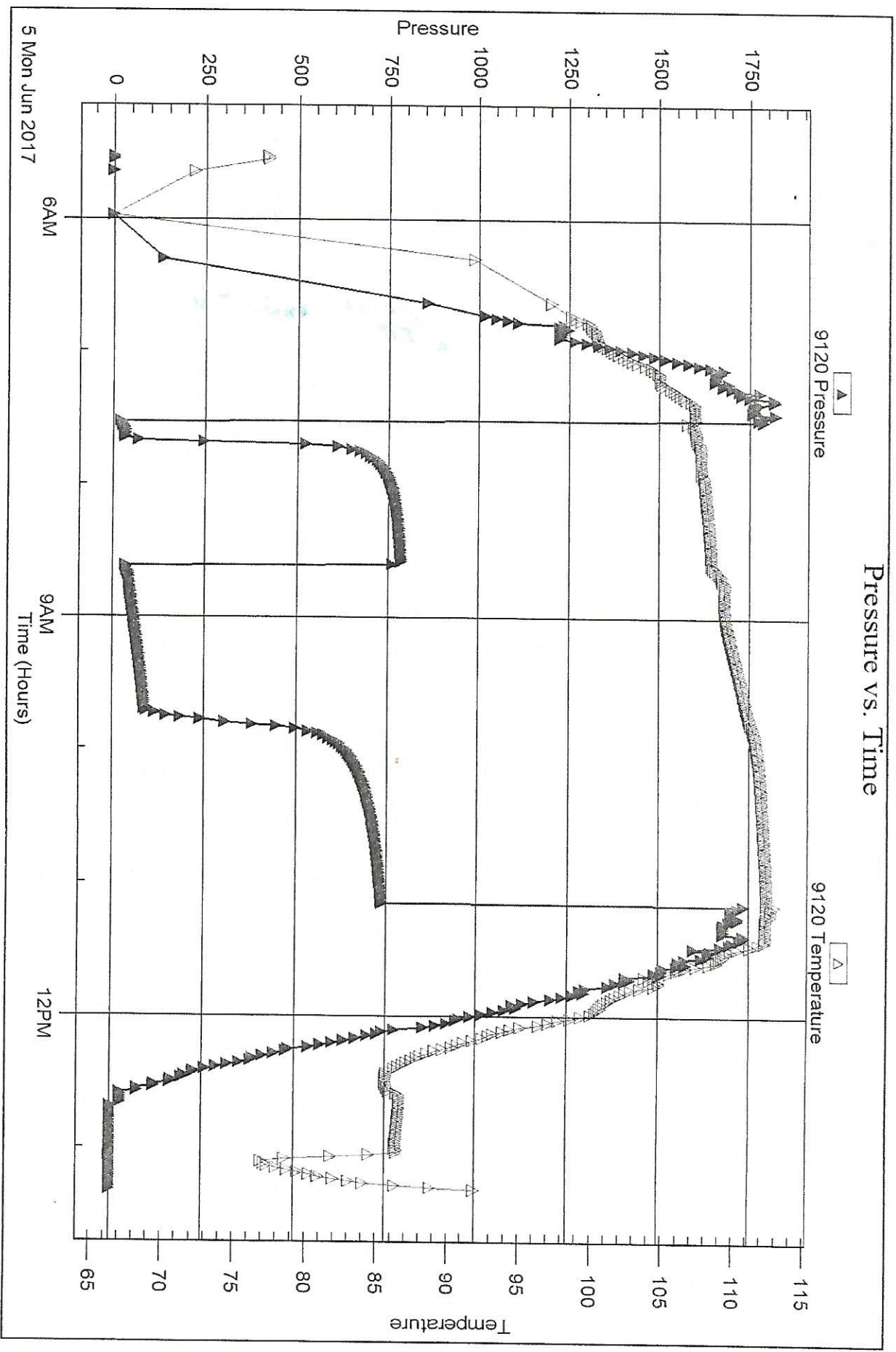
Serial #: 9120

Inside

Staab Oil Company

Todd Hixon Road #1

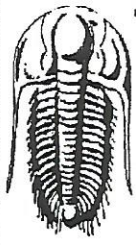
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63219

Printed: 2017.06.08 @ 17:06:04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Oil Company

