KOLAR Document ID: 1676019

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33406
Name: Thomas Garner, Inc.
Address 1: 20 NE 20TH AVE
Address 2:
City: ST JOHN State: KS Zip: 67576 + 8318
Contact Person: Tom Garner
Phone: (620) 793-0766
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Keith Reavis
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

8/12/2022 Spud Date or Recompletion Date
8/21/2022 Date Reached TD
9/08/2022 Completion Date or Recompletion Date

API No.: 15-185-24116-00-00
Spot Description:
NE - NW - NW - NE Sec. 17 Twp. 24 S. R. 13 ☐ East ☑ West
86 Feet from ☑ North / ☐ South Line of Section
2010 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Stafford
Lease Name: TIGER UNIT Well #: 1
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1922 Kelly Bushing: 1935
Total Vertical Depth: 4117 Plug Back Total Depth: 4109
Amount of Surface Pipe Set and Cemented at: 396 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 9000 ppm Fluid volume: 80 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Custom Service
Lease Name: Gobin License #: 35557
Quarter SE Sec. 28 Twp. 25 S. R. 13 ☐ East ☑ West
County: Stafford Permit #: D19531

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
☐ **Confidentiality Requested**
Date: 12/07/2022
☐ **Confidential Release Date:** 12/06/2024
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 12/07/2022

Page Two

Operator Name: Thomas Garner, Inc. Lease Name: TIGER UNIT Well #: 1

Sec. 17 Twp. 24 S. R. 13 ☐ East ☑ West County: Stafford

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

Micro
Dual Comp
Dual Induction

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Heebner	3415	-1478
LKC	3578	-1643
Kinderhook	3918	-1983
Viola	3968	-2033
Simpson	4056	-2121
Arbuckle	4109	-2174

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	396	60/40 POZ	400	2%Gel 3%CC
Production	7.875	5.50	15.5	4109	H Long	190	NA

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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: 09/09/2022	Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	80		0		

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	4109	4117

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

TUBING RECORD:	Size:	Set At:	Packer At:	
	2.875	4109		

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Thomas Garner, Inc.
Well Name	TIGER UNIT 1
Doc ID	1676019

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	396	60/40 POZ	400	2%Gel 3%CC
Production	7.875	5.50	15.5	4109	H Long	190	NA

OPERATOR

Company:	Thomas Garner, Inc.		
Address:	20 NE 20th Avenue St. John, KS 67576		
Contact Geologist:			
Contact Phone Nbr:	620-793-0766		
Well Name:	Tiger Unit #1		
Location:	Sec. 17 - T24S - R13W		
API:	15-185-24116-0000		
Pool:		Field:	unnamed
State:	KANSAS	Country:	USA

Scale 1:240 Imperial

Well Name:	Tiger Unit #1		
Surface Location:	Sec. 17 - T24S - R13W		
Bottom Location:			
API:	15-185-24116-0000		
License Number:	33406		
Spud Date:	8/12/2022	Time:	8:00 AM
Region:	Stafford County		
Drilling Completed:	8/19/2022	Time:	6:00 AM
Surface Coordinates:	86' FNL & 2010' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1922.00ft		
K.B. Elevation:	1935.00ft		
Logged Interval:	3300.00ft	To:	4117.00ft
Total Depth:	4117.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:			

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-98.772395
Latitude:	37.970229
N/S Co-ord:	86' FNL
E/W Co-ord:	2010' FEL

LOGGED BY

Company:	Keith Reavis, Inc.		
Address:	3420 22nd. St. Great Bend, KS 67530		
Phone Nbr:	620-617-4091		
Logged By:	KLG #136	Name:	Keith Reavis D.J. Rebel

CONTRACTOR

Contractor:	Sterling Drilling Company		
Rig #:	5		
Rig Type:	Mud Rotary		
Spud Date:	8/12/2022	Time:	8:00 AM
TD Date:	8/19/2022	Time:	6:00 AM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1935.00ft	Ground Elevation:	1922.00ft
K.B. to Ground:	13.00ft		

NOTES

Positive drill stem tests results in the Arbuckle warranted running 5 1/2" production casing to TD with the intent to produce through open-hole completion methods.

A Tooke Daq gas detection system operated by Sterling Drilling was employed during the drilling of this well. ROP and gas data, as well as Gamma and Caliper curves from the electrical log suite were imported into this report.

Respectfully submitted,
Keith Reavis

Well Comparison Sheet

	Tiger Unit #1 Thomas Garner Inc - Sec. 17-24S-13W						Offset #1 Carl #1 TGI - Sec. 8-24S-13W		Offset #2 Roenbaugh #1 DRL Oil - Sec. 17-24S-13W		Offset #3 Garner #1 W-G Oil - Sec. 8-24S-13W		Offset #4 Henderson #1 TGI - Sec. 7-24S-13W	
	Note: Arb is sample top				KB=	1935	KB=	1931	KB=	1929	KB=	1925	KB=	1926
	Log Depth	Datum	Vs. Offset #1	Vs. Offset #2	Vs. Offset #3	Vs. Offset #4	Depth	Datum	Depth	Datum	Depth	Datum	Depth	Datum
AnH	813	1122	-3	8	12	14	806	1125	815	1114	815	1110	818	1108
Heeb	3413	-1478	-1	24	-3	4	3408	-1477	3431	-1502	3400	-1475	3408	-1482
Tor	3429	-1494	2	29	3	10	3427	-1496	3452	-1523	3422	-1497	3430	-1504
Douglas	3449	-1514	1	22	-4	6	3446	-1515	3465	-1536	3435	-1510	3446	-1520
BL	3550	-1615	-2	24	2	2	3544	-1613	3568	-1639	3542	-1617	3543	-1617
LKC	3578	-1643	-4	25	0	1	3570	-1639	3597	-1668	3568	-1643	3570	-1644
BKC	3833	-1898	3	30	4	3	3832	-1901	3857	-1928	3827	-1902	3827	-1901
Miss. Cht.	absent					1955	3880	-1949	3932	-2003	3873	-1948	3881	-1955
Kinderhook	3918	-1983	-16	33		-13	3898	-1967	3945	-2016		-	3896	-1970
Viola	3968	-2033	50	39	-35	19	4014	-2083	4001	-2072	3923	-1998	3978	-2052
Simp	4056	-2121	29	77	1	46	4081	-2150	4127	-2198	4047	-2122	4093	-2167
Simp. Sand	4078	-2143	16	74	7	38	4090	-2159	4146	-2217	4075	-2150	4107	-2181
Arb	4109	-2174	28	83	14	46	4133	-2202	4186	-2257	4113	-2188	4146	-2220
RTD	4117	-2182	77	114	48	68	4190	-2259	4225	-2296	4155	-2230	4176	-2250
LTD	4116	-2181	76	111	50		4188	-2257	4221	-2292	4156	-2231		-

Drill Stem Test #1

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, Ks. 67576

ATTN: Keith Reavis

17-24S-13W Stafford co

Tiger Unit #1

Job Ticket: 69531 **DST#: 1**

Test Start: 2022.08.16 @ 18:08:47

GENERAL INFORMATION:

Formation: **Lansing K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:39:27
Time Test Ended: 02:01:17

Test Type: Conventional Bottom Hole (Initial)
Tester: Eric Burgess
Unit No: 80

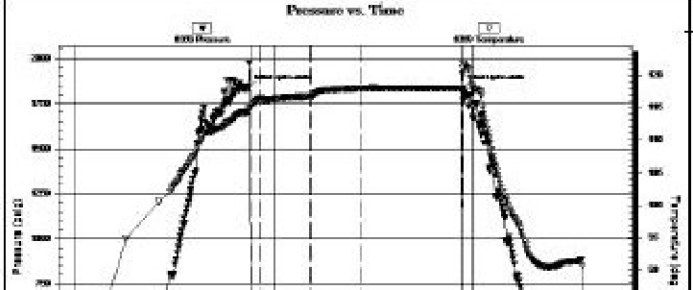
Interval: 3760.00 ft (KB) To 3788.00 ft (KB) (TVD)
Total Depth: 3788.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**
Press@Run Depth: 123.03 psig @ 3761.00 ft (KB)
Start Date: 2022.08.16 End Date: 2022.08.17
Start Time: 18:08:48 End Time: 02:01:17

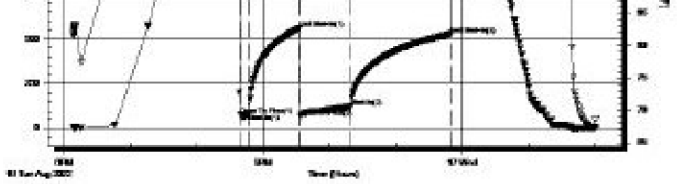
Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2022.08.16 @ 20:36:27
Time Off Btm: 2022.08.16 @ 23:50:47

TEST COMMENT: IF:Strong Building Blow built 218.06" (10)
ISI:No Blow Back (45)
FF:Strong Building Blow built 210.20"
FSI:.85" Blow Back (90)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1833.97	114.39	Initial Hydro-static
3	79.81	115.10	Open To Flow (1)
11	80.75	116.45	Shut-In(1)
56	557.05	116.72	End Shut-In(1)
58	64.39	116.67	Open To Flow (2)
103	123.03	118.02	Shut-In(2)
194	526.04	118.05	End Shut-In(2)



195	1833.13	121.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GVSOMCW 35%G 5%O 50%W 10%M	0.31
63.00	GVSOMCW 5%G 5%O 65%W 25%M	0.31
126.00	GOWCM 30%G 10%O 10%W 65%M	1.01
31.00	M 100%M	0.45
0.00	3150' GIP	0.00

Gas Rates

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

Drill Stem Test #2

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, Ks. 67576

ATTN: Keith Reavis

17-24S-13W Stafford co

Tiger Unit #1

Job Ticket: 69532 **DST#: 2**

Test Start: 2022.08.17 @ 10:20:04

GENERAL INFORMATION:

Formation: **Lansing L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:49:34
Time Test Ended: 15:31:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

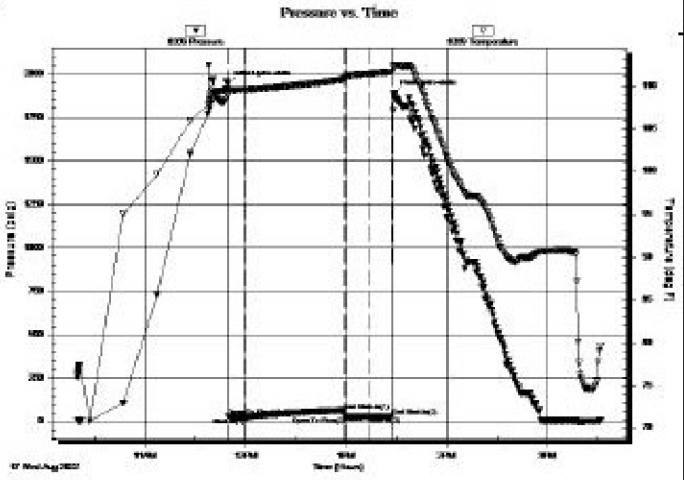
Interval: 3797.00 ft (KB) To 3825.00 ft (KB) (TVD)
Total Depth: 3825.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**
Press@Run Depth: 26.53 psig @ 3798.00 ft (KB)
Start Date: 2022.08.17 End Date: 2022.08.17
Start Time: 10:20:05 End Time: 15:31:24

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2022.08.17 @ 11:49:24
Time Off Btm: 2022.08.17 @ 13:28:34

TEST COMMENT: IF:Weak Building Blow built .25" in bucket (10)
ISI:No Blow Back (60)
FF:No Blow (15)
FSI:No Blow Back (10)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.73	109.46	Initial Hydro-static
1	27.34	108.89	Open To Flow (1)
10	24.59	109.53	Shut-In(1)
70	61.28	110.70	End Shut-In(1)
70	26.13	110.81	Open To Flow (2)
85	26.53	111.36	Shut-In(2)
98	28.85	111.59	End Shut-In(2)
100	1884.34	112.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

Gas Rates

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

*Recovery from multiple tests

Drill Stem Test #3

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, Ks. 67576

ATTN: Keith Reavis

17-24S-13W Stafford co

Tiger Unit #1

Job Ticket: 69533 **DST#: 3**

Test Start: 2022.08.18 @ 16:01:21

GENERAL INFORMATION:

Formation: **Simpson sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:33:01
Time Test Ended: 23:25:11

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

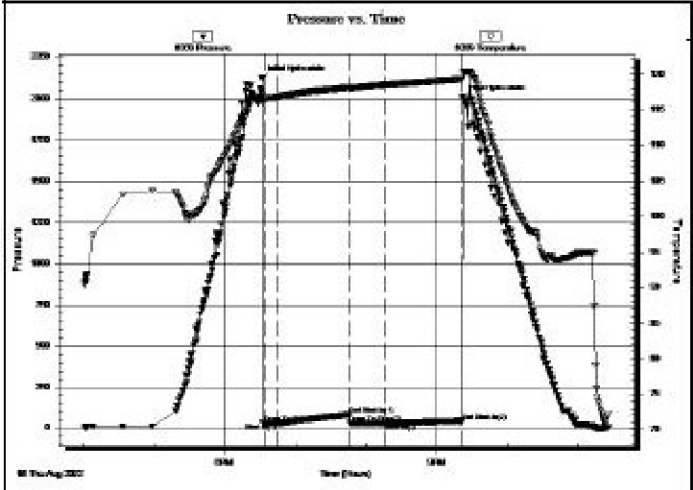
Interval: 4054.00 ft (KB) To 4100.00 ft (KB) (TVD)
Total Depth: 4100.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**
Press@RunDepth: 29.40 psig @ 4060.00 ft (KB)
Start Date: 2022.08.18 End Date: 2022.08.18
Start Time: 16:01:22 End Time: 23:25:11

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2022.08.18 @ 18:31:51
Time Off Btm: 2022.08.18 @ 21:22:00