9-12W-21S Trego, KS

1607 Hopewell Rd
Hays KS 67601+9443

Todd Hixon Road #1

Job Ticket: 63220

DST#: 2

ATTN: Janel Staab

Test Start: 2017.06.06 @ 00:36:00

Tool Information

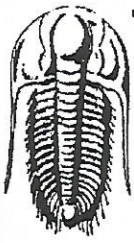
Drill Pipe:	Length: 3171.00 ft	Diameter: 3.80 inches	Volume: 44.48 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 466.00 ft	Diameter: 2.75 inches	Volume: 3.42 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 71000.00 lb
			<u>Total Volume: 47.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3661.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	92.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3634.00	
Shut In Tool	5.00			3639.00	
Hydraulic tool	5.00			3644.00	
Jars	5.00			3649.00	
Safety Joint	3.00			3652.00	
Packer	5.00			3657.00	28.00 Bottom Of Top Packer
Packer	4.00			3661.00	
Stubb	1.00			3662.00	
Perforations	2.00			3664.00	
Change Over Sub	1.00			3665.00	
Recorder	0.00	9120	Inside	3665.00	
Recorder	0.00	8934	Inside	3665.00	
Drill Pipe	32.00			3697.00	
Change Over Sub	1.00			3698.00	
Perforations	22.00			3720.00	
Bullnose	5.00			3725.00	64.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Oil Company
1607 Hopewell Rd
Hays KS 67601+9443
ATTN: Janel Staab

9-12W-21S Trego, KS
Todd Hixon Road #1
Job Ticket: 63220 DST#: 2
Test Start: 2017.06.06 @ 00:36:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	13000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OWCM 20%O 20%W 60%M	0.220
20.00	OCM 5%O 95%M	0.147
60.00	OCM 2%O 98%M	0.441

Total Length: 110.00 ft Total Volume: 0.808 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2#LCM
 RW=.623@55degrees