TEST COMMENT: IF:Weak Building blow that died (10)
ISI:No Blow Back (60)
FF:No Blow (30)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.30	116.94	Initial Hydro-static
2	30.51	116.62	Open To Flow (1)
13	27.79	116.79	Shut-In(1)
74	84.25	118.12	End Shut-In(1)
74	77.40	118.12	Open To Flow (2)
104	29.40	118.46	Shut-In(2)
170	39.88	119.28	End Shut-In(2)
171	1998.77	120.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

*Recovery from multiple tests

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Thomas Garner Inc.
20 NE 20th Ave.
St John, Ks. 67576

ATTN: Keith Reavis

17-24S-13W Stafford co

Tiger Unit #1

Job Ticket: 69534 **DST#:4**

Test Start: 2022.08.19 @ 08:08:07

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:08:37
Time Test Ended: 16:51:47

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

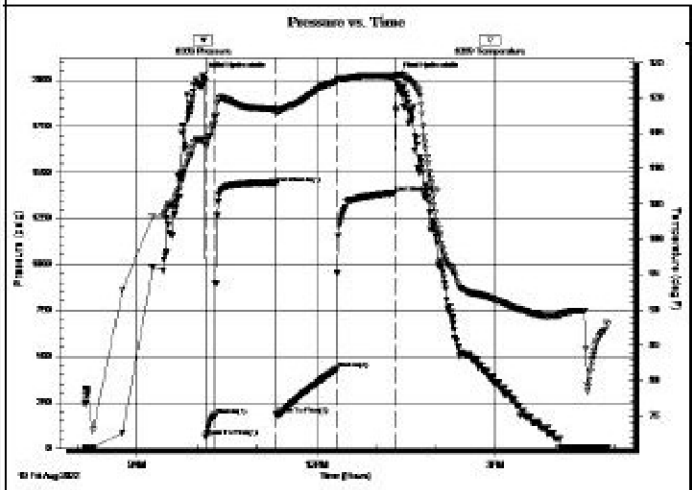
Interval: 4052.00 ft (KB) To 4117.00 ft (KB) (TVD)
Total Depth: 4117.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**
Press@Run Depth: 430.70 psig @ 4068.00 ft (KB)
Start Date: 2022.08.19 End Date: 2022.08.19
Start Time: 08:08:08 End Time: 16:51:47

Capacity: 8000.00 psig
Last Calib.: 2022.08.19
Time On Btm: 2022.08.19 @ 10:05:47
Time Off Btm: 2022.08.19 @ 13:20:27

TEST COMMENT: IF:Strong Building Blow built 19.20" (10)
ISI:No Blow Back (60)
FF:Strong Building Blow built 121.09" (60)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.35	114.01	Initial Hydro-static
3	64.15	113.18	Open To Flow (1)
13	180.66	117.20	Shut-In(1)
74	1438.20	118.31	End Shut-In(1)
74	182.13	117.86	Open To Flow (2)
135	430.70	122.34	Shut-In(2)
194	1389.17	122.98	End Shut-In(2)
195	2025.80	123.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MCO 85%O 15%M	0.93
441.00	MCO 95%O 5%M	6.23
126.00	MCO 70%O 30%M	1.84
315.00	O 100%O	4.61
0.00	1134' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

ROCK TYPES

Cht vari
Dolprim
Lmst fw<7
Lmst fw7>
shale, grn
shale, gry
Carbon Sh
shale, red
Shcol
Ss

ACCESSORIES

MINERAL
Dolomitic
P Pyrite
Chert White

FOSSIL
Bioclastic or Fragmenta
F Fossils < 20%
Oolite
Fussilinid

STRINGER
Limestone
Siltstone

TEXTURE
C Chalky
L Lithogr

OTHER SYMBOLS

Oil Show
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- Dead Oil Stn
- Fluorescence
- Gas

DST
- DST Int
- DST alt
- Core
- tail pipe

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1
ROP (min/ft)
Gamma (API)
Cal (in)
1:240 Imperial

Depth | Intervals
Cored Interval
DST Interval

DST

Lithology

Oil Show

Geological Descriptions

TG, C1 - C5
Total Gas (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
1:240 Imperial

0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16

3320
3340
3360
3380
3400
3420
3440

Queen Hill 3,311' (-1376)

Started 10' Samples at 3350'!

LS - Crm/Gray, Fine Xtln, dense, few pinpoint porosity, mostly tight, with a few fossils IP, pieces of soft wht chalk

LS - Crm/Gray, micro xtln, very dense, w/ poor porosity, some carbonaceous material on samples

LS - Gry/Crm, Fine to Micro Xtln, mostly dense with some edge vugs and pinpoint porosity, no show.

LS - AS Above, more Crm w/ Chalk in parts

LS - Crm fine - micro xtln, w/ pinpoint porosity, a few dense, no shows

LS - Gray/Tn - Micro Xtln, dense, with poor porosity, and various dark gray shales

LS - Crm/Lght Gray Micro Xtln, Dense, no visible porosity w/ few fossils IP, no shows no odor

LS - Gry, Micro Xtln, Very Dense, poor visible porosity,

Heebner Shale 3,416' (-1481')

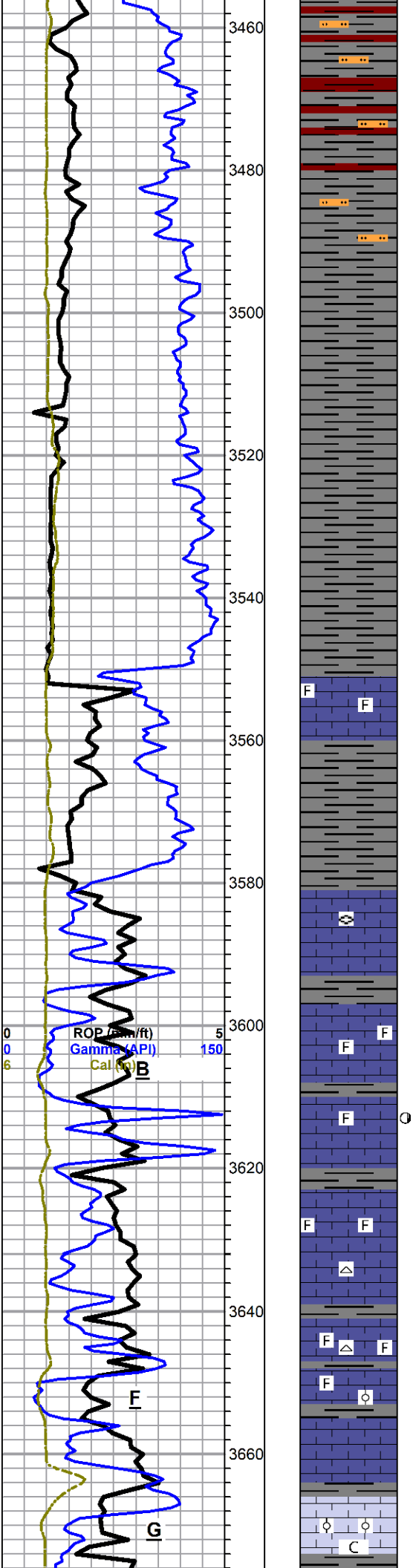
SH - Black Carb. (152 Unit Kick)

SH - Gray, Mostly Dense w/ a Few Soft, laminated and Blocky

Toronto 3,434' (-1499')

LS - Crm, Micro - Fine Xtln, mosty Dense, with a few vugs, pinpoint porosity and fossils scattered throughout. Scattered white chalk No shows no odor

Douglas 3,451' (-1516)



SH - Various Colors (Gray/Drk Gray, Maroon, Tan). Blocky to gummy. Few pieces of siltstone intermingled.

SH - As Above

SH - As above, fewer maroon shells and more gray shales. Siltstones throughout.

Sh - As Above, all gray and dark gray shales. Mostly blocky soft pieces.

Brown Lime 3,552' (-1617')

LS - Brown/Gry, Fine Xtln, dense, with poor visible porosity, few fossils in place, No Shows/No Odor

SH - Gray, blocky, w/ laminated

Lansing 3,582' (-1647')

LS - Various Grays, Micro Xtln, Dense, with few fossils, poor porosity, few pieces with micaceaous minerals. No Shows/No Odor.

LS - Lght Gray, Micro Xtln, mosty dense, with a few pieces with edge fracture, with very faint odor, and film in cup. 1 Piece with edge stain

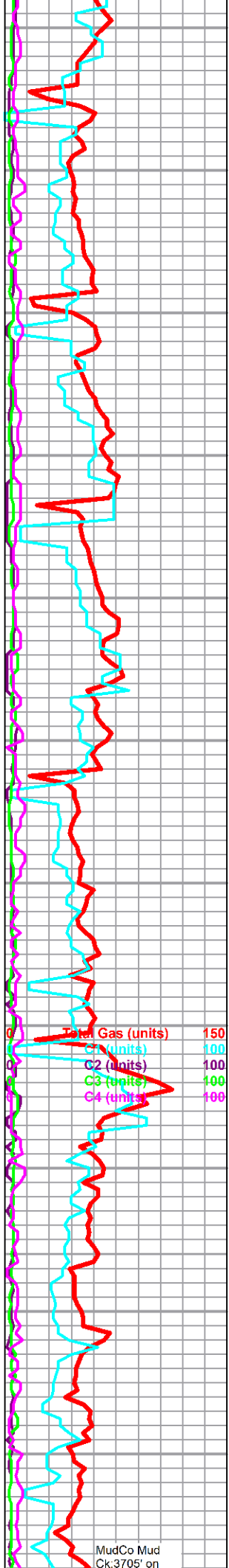
3617 (30") LS - Gray As Above, few pieces with edge stain, and pinpoint interxtln staining better odor in cup. No Free Oil in Tray, No Oil when broke apart.

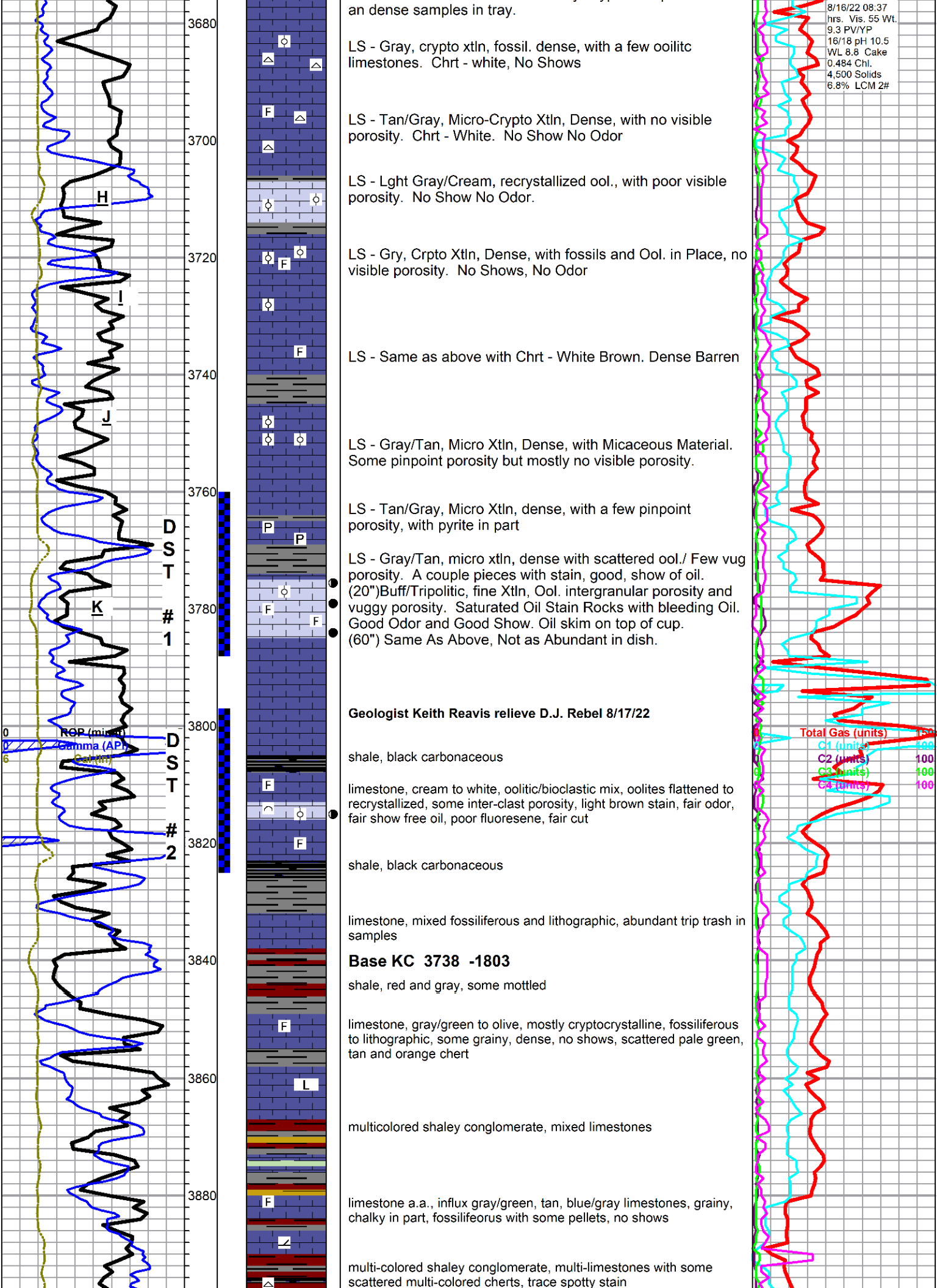
LS - Drk Gray/Tan, Micro-Crypto Xtln, mostly dense with a few pieces of pinpoint porosity, few fossils. Chrt - White to off white, Brwn. No Show No Odor.

LS - AA, with more Gry crypto xtln pieces, and fossils throughout. No Show No Odor.

LS - Cream, oolitic to oomoldic, pinpoint and ool. porosity in pieces, White Chalk, No Show No Oil

LS - Same As Above with more Gry Crypto Xtln pieces and





an dense samples in tray.

LS - Gray, crypto xtln, fossil. dense, with a few ooilitc limestones. Chrt - white, No Shows

LS - Tan/Gray, Micro-Crypto Xtln, Dense, with no visible porosity. Chrt - White. No Show No Odor

LS - Lght Gray/Cream, recrystallized ool., with poor visible porosity. No Show No Odor.

LS - Gry, Crpto Xtln, Dense, with fossils and Ool. in Place, no visible porosity. No Shows, No Odor

LS - Same as above with Chrt - White Brown. Dense Barren

LS - Gray/Tan, Micro Xtln, Dense, with Micaceous Material. Some pinpoint porosity but mostly no visible porosity.

LS - Tan/Gray, Micro Xtln, dense, with a few pinpoint porosity, with pyrite in part

LS - Gray/Tan, micro xtln, dense with scattered ool./ Few vug porosity. A couple pieces with stain, good, show of oil. (20")Buff/Tripolitic, fine Xtln, Ool. intergranular porosity and vuggy porosity. Saturated Oil Stain Rocks with bleeding Oil. Good Odor and Good Show. Oil skim on top of cup. (60") Same As Above, Not as Abundant in dish.

Geologist Keith Reavis relieve D.J. Rebel 8/17/22

shale, black carbonaceous

limestone, cream to white, oolitic/bioclastic mix, oolites flattened to recrystallized, some inter-clast porosity, light brown stain, fair odor, fair show free oil, poor fluoresene, fair cut

shale, black carbonaceous

limestone, mixed fossiliferous and lithographic, abundant trip trash in samples

Base KC 3738 -1803

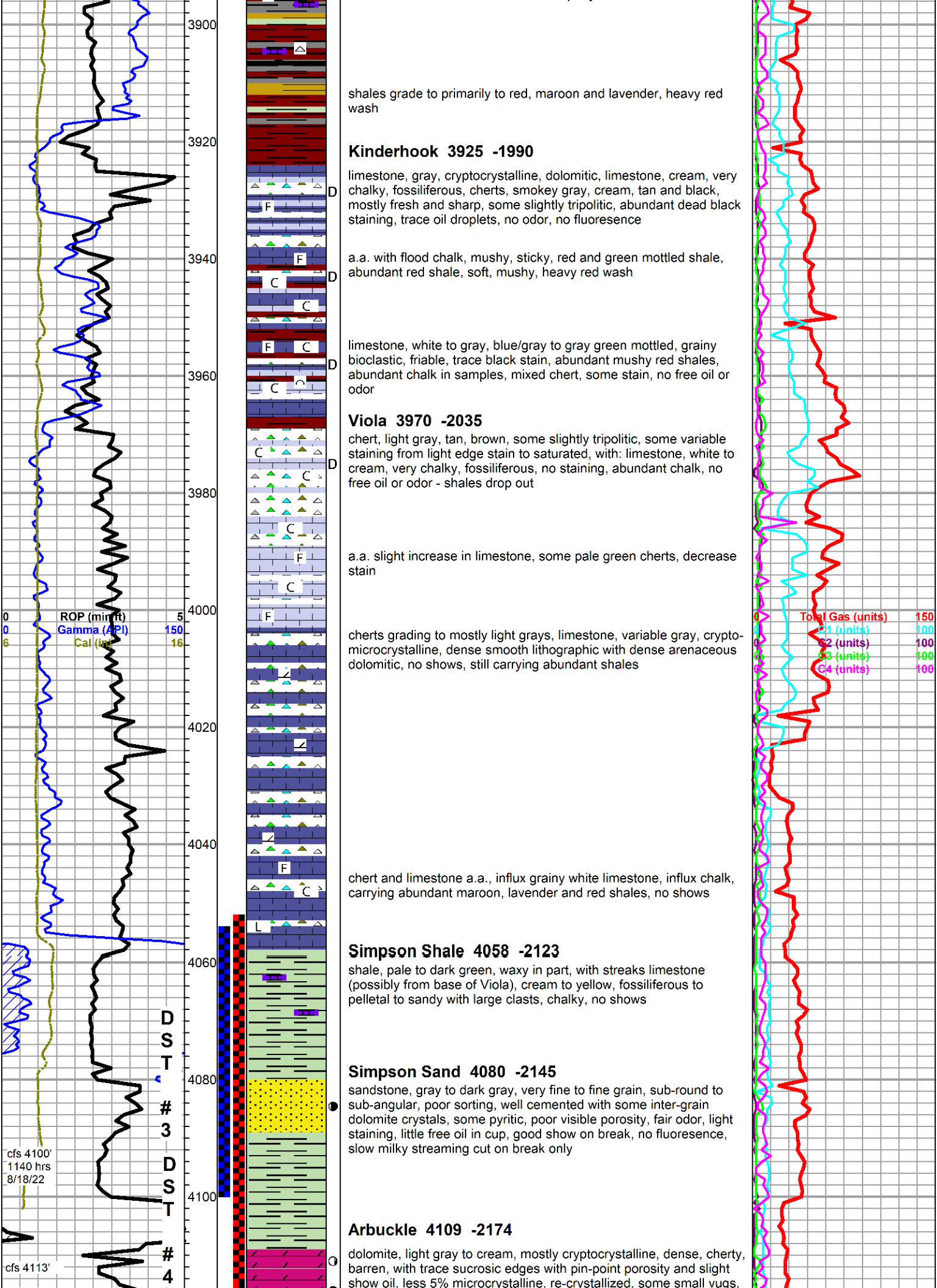
shale, red and gray, some mottled

limestone, gray/green to olive, mostly cryptocrystalline, fossiliferous to lithographic, some grainy, dense, no shows, scattered pale green, tan and orange chert

multicolored shaley conglomerate, mixed limestones

limestone a.a., influx gray/green, tan, blue/gray limestones, grainy, chalky in part, fossilifeorus with some pellets, no shows

multi-colored shaley conglomerate, multi-limestones with some scattered multi-colored cherts, trace spotty stain



shales grade to primarily to red, maroon and lavender, heavy red wash

Kinderhook 3925 -1990

limestone, gray, cryptocrystalline, dolomitic, limestone, cream, very chalky, fossiliferous, cherts, smokey gray, cream, tan and black, mostly fresh and sharp, some slightly tripolitic, abundant dead black staining, trace oil droplets, no odor, no fluoresence

a.a. with flood chalk, mushy, sticky, red and green mottled shale, abundant red shale, soft, mushy, heavy red wash

limestone, white to gray, blue/gray to gray green mottled, grainy bioclastic, friable, trace black stain, abundant mushy red shales, abundant chalk in samples, mixed chert, some stain, no free oil or odor

Viola 3970 -2035

chert, light gray, tan, brown, some slightly tripolitic, some variable staining from light edge stain to saturated, with: limestone, white to cream, very chalky, fossiliferous, no staining, abundant chalk, no free oil or odor - shales drop out

a.a. slight increase in limestone, some pale green cherts, decrease stain

cherts grading to mostly light grays, limestone, variable gray, crypto-microcrystalline, dense smooth lithographic with dense arenaceous dolomitic, no shows, still carrying abundant shales

chert and limestone a.a., influx grainy white limestone, influx chalk, carrying abundant maroon, lavender and red shales, no shows

Simpson Shale 4058 -2123

shale, pale to dark green, waxy in part, with streaks limestone (possibly from base of Viola), cream to yellow, fossiliferous to pelletal to sandy with large clasts, chalky, no shows

Simpson Sand 4080 -2145

sandstone, gray to dark gray, very fine to fine grain, sub-round to sub-angular, poor sorting, well cemented with some inter-grain dolomite crystals, some pyritic, poor visible porosity, fair odor, light staining, little free oil in cup, good show on break, no fluoresence, slow milky streaming cut on break only

Arbuckle 4109 -2174

dolomite, light gray to cream, mostly cryptocrystalline, dense, cherty, barren, with trace sucrosic edges with pin-point porosity and slight show oil, less 5% microcrystalline, re-crystallized, some small vugs,

cfs 4117'

4120

4140

no stain, fair show on break, faint odor, good green fluoresence, poor cut, white oolitic cherts

4117 cfs sampes, dolomite, cryptocrystalline a.a. w/influx light gray to cream, microcrystalline rhombic, sub-rhombic, fine oolitic/oomoldic, small solution vugs, edge etching with stain, some secondary large dolomite crystals, fair odor, fair show on break, good fluoresence, good cut on break
Note: good even light golden brown stain in dry samples



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Thomas Garner Inc.**

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

Tiger Unit #1

17-24S-13W Stafford,KS

Start Date: 2022.08.16 @ 18:08:47

End Date: 2022.08.17 @ 02:01:17

Job Ticket #: 69531 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.08.25 @ 08:43:20

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69531 **DST#: 1**

Test Start: 2022.08.16 @ 18:08:47

GENERAL INFORMATION:

Formation: **LKC K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:39:27
Time Test Ended: 02:01:17

Test Type: Conventional Bottom Hole (Initial)
Tester: Eric Burgess
Unit No: 80

Interval: 3760.00 ft (KB) To 3788.00 ft (KB) (TVD)
Total Depth: 3788.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

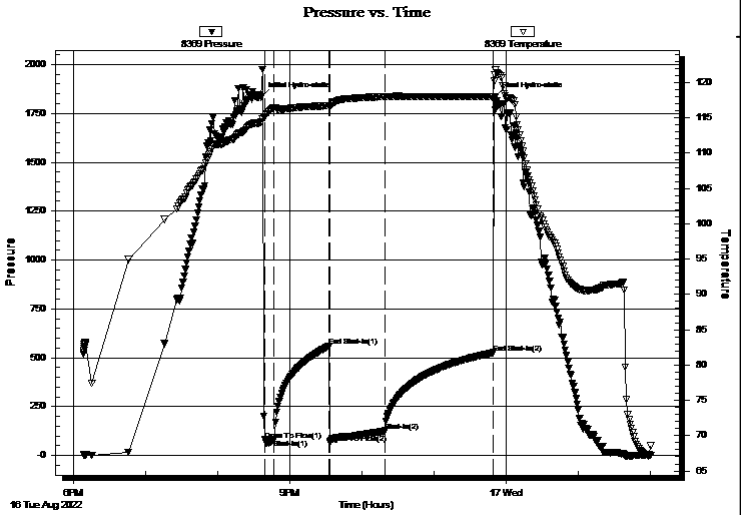
Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 123.03 psig @ 3761.00 ft (KB)
Start Date: 2022.08.16 End Date: 2022.08.17
Start Time: 18:08:48 End Time: 02:01:17

Capacity: 8000.00 psig
Last Calib.: 2022.08.16
Time On Btm: 2022.08.16 @ 20:36:27
Time Off Btm: 2022.08.16 @ 23:50:47

TEST COMMENT: IF:Strong Building Blow built 218.06" (10)
ISI:No Blow Back (45)
FF:Strong Building Blow built 210.20"
FSI:.85" Blow Back (90)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1833.97	114.39	Initial Hydro-static
3	79.81	115.10	Open To Flow (1)
11	80.75	116.45	Shut-In(1)
56	557.05	116.72	End Shut-In(1)
58	64.39	116.67	Open To Flow (2)
103	123.03	118.02	Shut-In(2)
194	526.04	118.05	End Shut-In(2)
195	1833.13	121.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GVSOMCW 35%G 5%O 50%W 10%M	0.31
63.00	GVSOMCW 5%G 5%O 65%W 25%M	0.31
126.00	GOWCM 30%G 10%O 10%W 65%M	1.01
31.00	M 100%M	0.45
0.00	3150' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69531 **DST#: 1**

Test Start: 2022.08.16 @ 18:08:47

GENERAL INFORMATION:

Formation: **LKC K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:39:27
Time Test Ended: 02:01:17

Test Type: Conventional Bottom Hole (Initial)
Tester: Eric Burgess
Unit No: 80

Interval: 3760.00 ft (KB) To 3788.00 ft (KB) (TVD)
Total Depth: 3788.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

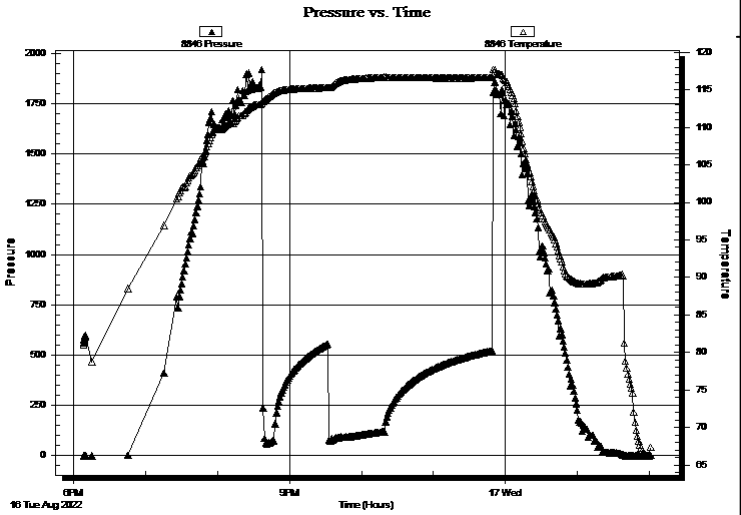
Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8846 **Inside**

Press@RunDepth: psig @ 3761.00 ft (KB)
Start Date: 2022.08.16 End Date: 2022.08.17
Start Time: 18:08:27 End Time: 02:01:06

Capacity: 8000.00 psig
Last Calib.: 2022.08.17
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Strong Building Blow built 218.06" (10)
ISI:No Blow Back (45)
FF:Strong Building Blow built 210.20"
FSI:.85" Blow Back (90)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
63.00	GVSOMCW 35%G 5%O 50%W 10%M	0.31
63.00	GVSOMCW 5%G 5%O 65%W 25%M	0.31
126.00	GOWCM 30%G 10%O 10%W 65%M	1.01
31.00	M 100%M	0.45
0.00	3150' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69531 **DST#: 1**