Serial #: 8934

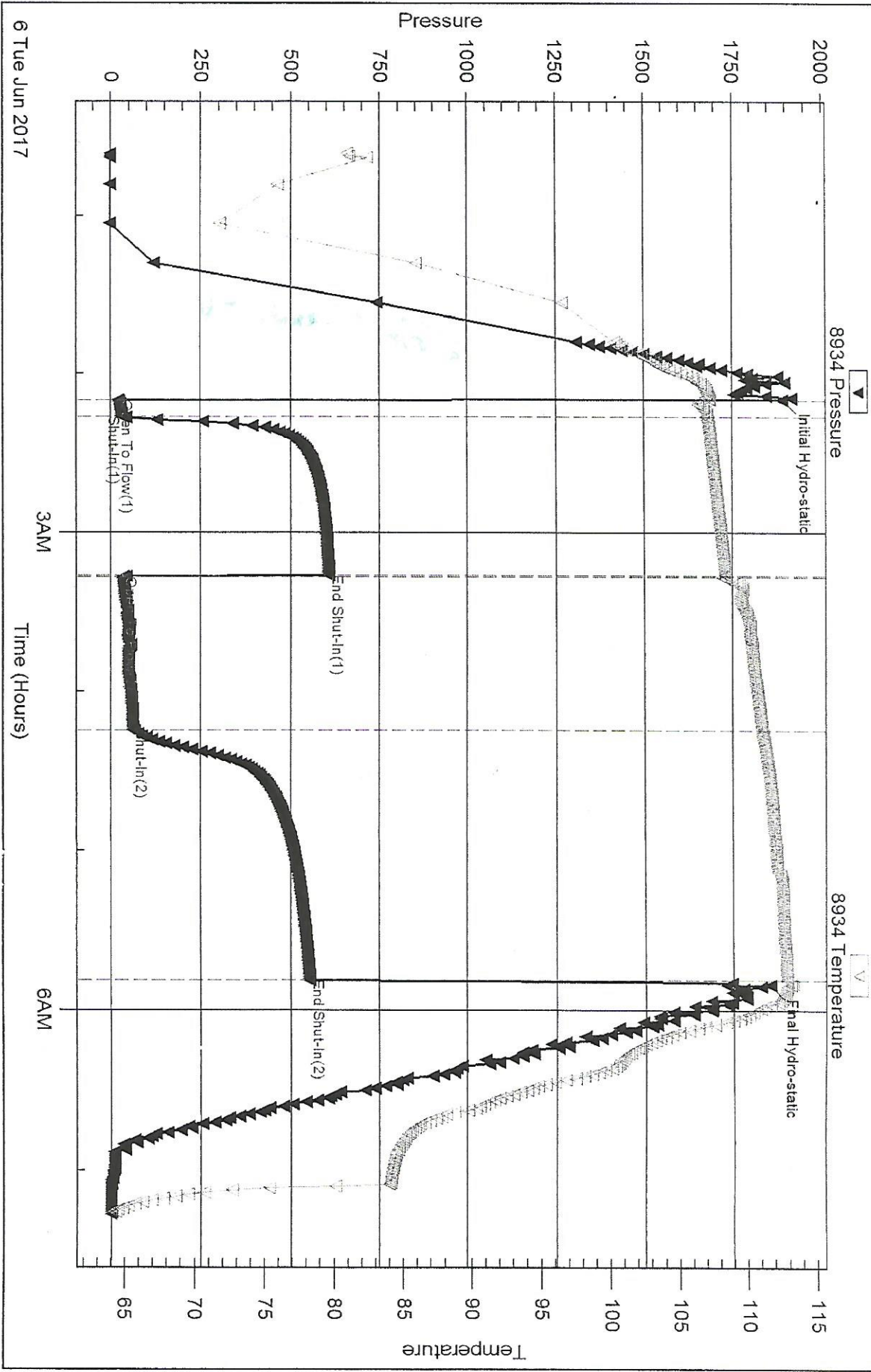
Inside

Staab Oil Company

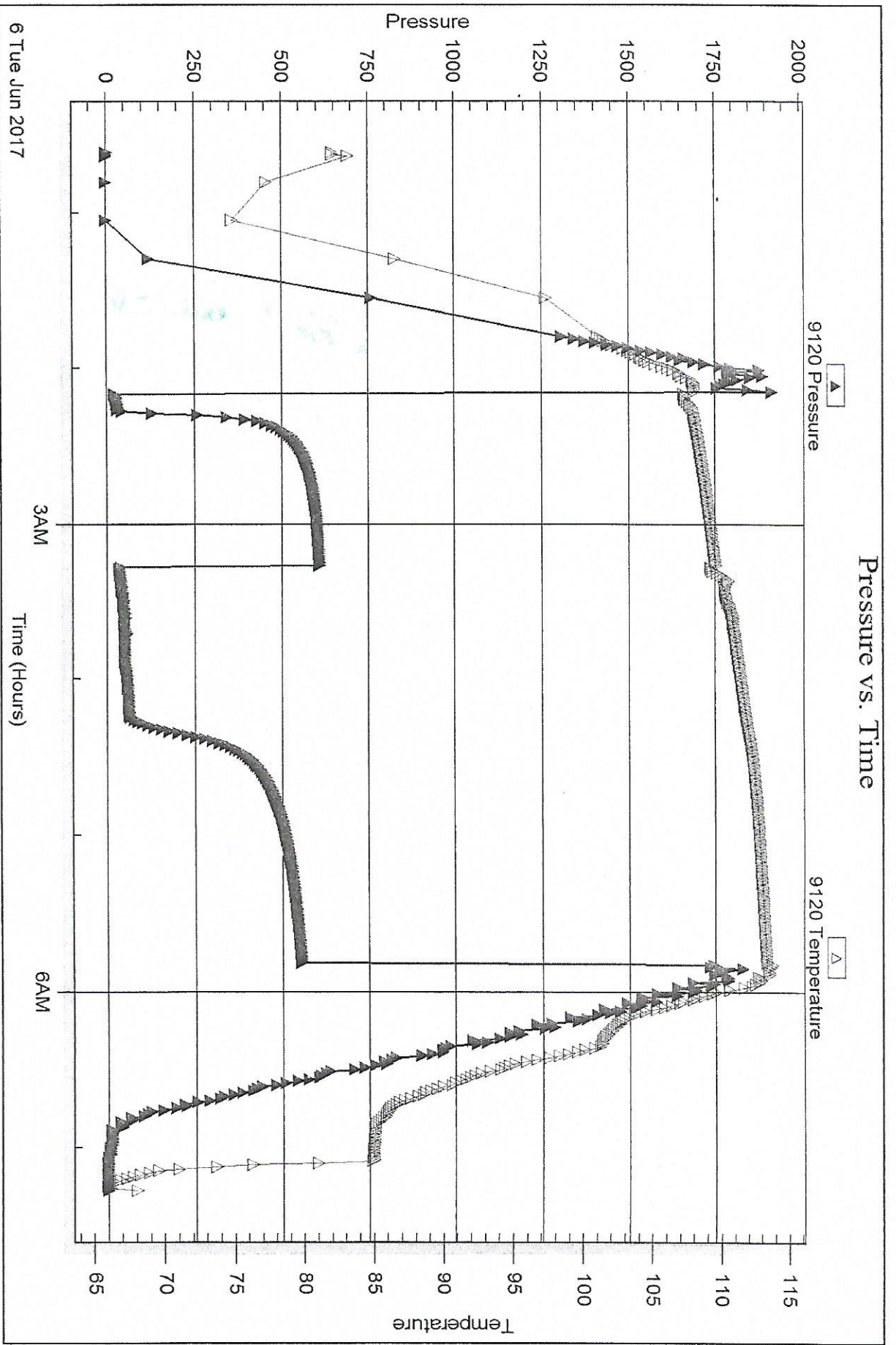
Todd Hix on Road #1

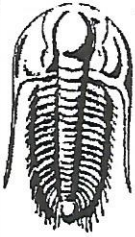
DST Test Number: 2

Pressure vs. Time



Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAG

Staab Oil Company
1607 Hopewell Rd
Hays KS 67601+9443
ATTN: Janel Staab

9-12W-21S Trego, KS

Todd Hixon Road #1

Job Ticket: 63221

DST#: 3

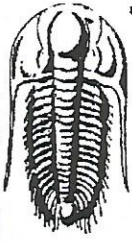
Test Start: 2017.06.06 @ 23:23:00

Tool Information

Drill Pipe:	Length: 3310.00 ft	Diameter: 3.80 inches	Volume: 46.43 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 466.00 ft	Diameter: 2.75 inches	Volume: 3.42 bbl	Weight set on Packer:	lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 49.85 bbl</u>	Tool Chased:	ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3787.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.00 ft				
Tool Length:	78.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3768.00	
Shut In Tool	5.00			3773.00	
Hydraulic tool	5.00			3778.00	
Packer	5.00			3783.00	20.00 Bottom Of Top Pack
Packer	4.00			3787.00	
Stubb	1.00			3788.00	
Perforations	2.00			3790.00	
Change Over Sub	1.00			3791.00	
Recorder	0.00	9120	Inside	3791.00	
Recorder	0.00	8934	Inside	3791.00	
Drill Pipe	32.00			3823.00	
Change Over Sub	1.00			3824.00	
Perforations	16.00			3840.00	
Bullnose	5.00			3845.00	58.00 Bottom Packers & Ancho
Total Tool Length:	78.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Oil Company

9-12W-21S Trego, KS

1607 Hopewell Rd
Hays KS 67601+9443

Todd Hixon Road #1

Job Ticket: 63221

DST#: 3

ATTN: Janel Staab

Test Start: 2017.06.06 @ 23:23:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
345.00	Mud 100%M	2.535

Total Length: 345.00 ft Total Volume: 2.535 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

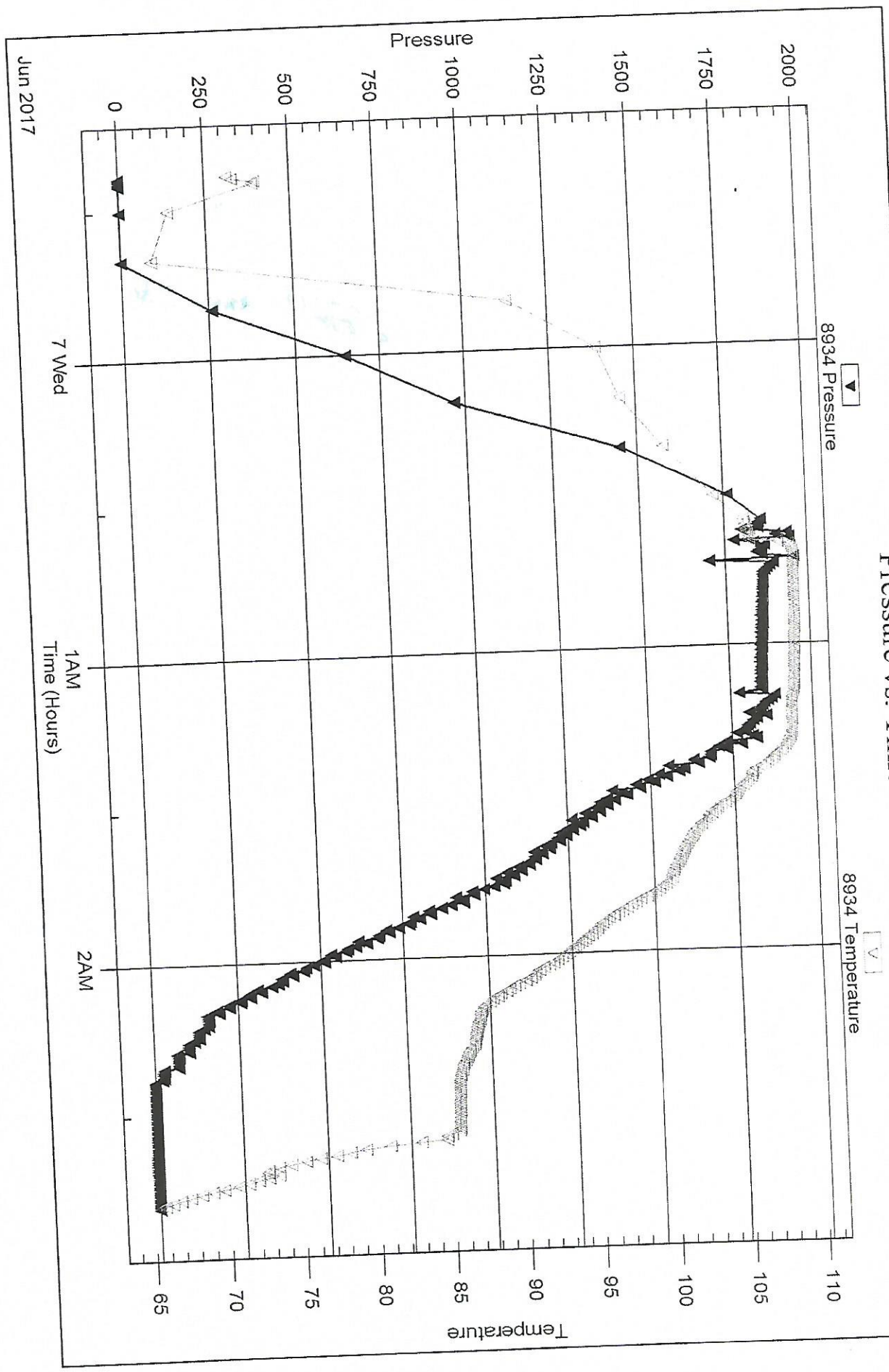
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Pressure vs. Time