Test Start: 2022.08.16 @ 18:08:47

Tool Information

Drill Pipe:	Length:	3544.00 ft	Diameter:	3.88	inches	Volume:	51.83	bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:		inches	Volume:	-	bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	212.00 ft	Diameter:	2.25	inches	Volume:	1.04	bbl	Weight to Pull Loose:	24000.00 lb
						Total Volume:	-	bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		27.00 ft							String Weight: Initial	62000.00 lb
Depth to Top Packer:		3760.00 ft							Final	65000.00 lb
Depth to Bottom Packer:		ft								
Interval betw een Packers:		28.00 ft								
Tool Length:		59.00 ft								
Number of Packers:		2	Diameter:	6.75	inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3730.00		
Shut In Tool	5.00			3735.00		
Hydraulic tool	5.00			3740.00		
Em Tool	3.00			3743.00		
Jars	5.00			3748.00		
Safety Joint	3.00			3751.00		
Packer	4.00			3755.00	31.00	Bottom Of Top Packer
Packer	5.00			3760.00		
Stubb	1.00			3761.00		
Recorder	0.00	8369	Outside	3761.00		
Recorder	0.00	8846	Inside	3761.00		
Perforations	24.00			3785.00		
Bullnose	3.00			3788.00	28.00	Bottom Packers & Anchor
Total Tool Length:	**59.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69531 **DST#: 1**

Test Start: 2022.08.16 @ 18:08:47

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:	6500 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

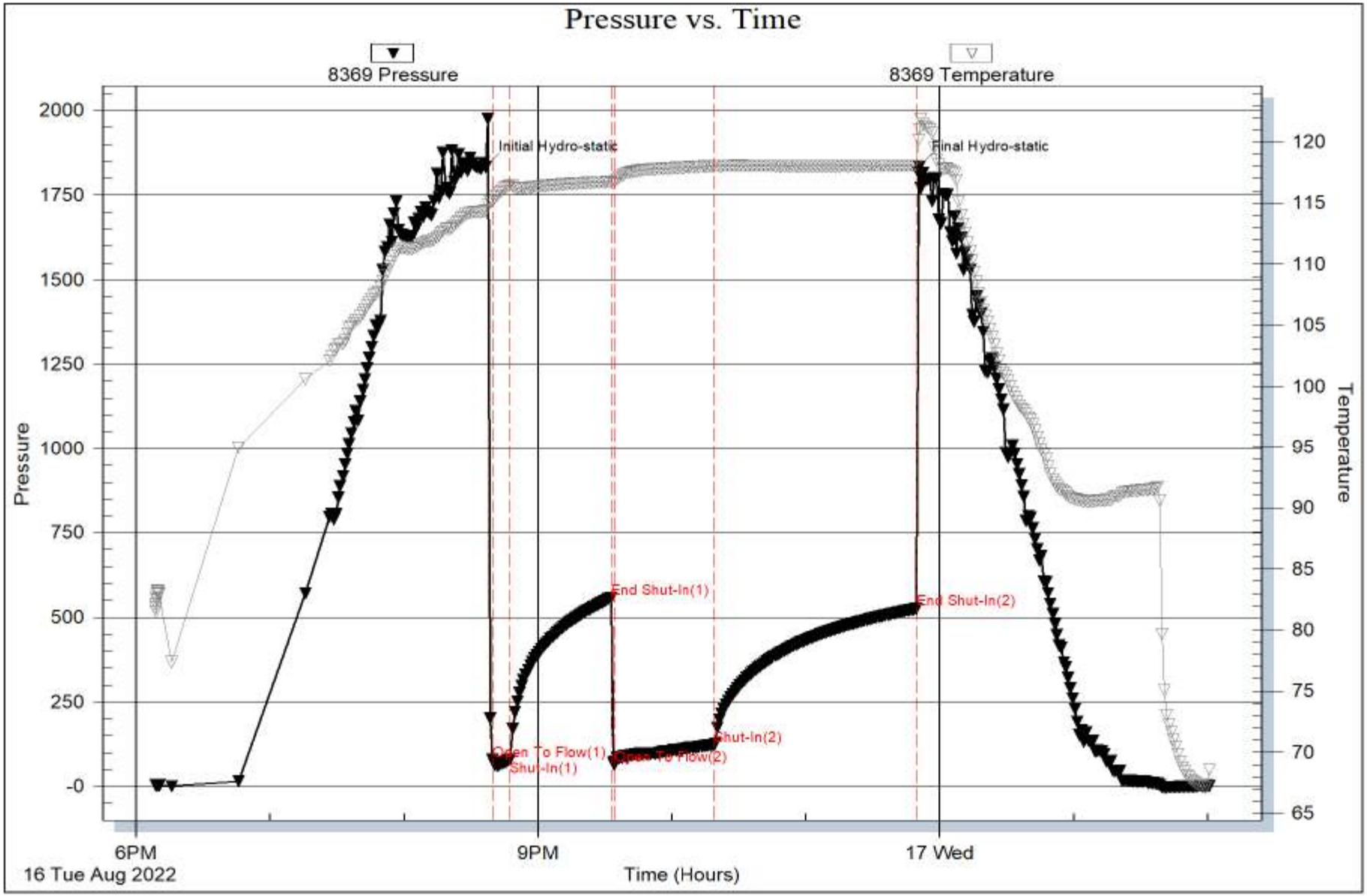
Recovery Table

Length ft	Description	Volume bbl
63.00	GVSOMCW 35%G 5%O 50%W 10%M	0.310
63.00	GVSOMCW 5%G 5%O 65%W 25%M	0.310
126.00	GOWCM 30%G 10%O 10%W 65%M	1.008
31.00	M 100%M	0.453
0.00	3150' GIP	0.000

Total Length: 283.00 ft Total Volume: 2.081 bbl

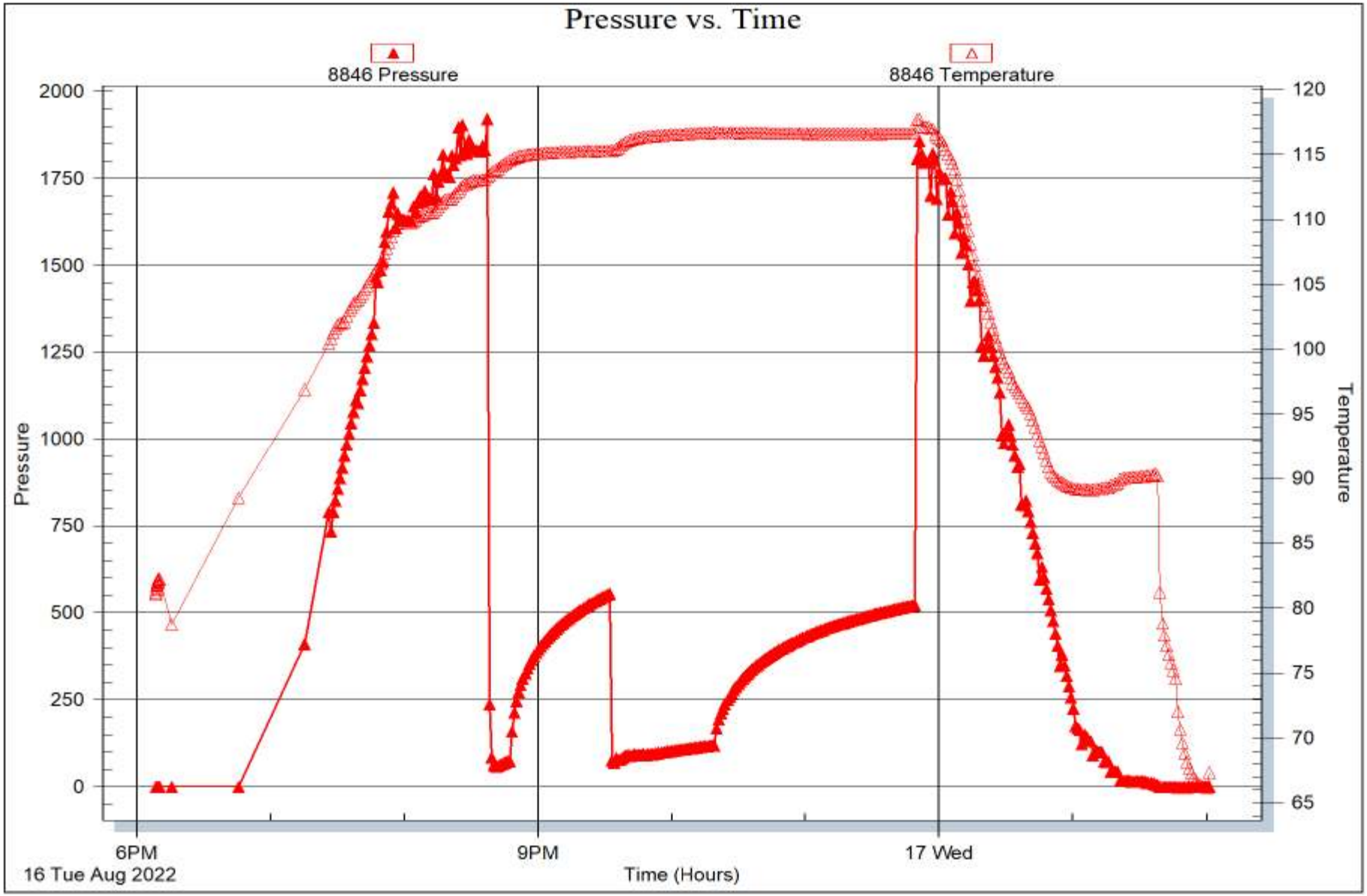
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8369 **Outside** Thomas Garner Inc. Tiger Unit #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69531 Printed: 2022.08.25 @ 08:43:20

Serial #: 8846 **Inside** Thomas Garner Inc. Tiger Unit #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69531 Printed: 2022.08.25 @ 08:43:20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Thomas Garner Inc.**

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

Tiger Unit #1

17-24S-13W Stafford,KS

Start Date: 2022.08.17 @ 10:20:04
End Date: 2022.08.17 @ 15:31:24
Job Ticket #: 69532 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.08.25 @ 08:42:15

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69532 **DST#: 2**

Test Start: 2022.08.17 @ 10:20:04

GENERAL INFORMATION:

Formation: **LKC L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:49:34
Time Test Ended: 15:31:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

Interval: 3797.00 ft (KB) To 3825.00 ft (KB) (TVD)
Total Depth: 3825.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

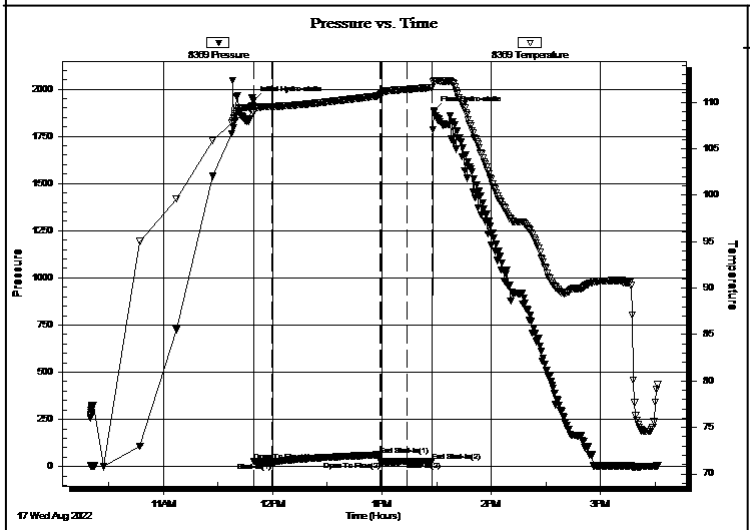
Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 26.53 psig @ 3798.00 ft (KB)
Start Date: 2022.08.17 End Date: 2022.08.17
Start Time: 10:20:05 End Time: 15:31:24

Capacity: 8000.00 psig
Last Calib.: 2022.08.17
Time On Btm: 2022.08.17 @ 11:49:24
Time Off Btm: 2022.08.17 @ 13:28:34

TEST COMMENT: IF:Weak Building Blow built .25" in bucket (10)
ISI:No Blow Back (60)
FF:No Blow (15)
FSI:No Blow Back (10)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.73	109.46	Initial Hydro-static
1	27.34	108.89	Open To Flow (1)
10	24.59	109.53	Shut-In(1)
70	61.28	110.70	End Shut-In(1)
70	26.13	110.81	Open To Flow (2)
85	26.53	111.36	Shut-In(2)
98	28.85	111.59	End Shut-In(2)
100	1884.34	112.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69532 **DST#: 2**

Test Start: 2022.08.17 @ 10:20:04

GENERAL INFORMATION:

Formation: **LKC L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:49:34
Time Test Ended: 15:31:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

Interval: 3797.00 ft (KB) To 3825.00 ft (KB) (TVD)
Total Depth: 3825.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

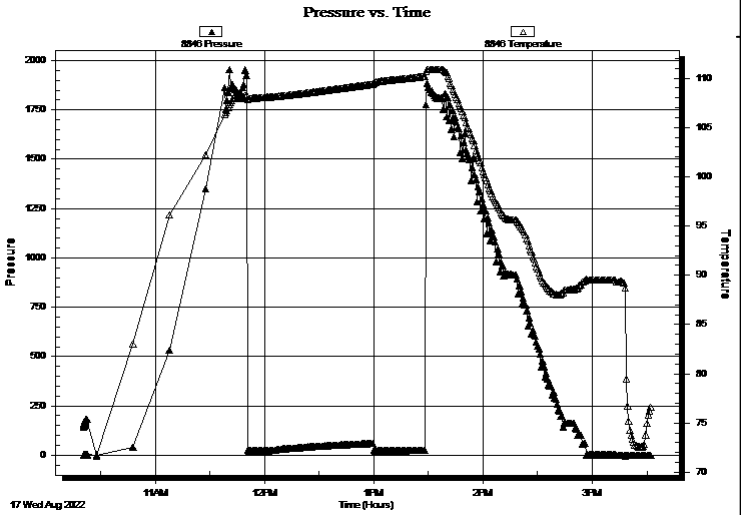
Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8846 **Inside**