Serial #: 9120

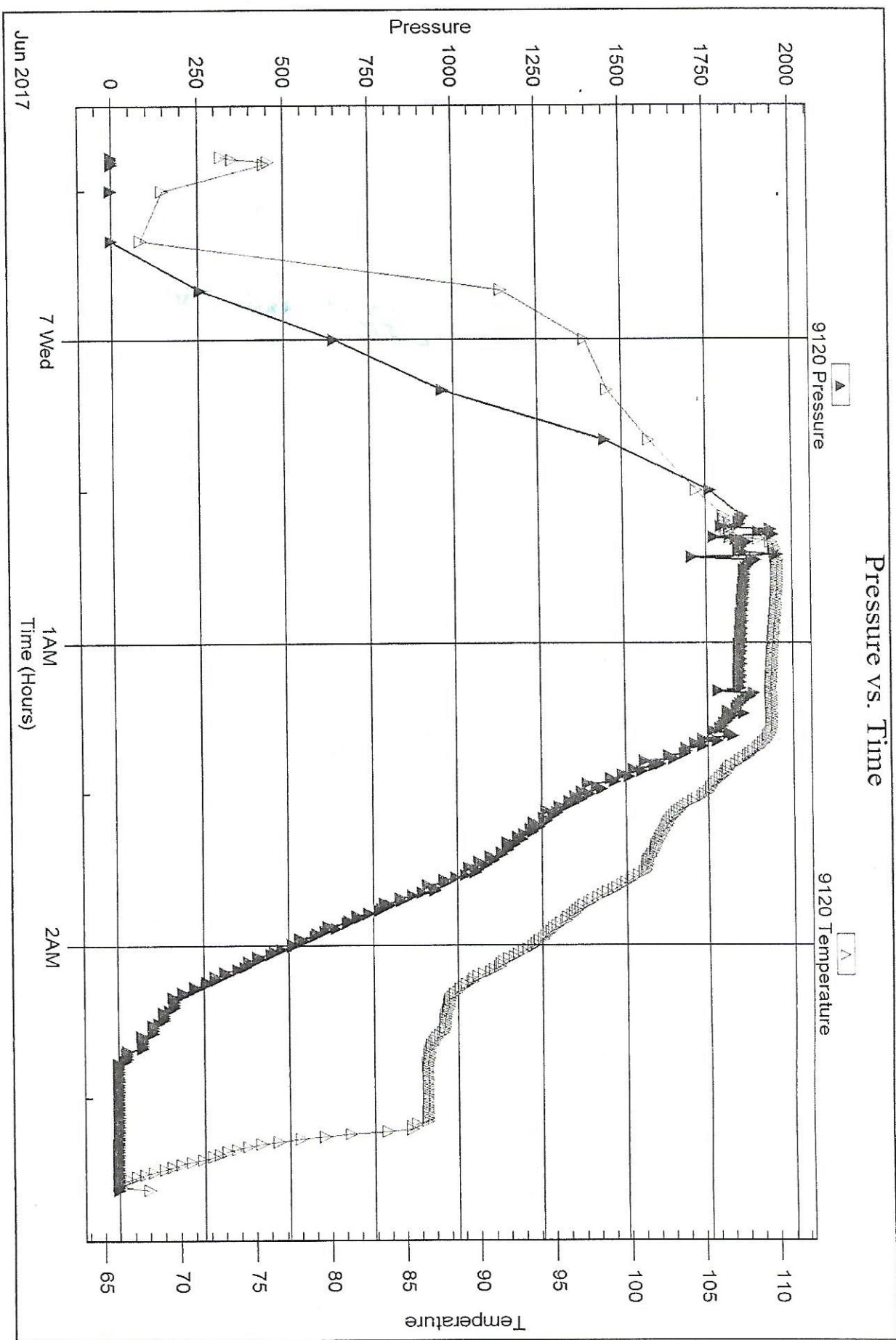
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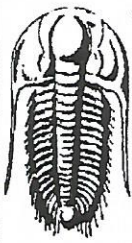
Staab Oil Company