Press@RunDepth: psig @ 3798.00 ft (KB)
Start Date: 2022.08.17 End Date: 2022.08.17
Start Time: 10:20:45 End Time: 15:32:24

Capacity: 8000.00 psig
Last Calib.: 2022.08.17
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Weak Building Blow built .25" in bucket (10)
ISI:No Blow Back (60)
FF:No Blow (15)
FSI:No Blow Back (10)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69532 **DST#: 2**

Test Start: 2022.08.17 @ 10:20:04

Tool Information

Drill Pipe:	Length:	3571.00 ft	Diameter:	3.88	inches	Volume:	52.22	bbl	
Heavy Wt. Pipe:	Length:	ft	Diameter:		inches	Volume:	-	bbl	
Drill Collar:	Length:	212.00 ft	Diameter:	2.25	inches	Volume:	1.04	bbl	
						Total Volume:	-	bbl	

Drill Pipe Above KB:	17.00 ft
Depth to Top Packer:	3797.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	28.00 ft
Tool Length:	59.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		24000.00 lb
Weight to Pull Loose:		24000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	62000.00 lb
	Final	62000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3767.00		
Shut In Tool	5.00			3772.00		
Hydraulic tool	5.00			3777.00		
Em Tool	3.00			3780.00		
Jars	5.00			3785.00		
Safety Joint	3.00			3788.00		
Packer	4.00			3792.00	31.00	Bottom Of Top Packer
Packer	5.00			3797.00		
Stubb	1.00			3798.00		
Recorder	0.00	8369	Outside	3798.00		
Recorder	0.00	8846	Inside	3798.00		
Perforations	24.00			3822.00		
Bullnose	3.00			3825.00	28.00	Bottom Packers & Anchor
Total Tool Length:	**59.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69532 **DST#: 2**

Test Start: 2022.08.17 @ 10:20:04

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:	62.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5500.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

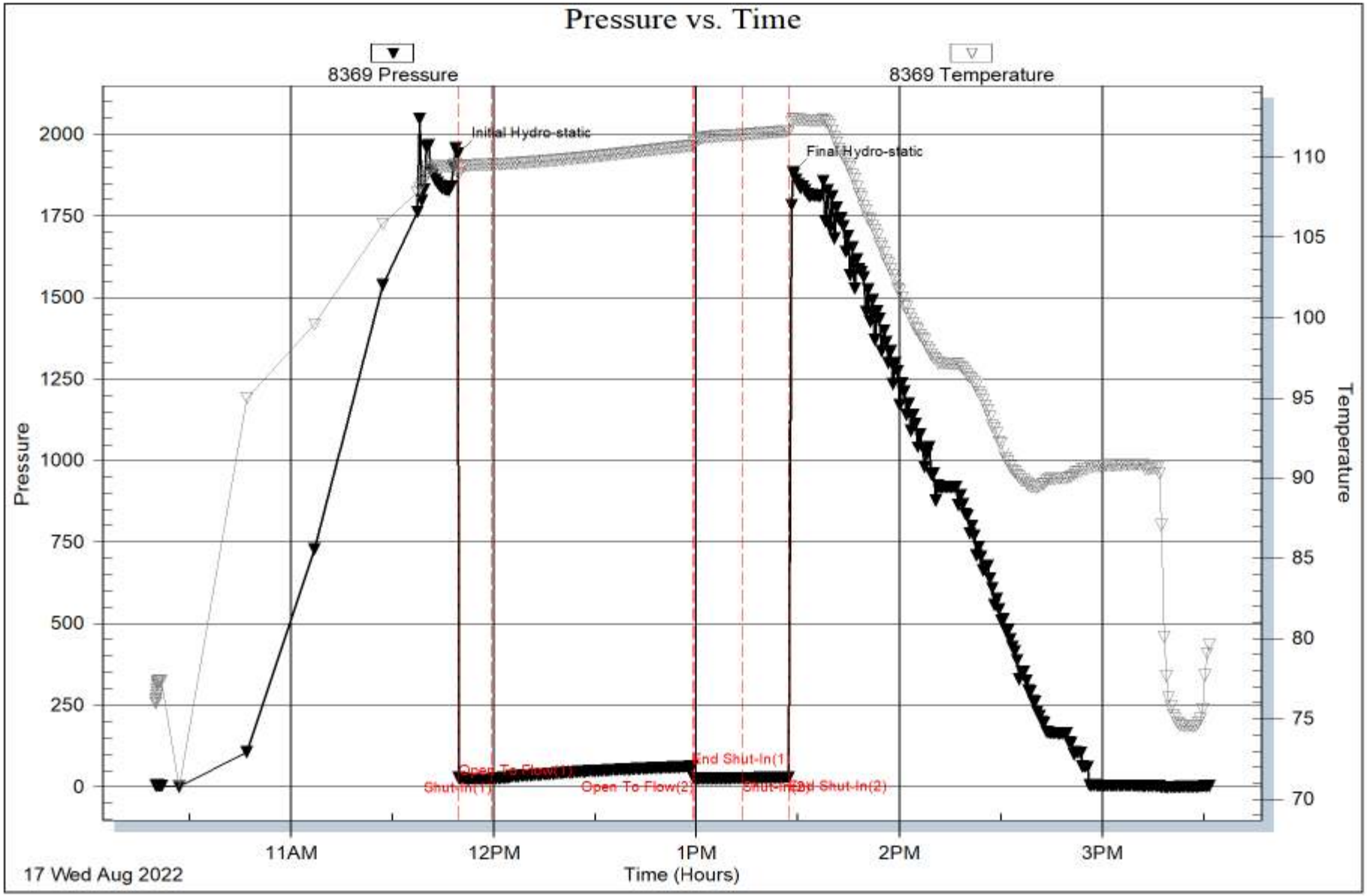
Recovery Table

Length ft	Description	Volume bbl
5.00	M 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

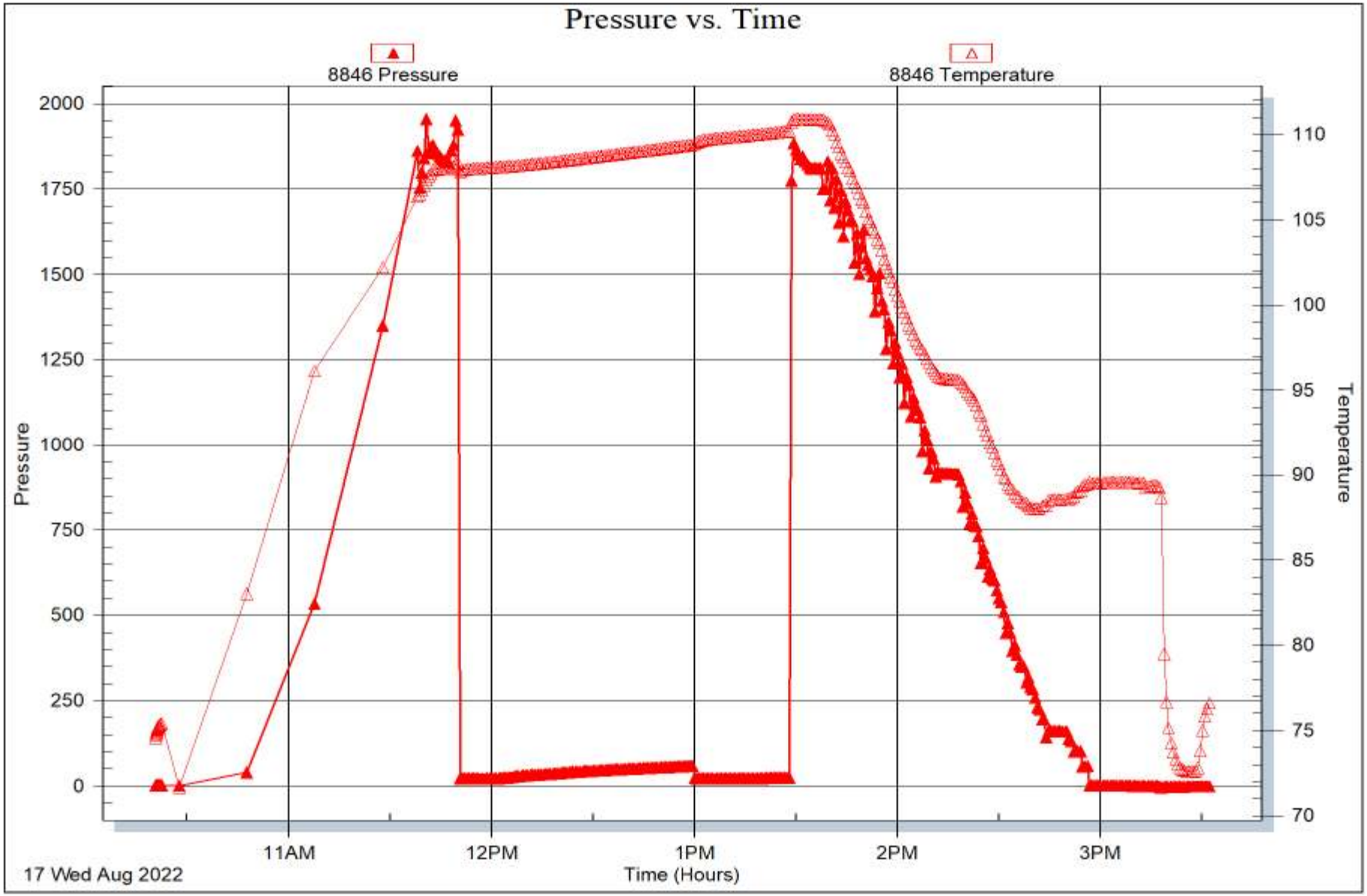
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8369 **Outside** Thomas Garner Inc. Tiger Unit #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 69532 Printed: 2022.08.25 @ 08:42:18

Serial #: 8846 **Inside** Thomas Garner Inc. Tiger Unit #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 69532 Printed: 2022.08.25 @ 08:42:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Thomas Garner Inc.**

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

Tiger Unit #1

17-24S-13W Stafford,KS

Start Date: 2022.08.18 @ 16:01:21

End Date: 2022.08.18 @ 23:25:11

Job Ticket #: 69533 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.08.25 @ 08:39:30

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69533 **DST#: 3**

Test Start: 2022.08.18 @ 16:01:21

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:33:01
Time Test Ended: 23:25:11

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

Interval: 4054.00 ft (KB) To 4100.00 ft (KB) (TVD)
Total Depth: 4100.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

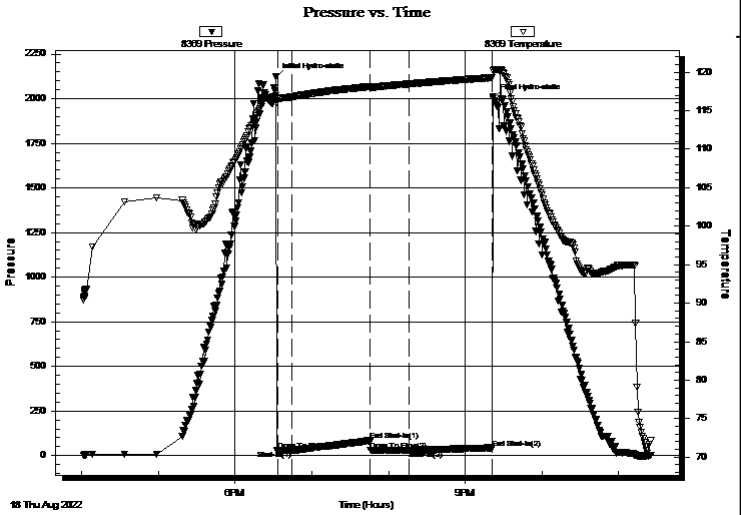
Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 29.40 psig @ 4060.00 ft (KB)
Start Date: 2022.08.18 End Date: 2022.08.18
Start Time: 16:01:22 End Time: 23:25:11

Capacity: 8000.00 psig
Last Calib.: 2022.08.18
Time On Btm: 2022.08.18 @ 18:31:51
Time Off Btm: 2022.08.18 @ 21:22:00

TEST COMMENT: IF:Weak Building blow that died (10)
ISI:No Blow Back (60)
FF:No Blow (30)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.30	116.94	Initial Hydro-static
2	30.51	116.62	Open To Flow (1)
13	27.79	116.79	Shut-In(1)
74	84.25	118.12	End Shut-In(1)
74	77.40	118.12	Open To Flow (2)
104	29.40	118.46	Shut-In(2)
170	39.88	119.28	End Shut-In(2)
171	1998.77	120.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69533 **DST#: 3**

Test Start: 2022.08.18 @ 16:01:21

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:33:01
Time Test Ended: 23:25:11

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

Interval: 4054.00 ft (KB) To 4100.00 ft (KB) (TVD)
Total Depth: 4100.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

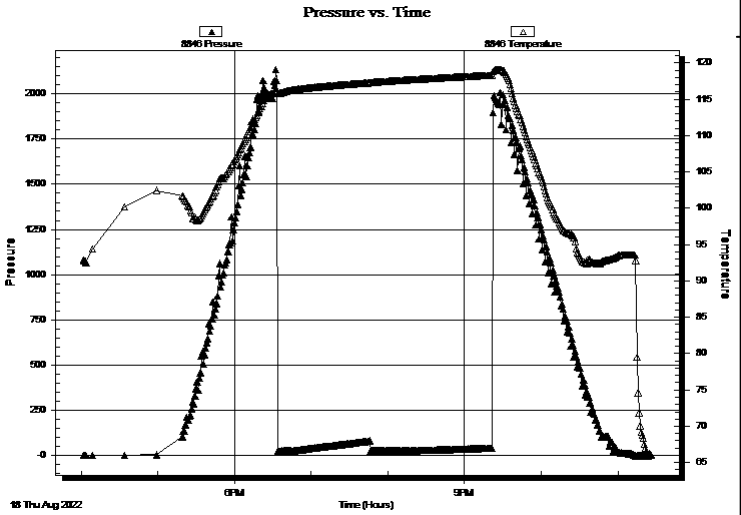
Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8846 **Outside**

Press@RunDepth: psig @ 4060.00 ft (KB)
Start Date: 2022.08.18 End Date: 2022.08.18
Start Time: 16:01:52 End Time: 23:26:01

Capacity: 8000.00 psig
Last Calib.: 2022.08.18
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Weak Building blow that died (10)
ISI:No Blow Back (60)
FF:No Blow (30)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69533 **DST#: 3**

Test Start: 2022.08.18 @ 16:01:21

Tool Information

Drill Pipe:	Length:	3827.00 ft	Diameter:	3.88	inches	Volume:	55.97	bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:		inches	Volume:	0.00	bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	212.00 ft	Diameter:	2.25	inches	Volume:	1.04	bbl	Weight to Pull Loose:	24000.00 lb
						Total Volume:	57.01	bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		16.00 ft							String Weight: Initial	66000.00 lb
Depth to Top Packer:		4054.00 ft							Final	66000.00 lb
Depth to Bottom Packer:		ft								
Interval betw een Packers:		46.00 ft								
Tool Length:		77.00 ft								
Number of Packers:		2	Diameter:	6.75	inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4024.00		
Shut In Tool	5.00			4029.00		
Hydraulic tool	5.00			4034.00		
Em Tool	3.00			4037.00		
Jars	5.00			4042.00		
Safety Joint	3.00			4045.00		
Packer	4.00			4049.00	31.00	Bottom Of Top Packer
Packer	5.00			4054.00		
Stubb	1.00			4055.00		
Perforations	4.00			4059.00		
Change Over Sub	1.00			4060.00		
Recorder	0.00	8369	Outside	4060.00		
Recorder	0.00	8846	Outside	4060.00		
Blank Spacing	31.00			4091.00		
Change Over Sub	1.00			4092.00		
Perforations	5.00			4097.00		
Bullnose	3.00			4100.00	46.00	Bottom Packers & Anchor
Total Tool Length:	**77.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69533 **DST#: 3**

Test Start: 2022.08.18 @ 16:01:21

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

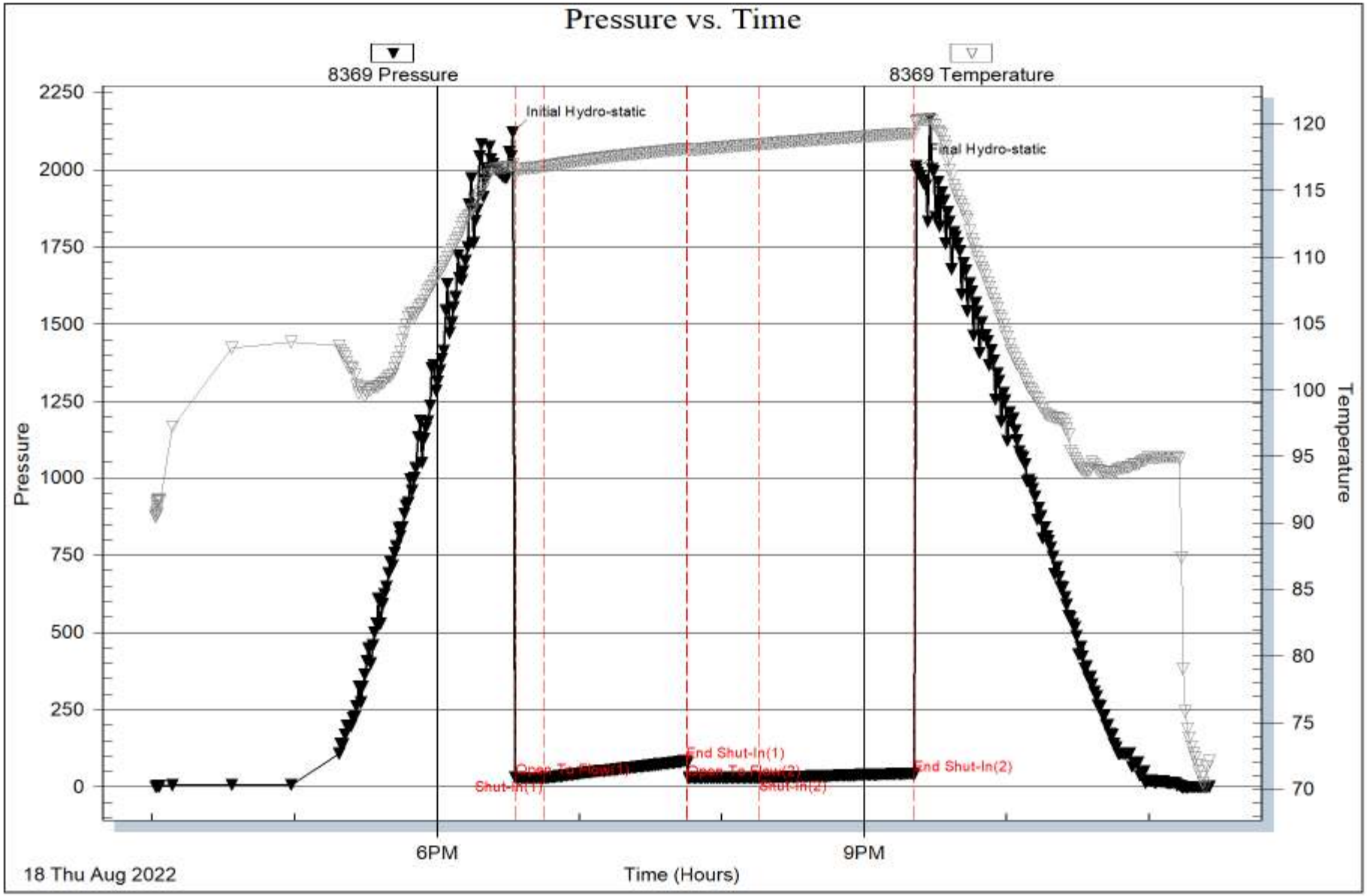
Recovery Table

Length ft	Description	Volume bbl
5.00	M 100%M	0.025

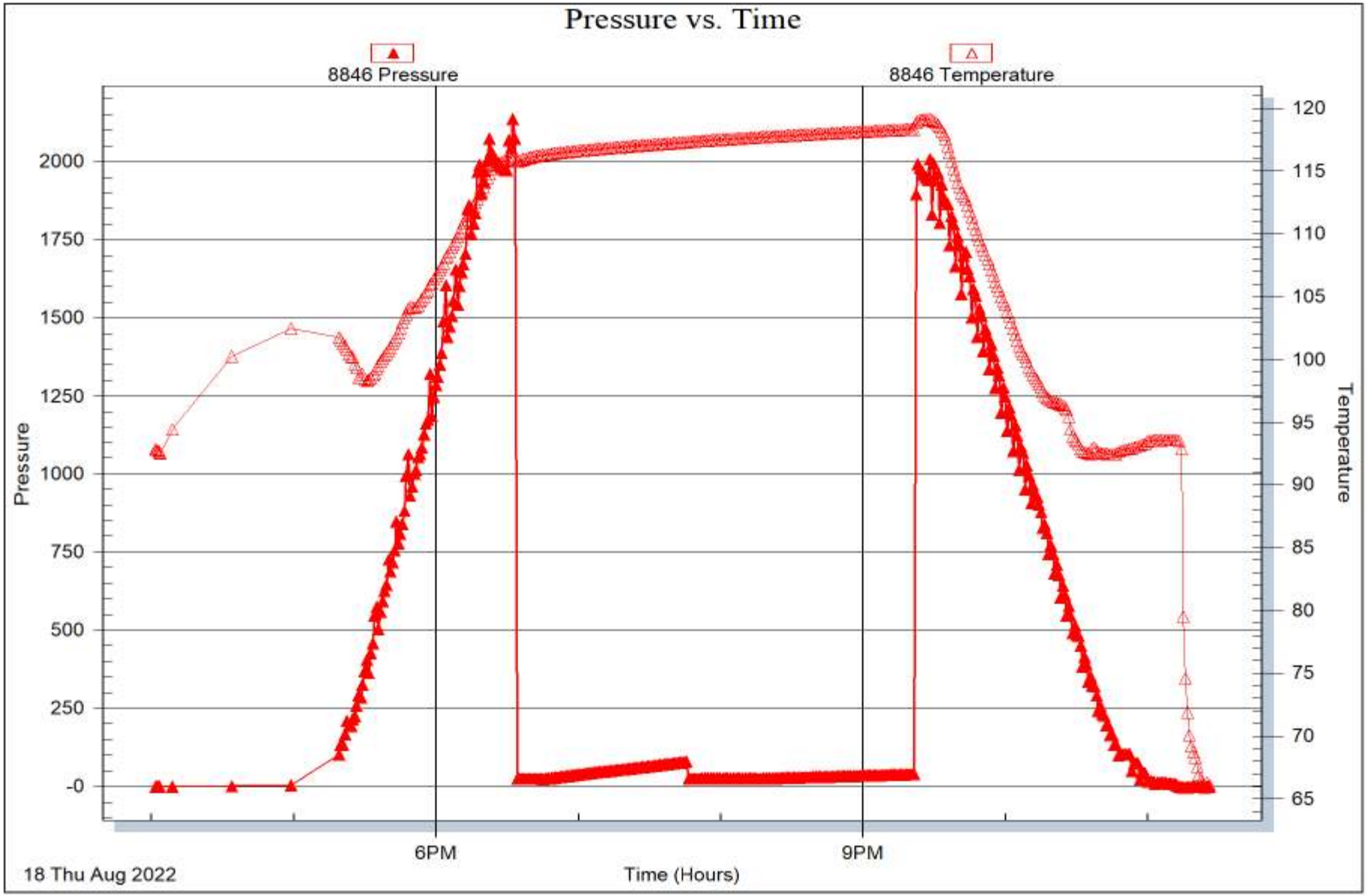
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8369 **Outside** Thomas Garner Inc. Tiger Unit #1 DST Test Number: 3



Serial #: 8846 **Outside** Thomas Garner Inc. Tiger Unit #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 69533 Printed: 2022.08.25 @ 08:39:31



DRILL STEM TEST REPORT

Prepared For: **Thomas Garner Inc.**

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

Tiger Unit #1

17-24S-13W Stafford,KS

Start Date: 2022.08.19 @ 08:08:07

End Date: 2022.08.19 @ 16:51:47

Job Ticket #: 69534 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.08.25 @ 08:36:24

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69534 **DST#: 4**

Test Start: 2022.08.19 @ 08:08:07

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:08:37
Time Test Ended: 16:51:47

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

Interval: 4052.00 ft (KB) To 4117.00 ft (KB) (TVD)
Total Depth: 4117.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

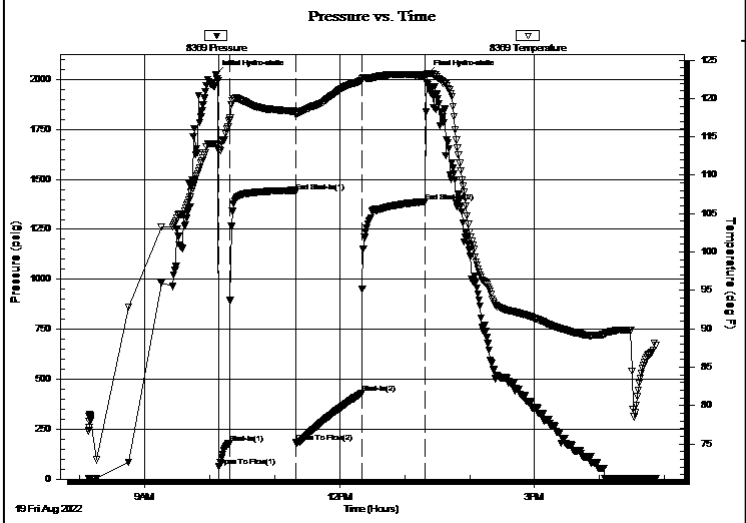
Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8369 **Outside**

Press@RunDepth: 430.70 psig @ 4068.00 ft (KB)
Start Date: 2022.08.19 End Date: 2022.08.19
Start Time: 08:08:08 End Time: 16:51:47

Capacity: 8000.00 psig
Last Calib.: 2022.08.19
Time On Btm: 2022.08.19 @ 10:05:47
Time Off Btm: 2022.08.19 @ 13:20:27

TEST COMMENT: IF:Strong Building Blow built 19.20" (10)
ISI:No Blow Back (60)
FF:Strong Building Blow built 121.09" (60)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.35	114.01	Initial Hydro-static
3	64.15	113.18	Open To Flow (1)
13	180.66	117.20	Shut-In(1)
74	1438.20	118.31	End Shut-In(1)
74	182.13	117.86	Open To Flow (2)
135	430.70	122.34	Shut-In(2)
194	1389.17	122.98	End Shut-In(2)
195	2025.80	123.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MCO 85%O 15%M	0.93
441.00	MCO 95%O 5%M	6.23
126.00	MCO 70%O 30%M	1.84
315.00	O 100%O	4.61
0.00	1134' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69534 **DST#: 4**

Test Start: 2022.08.19 @ 08:08:07

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:08:37
Time Test Ended: 16:51:47

Test Type: Conventional Bottom Hole (Reset)
Tester: Eric Burgess
Unit No: 80

Interval: 4052.00 ft (KB) To 4117.00 ft (KB) (TVD)
Total Depth: 4117.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