Todd Hixon Road #1

DST Test Number: 3

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Staab Oil Company
 1607 Hopewell Rd
 Hays KS 67601+9443
 ATTN: Janel Staab

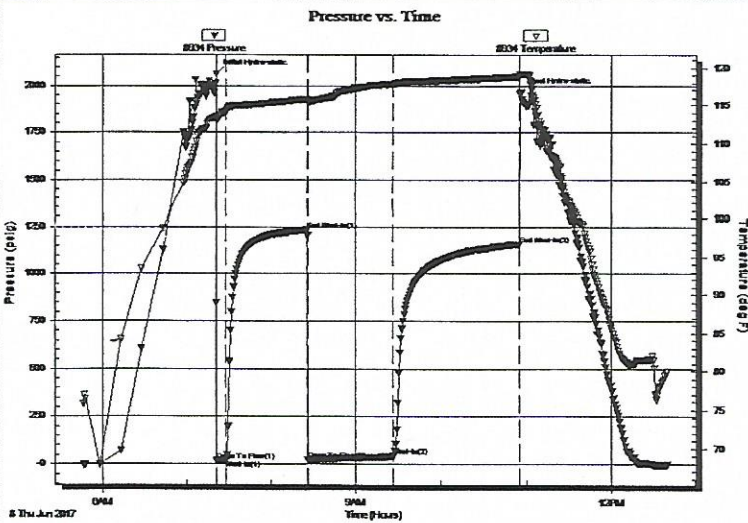
9-12W-21S Trego, KS
 Todd Hixon Road #1
 Job Ticket: 63222 DST#: 4
 Test Start: 2017.06.08 @ 05:46:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:21:30
 Time Test Ended: 12:40:30
 Interval: **4023.00 ft (KB) To 4047.00 ft (KB) (TVD)**
 Total Depth: 4110.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Spencer J. Staab
 Unit No: 71
 Reference Elevations: 2332.00 ft (KB)
 2327.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8934 Outside
 Press@RunDepth: 42.38 psig @ 4024.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.08 End Date: 2017.06.08 Last Calib.: 2017.06.08
 Start Time: 05:46:15 End Time: 12:40:30 Time On Btm: 2017.06.08 @ 07:21:00
 Time Off Btm: 2017.06.08 @ 10:56:00

TEST COMMENT: 5-IF-Weak Blow ; Built from surface to 1 7/8"
 60-ISI-No Blow Back
 60-FF-Weak Blow ; Built from surface to 4 1/4"
 90-FSI-No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2062.84	113.63	Initial Hydro-static
1	18.31	112.99	Open To Flow (1)
7	21.25	114.17	Shut-In(1)
65	1234.48	115.88	End Shut-In(1)
65	23.38	115.31	Open To Flow (2)
125	42.38	117.87	Shut-In(2)
214	1158.98	118.85	End Shut-In(2)
215	1964.01	119.20	Final Hydro-static

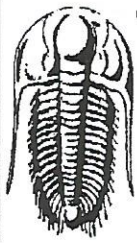
Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 10%O 90%M	0.15
20.00	OCM 20%O 80%M	0.15
40.00	Clean Oil	0.29

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Staab Oil Company
1607 Hopewell Rd
Hays KS 67601+9443
ATTN: Janel Staab

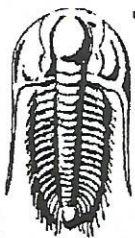
9-12W-21S Trego, KS
Todd Hixon Road #1
Job Ticket: 63222 DST#: 4
Test Start: 2017.06.08 @ 05:46:00