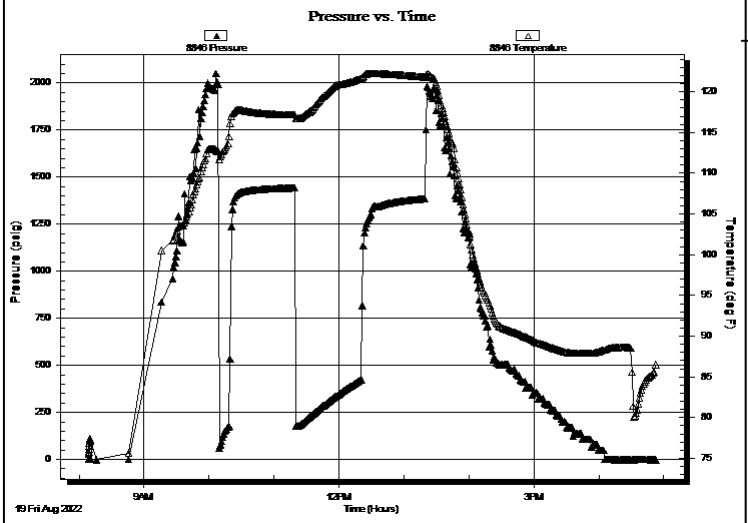
Reference Elevations: 1935.00 ft (KB)
1922.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8846 **Outside**

Press@RunDepth: psig @ 4068.00 ft (KB)
Start Date: 2022.08.19 End Date: 2022.08.19
Start Time: 08:08:47 End Time: 16:52:46

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Strong Building Blow built 19.20" (10)
ISI:No Blow Back (60)
FF:Strong Building Blow built 121.09" (60)
FSI:No Blow Back (60)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
189.00	MCO 85%O 15%M	0.93
441.00	MCO 95%O 5%M	6.23
126.00	MCO 70%O 30%M	1.84
315.00	O 100%O	4.61
0.00	1134' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69534 **DST#: 4**

Test Start: 2022.08.19 @ 08:08:07

Tool Information

Drill Pipe:	Length:	3824.00 ft	Diameter:	3.88	inches	Volume:	55.92	bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:		inches	Volume:	0.00	bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length:	212.00 ft	Diameter:	2.25	inches	Volume:	1.04	bbl	Weight to Pull Loose:	24000.00 lb
						Total Volume:	56.96	bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		15.00 ft							String Weight: Initial	66000.00 lb
Depth to Top Packer:		4052.00 ft							Final	72000.00 lb
Depth to Bottom Packer:		ft								
Interval betw een Packers:		65.00 ft								
Tool Length:		96.00 ft								
Number of Packers:		2	Diameter:	6.75	inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4022.00		
Shut In Tool	5.00			4027.00		
Hydraulic tool	5.00			4032.00		
Em Tool	3.00			4035.00		
Jars	5.00			4040.00		
Safety Joint	3.00			4043.00		
Packer	4.00			4047.00	31.00	Bottom Of Top Packer
Packer	5.00			4052.00		
Stubb	1.00			4053.00		
Perforations	14.00			4067.00		
Change Over Sub	1.00			4068.00		
Recorder	0.00	8369	Outside	4068.00		
Recorder	0.00	8846	Outside	4068.00		
Blank Spacing	31.00			4099.00		
Change Over Sub	1.00			4100.00		
Perforations	14.00			4114.00		
Bullnose	3.00			4117.00	65.00	Bottom Packers & Anchor
Total Tool Length:	**96.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner Inc.

20 NE 20th Ave.
St John, KS. 67576

ATTN: Keith Reavis

17-24S-13W Stafford,KS

Tiger Unit #1

Job Ticket: 69534 **DST#: 4**

Test Start: 2022.08.19 @ 08:08:07

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:	69.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5500.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

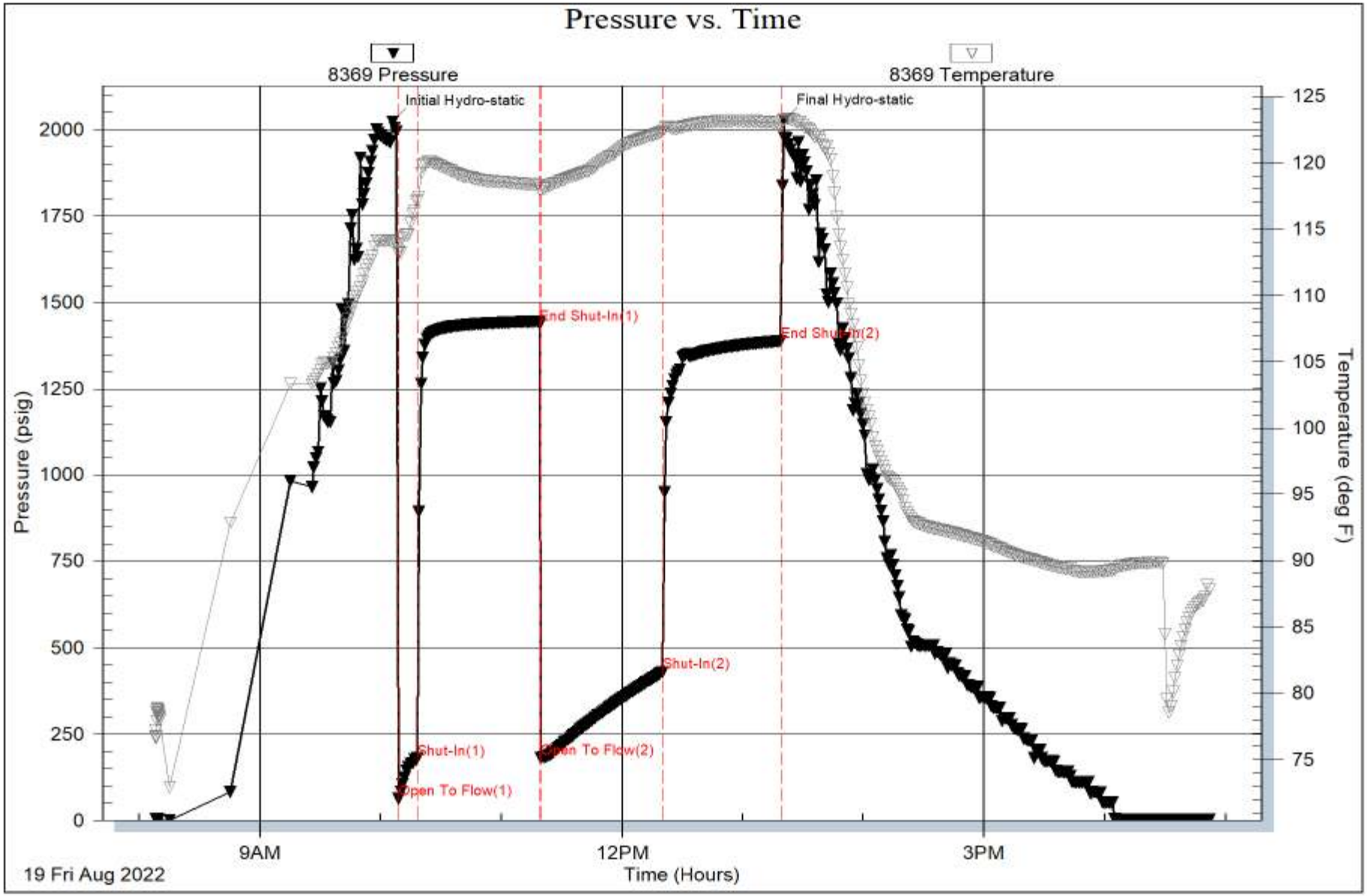
Recovery Table

Length ft	Description	Volume bbl
189.00	MCO 85%O 15%M	0.929
441.00	MCO 95%O 5%M	6.226
126.00	MCO 70%O 30%M	1.843
315.00	O 100%O	4.607
0.00	1134' GIP	0.000

Total Length: 1071.00 ft Total Volume: 13.605 bbl

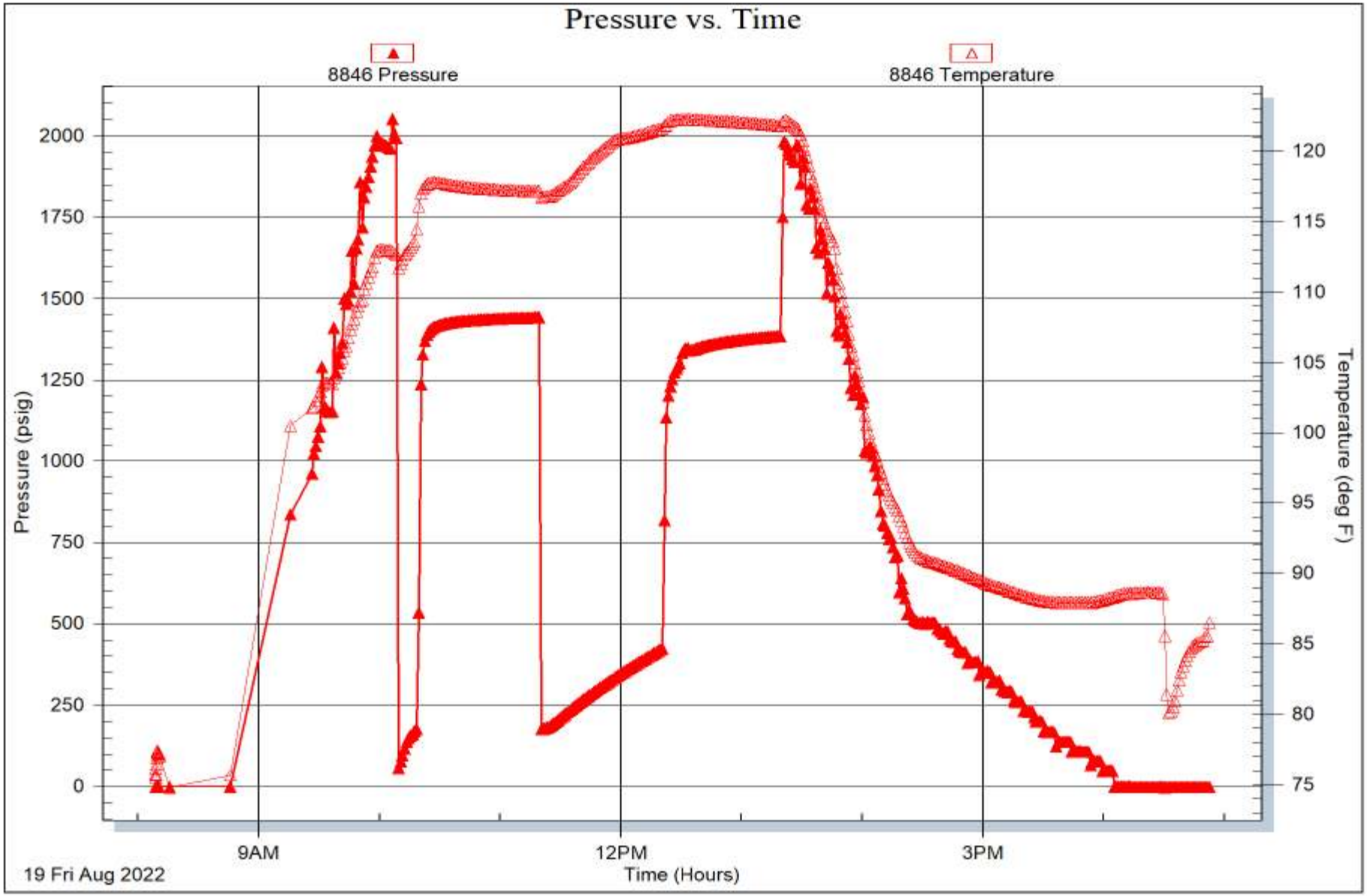
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8369 **Outside** Thomas Garner Inc. Tiger Unit #1 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 69534 Printed: 2022.08.25 @ 08:36:24

Serial #: 8846 **Outside** Thomas Garner Inc. Tiger Unit #1 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 69534 Printed: 2022.08.25 @ 08:36:25

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69531

Well Name & No. Tiger Unit #1 Test No. 1 Date 8/15/22

Company Thomas Garner Elevation 1935 KB 1922 GL

Address 20 NE 20th Ave Stjohn, KS. 67576

Co. Rep / Geo. Keith Reams Rig Sterling 5

Location: Sec. 17 Twp 24S Rge. 13W Co. Stafford State KS

Interval Tested 3760'-3788' Zone Tested Lansing K

Anchor Length 28' Drill Pipe Run 3544 Mud Wt. 9.3

Top Packer Depth 3752 Drill Collars Run 212 Vis 55

Bottom Packer Depth 3756 Wt. Pipe Run 0 WL 8.8

Total Depth 3788 Chlorides 4500 ppm System LCM 2

Blow Description IF: Strong Building Blow built 218.06" (10)

ISI: no Blow Back (45)

FF: Strong Building Blow built 210.20" (45)

FSF: .85" Blow Back (90)

Rec 0	Feet of 3150' GIP	100	%gas		%oil		%water		%mud
Rec 31	Feet of M		%gas		%oil	100	%water		%mud
Rec 126	Feet of GOWCM	15	%gas	10	%oil	10	%water	65	%mud
Rec 63	Feet of ~~GVSOMCW~~ GVSOMCW	5	%gas	5	%oil	65	%water	25	%mud
Rec 63	Feet of GVSOMCW	35	%gas	5	%oil	50	%water	10	%mud

Rec Total 283 BHT 121 Gravity ____ API RW 1.18 @ 64 °F Chlorides 6500 ppm

(A) Initial Hydrostatic	1834	☑ Test	1800	T-On Location	1650
(B) First Initial Flow	80	☑ Jars	300	T-Started	1808
(C) First Final Flow	81	☑ Safety Joint		T-Open	2042
(D) Initial Shut-In	557	☐ Circ Sub		T-Pulled	2355
(E) Second Initial Flow	64	☐ Hourly Standby		T-Out	0201
(F) Second Final Flow	123	☑ Mileage	40 60	Comments	
(G) Final Shut-In	526	☐ Sampler			
(H) Final Hydrostatic	1833	☐ Straddle		☑ EM Tool	-350
		☐ Shale Packer		☐ Ruined Shale Packer	
Initial Open	16	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	45	☐ Extra Recorder		☐ Extra Copies	
Final Flow	45	☐ Day Standby		Sub Total	-350
Final Shut-In	90	☐ Accessibility		Total	1810
		Sub Total	2160	MP/DST Disc't	