Tool Information

Drill Pipe:	Length: 3626.00 ft	Diameter: 3.80 inches	Volume: 50.86 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 403.00 ft	Diameter: 2.75 inches	Volume: 2.96 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 53.82 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4023.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	4047.00 ft			
Interval between Packers:	24.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4004.00	
Shut In Tool	5.00			4009.00	
Hydraulic tool	5.00			4014.00	
Packer	5.00			4019.00	20.00 Bottom Of Top Packer
Packer	4.00			4023.00	
Stubb	1.00			4024.00	
Recorder	0.00	9120	Inside	4024.00	
Recorder	0.00	8934	Outside	4024.00	
Perforations	19.00			4043.00	
Blank Off Sub	1.00			4044.00	
top of s.packer	3.00			4047.00	24.00 Tool Interval
Packer	0.00			4047.00	
Stubb	1.00			4048.00	
Change Over Sub	1.00			4049.00	
Recorder	0.00	8368	Below	4049.00	
Drill Pipe	63.00			4112.00	65.00 Bottom Packers & Anchor
Total Tool Length:	109.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Staab Oil Company
1607 Hopewell Rd
Hays KS 67601+9443
ATTN: Janel Staab

9-12W-21S Trego, KS
Todd Hixon Road #1
Job Ticket: 63222 DST#: 4
Test Start: 2017.06.08 @ 05:46:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 32 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.59 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4500.00 ppm		
Filter Cake: inches		

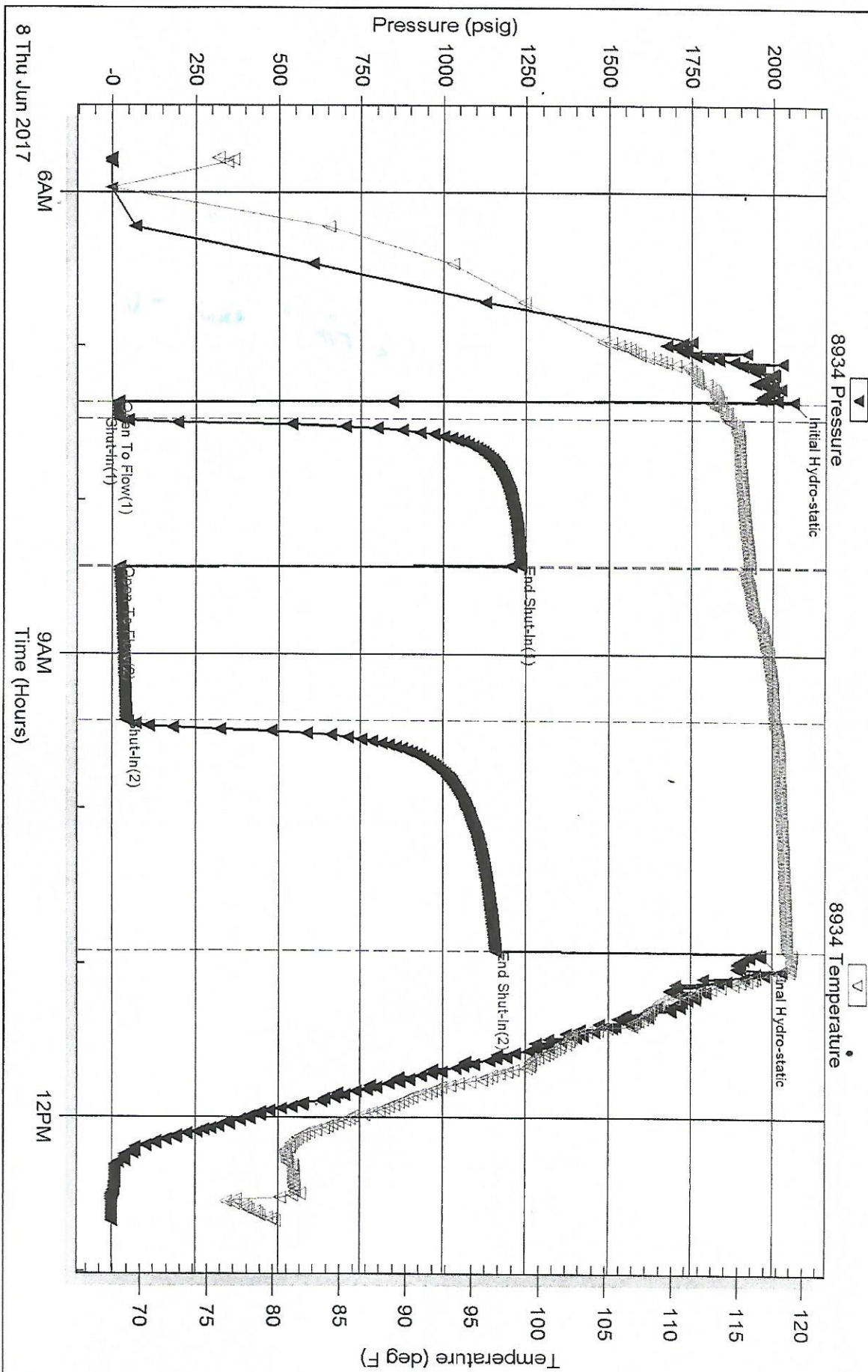
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM 10%O 90%M	0.147
20.00	OCM 20%O 80%M	0.147
40.00	Clean Oil	0.294

Total Length: 80.00 ft Total Volume: 0.588 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2# LCM

Pressure vs. Time



Serial #: 9120

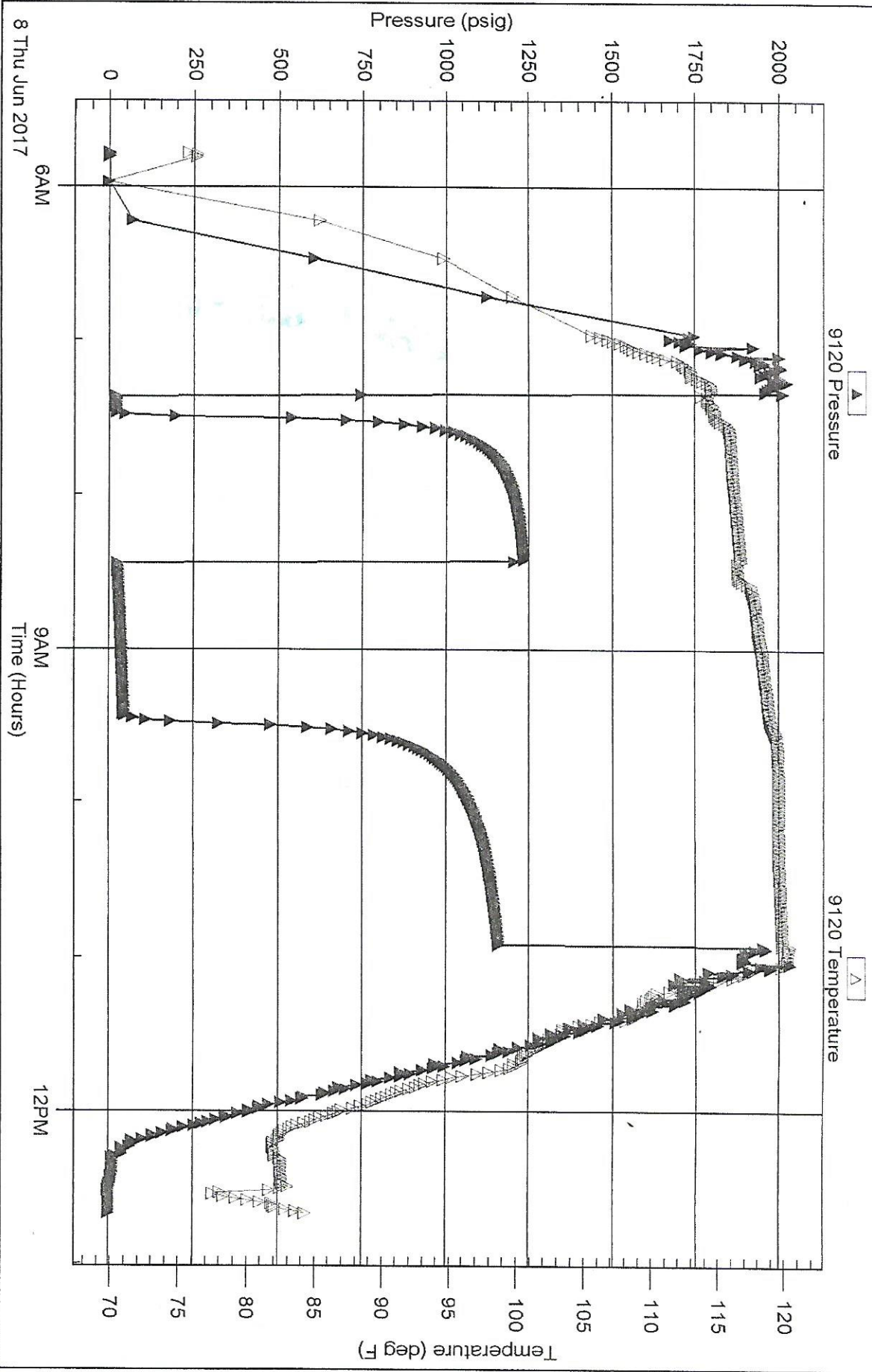
Inside

Staab Oil Company

Todd Hixon Road #1

DST Test Number: 4

Pressure vs. Time



Pressure vs. Time