Approved By ____ Our Representative ____

Tribolite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

CamScanner

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 69532

Well Name & No. Tiger Unit #1 Test No. 2 Date 8/17/22

Company Thomas Garner Elevation 1935 KB 1922 GL

Address 20 NE 20th Ave St. John, KS. 67576

Co. Rep / Geo. Keith Reavis Rig Sterling 5

Location: Sec. 17 Twp 24S Rge. 13W Co. Stafford State KS

Interval Tested 3797 - 3825 Zone Tested Lansing L

Anchor Length 28 Drill Pipe Run 3571 Mud Wt. 9.2

Top Packer Depth 3789 Drill Collars Run 212 Vis 62

Bottom Packer Depth 3793 Wt. Pipe Run 0 WL 8.8

Total Depth 3825 Chlorides 5500 ppm System LCM 2

Blow Description IF: Weak Building Blow built .25" in Bucket (10)

FSI: no Blow Back (60)

FF: No Blow (15)

FSI: no Blow Back (10)

Rec 5	Feet of Mud	%gas	%oil	%water 100	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 5 BHT 112 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 1941	☑ Test 1800	T-On Location 0940	
(B) First Initial Flow 27	☑ Jars 300	T-Started 1020	
(C) First Final Flow 25	☑ Safety Joint	T-Open 1154	
(D) Initial Shut-In 61	☐ Circ Sub	T-Pulled 1329	
(E) Second Initial Flow 26	☐ Hourly Standby	T-Out 1532	
(F) Second Final Flow 27	☑ Mileage 40 60	Comments	
(G) Final Shut-In 29	☐ Sampler		
(H) Final Hydrostatic 1884	☐ Straddle	☑ EM Tool -350	
	☐ Shale Packer	☐ Ruined Shale Packer	
Initial Open 10	☐ Extra Packer	☐ Ruined Packer	
Initial Shut-In 60	☐ Extra Recorder	☐ Extra Copies	
Final Flow 15	☐ Day Standby	Sub Total -350	
Final Shut-In 10	☐ Accessibility	Total 1810	
	Sub Total 2160	MP/DST Disc't	

Approved By ____ Our Representative ____

Trilobite Testing Inc. shall not be liable for damages of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

CamScanner

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69533

Well Name & No. Tiger Unit #1 Test No. 3 Date 8/18/22

Company Thomas Garner Elevation 1935 KB 1922 GL

Address 20 NE 20th Ave St John, KS 67576

Co. Rep / Geo. Keath Lewis Rig Sterling 5

Location: Sec. 17 Twp 24S Rge. 13W Co. Stafford State KS

Interval Tested 4054 - 4100 Zone Tested Simpson Sand

Anchor Length 46 Drill Pipe Run 3527 Mud Wt. 9.2

Top Packer Depth 4046 Drill Collars Run 212 Vis 52

Bottom Packer Depth 4050 Wt. Pipe Run 0 WL 9.8

Total Depth 4100 Chlorides 6000 ppm System LCM 2

Blow Description IF: Weak building Blow that died (10)

ISI: no Blow Back (60)

FF: no Blow (30)

FSI: no Blow Back (60)

Rec 5	Feet of Mud	%gas	%oil	%water	100	%mud
Rec	Feet of	%gas	%oil	%water		%mud
Rec	Feet of	%gas	%oil	%water		%mud
Rec	Feet of	%gas	%oil	%water		%mud
Rec	Feet of	%gas	%oil	%water		%mud

Rec Total 5 BHT 120 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2120	☑ Test 1950	T-On Location 1450	
(B) First Initial Flow 31	☑ Jars 300	T-Started 1601	
(C) First Final Flow 28	☑ Safety Joint	T-Open 1837	
(D) Initial Shut-In 84	☐ Circ Sub	T-Pulled 2122	
(E) Second Initial Flow 77	☐ Hourly Standby	T-Out 2326	
(F) Second Final Flow 29	☑ Mileage 40 60	Comments	
(G) Final Shut-In 40	☐ Sampler		
(H) Final Hydrostatic 1998	☐ Straddle	☑ EM Tool	
	☐ Shale Packer	☐ Ruined Shale Packer	
Initial Open 10	☐ Extra Packer	☐ Ruined Packer	
Initial Shut-In 60	☐ Extra Recorder	☐ Extra Copies	
Final Flow 30	☐ Day Standby	Sub Total 0	
Final Shut-In 60	☐ Accessibility	Total 2310	
	Sub Total 2310	MP/DST Disc't	

Approved By ____ Our Representative ____

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

CamScanner

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69534

Well Name & No. Tyler Unit #1 Test No. 4 Date 8/19/22

Company Thomas Corner Elevation 1935 KB 1922 GL

Address 20 NE 20th Ave St John, KS. 67576

Co. Rep / Geo. Kevin Reavis Rig Sterling 5

Location: Sec. 17 Twp 24S Rge. 13W Co. Stafford State Ks

Interval Tested 4052 - 4117 Zone Tested Arbuckle

Anchor Length 45' Drill Pipe Run 3824 Mud Wt. 9.3

Top Packer Depth 4044 Drill Collars Run 212 Vis 69

Bottom Packer Depth 4048 Wt. Pipe Run Ø WL 8.8

Total Depth 4117 Chlorides 5500 ppm System LCM 2.5

Blow Description IF: Strong Building Blow built 19.20" (10)

ISI: No Blow Back (60)

FF: Strong Building Blow built 121.04" (60)

FSI: No Blow Back (60)

Rec 0	Feet of 1134' GIP	100 %gas	%oil	%water	%mud	
Rec 315	Feet of oil	%gas	100 %oil	%water	%mud	
Rec 126	Feet of MCO	%gas	70 %oil	%water 30	%mud	
Rec 441	Feet of MCO	%gas	95 %oil	%water 5	%mud	
Rec 189	Feet of MCO	%gas	85 %oil	%water 15	%mud	

Rec Total 1071 BHT 123 Gravity 32@60° API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2023	☑ Test 1950	T-On Location 0715	
(B) First Initial Flow 64	☑ Jars 300	T-Started 0808	
(C) First Final Flow 181	☑ Safety Joint	T-Open 1013	
(D) Initial Shut-In 1438	☐ Circ Sub	T-Pulled 1327	
(E) Second Initial Flow 182	☐ Hourly Standby	T-Out 1651	
(F) Second Final Flow 430	☑ Mileage 40 60	Comments	
(G) Final Shut-In 1389	☐ Sampler		
(H) Final Hydrostatic 2026	☐ Straddle	☑ EM Tool	
	☐ Shale Packer	☐ Ruined Shale Packer	
Initial Open 10	☐ Extra Packer	☐ Ruined Packer	
Initial Shut-In 60	☐ Extra Recorder	☐ Extra Copies	
Final Flow 60	☐ Day Standby	Sub Total 0	
Final Shut-In 60	☐ Accessibility	Total 2310	
	Sub Total 2310	MP/DST Disc't	

Our Representative [illegible]

Approved By ____

Trilobite Testing Inc. shall not be liable for damages of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

CamScanner

HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

THOMAS GARNER INC
20 NE 20TH AVE
SAINT JOHN, KS 67576

Invoice Date:	8/12/2022
Invoice #:	0362572
Lease Name:	Tiger Unit
Well #:	1 (New)
County:	Stafford, Ks
Job Number:	WP3210
District:	Pratt

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Cement Pozmix 60/40	400.000	14.400	5,760.00
Calcium Chloride	1,032.000	0.720	743.04
Cello Flake	100.000	1.680	168.00
8 5/8" Top rubber plug	1.000	168.000	168.00
Light Eq Mileage	25.000	2.000	50.00
Heavy Eq Mileage	100.000	4.000	400.00
Ton Mileage	430.000	1.500	645.00
Cement Blending & Mixing	400.000	1.344	537.60
Depth Charge 0'-500'	1.000	960.000	960.00
Cement Data Acquisition	1.000	240.000	240.00
Cement Plug Container	1.000	240.000	240.00
Service Supervisor	1.000	275.000	275.00

Total 10,186.64

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.
SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	Tom Garner	Lease & Well #	Tiger Unit 1			Date	8/12/2022
Service District	Pratt Kansas	County & State	Stafford.Kansas	Legals S/T/R	17-24s-13w	Job #	
Job Type	Surface	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	wp 3210

Equipment #	Driver
916	M Brungardt
179/522	K Iesely
182/534	B Strickland

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☐ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☐ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
cp070	60/40/2 Pozmix	sack	400.00			$5,760.00
cp100	Calcium Chloride	lb	1,032.00			$743.04
cp120	Cello-flake	lb	100.00			$168.00
fe285	8 5/8" Rubber Plug	ea	1.00			$168.00
m015	Light Equipment Mileage	mi	25.00			$50.00
m010	Heavy Equipment Mileage	mi	100.00			$400.00
m020	Ton Mileage	tm	430.00			$645.00
c060	Cement Blending & Mixing Service	sack	400.00			$537.60
d010	Depth Charge: 0'-500'	job	1.00			$960.00
c035	Cement Data Acquisition	job	1.00			$240.00
c050	Cement Plug Container	job	1.00			$240.00
r061	Service Supervisor	day	1.00			$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

			Net:	$10,186.64
Total Taxable	$ -	Tax Rate:		
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.			Sale Tax:	$ -
			Total:	$ 10,186.64

HSI Representative: *Mark Brungardt*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results fom the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well informaiton in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**

ftv: 15-2021/01/25
mplv: 311-2022/08/09

CEMENT TREATMENT REPORT

Customer:	Tom Garner	Well:	Tiger Unit 1	Ticket:	wp 3210
City, State:	St John Kansas	County:	Stafford.Kansas	Date:	8/12/2022
Field Rep:	Tom Garner	S-T-R:	17-24s-13w	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	401 ft
Casing Size:	8 5/8 in
Casing Depth:	396 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	24.0 bbls

Calculated Slurry - Lead	
Blend:	60/40 2&3
Weight:	14.8 ppg
Water / Sx:	5.1 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	86.2 bbls
Total Sacks:	400 sx

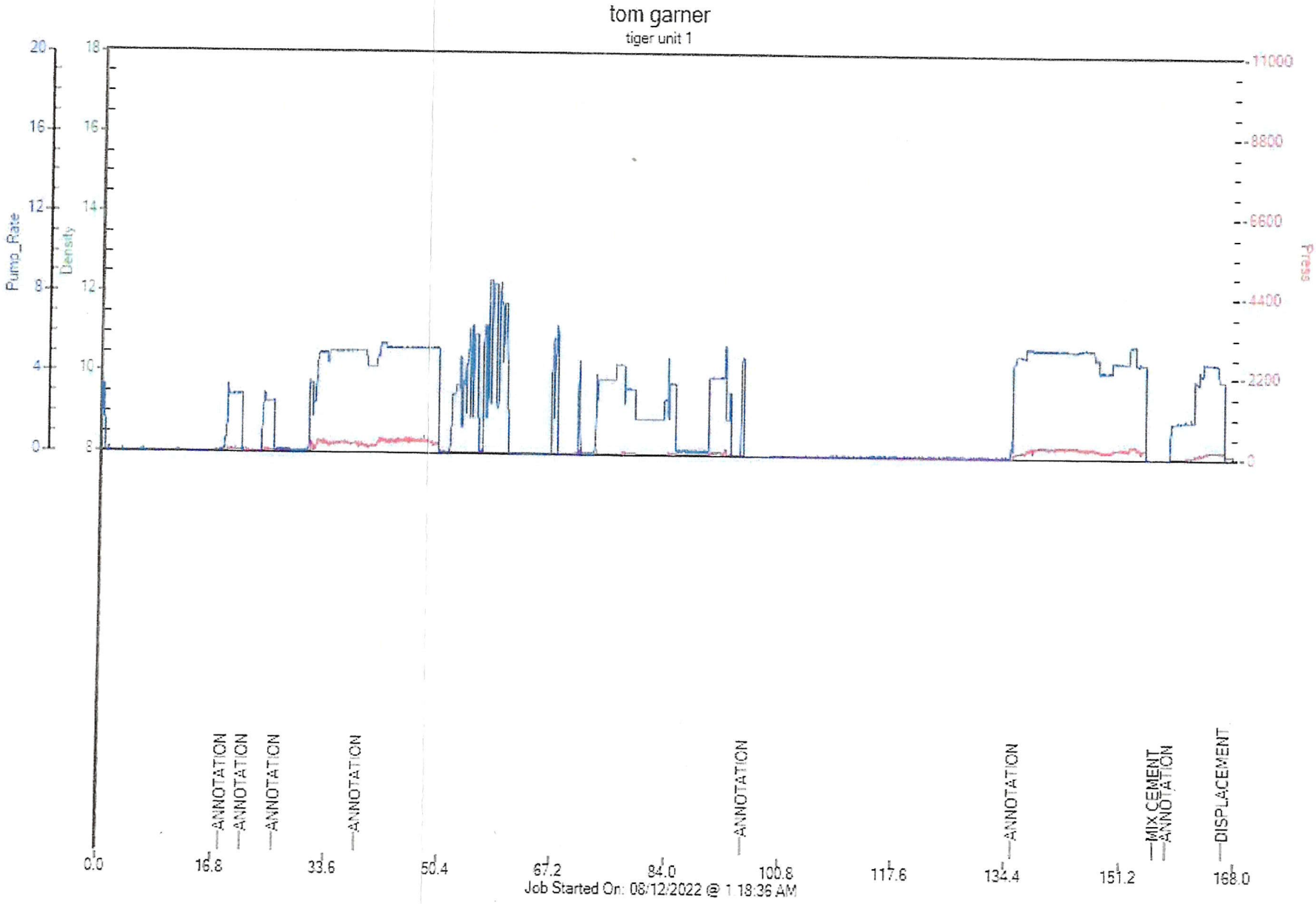
Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
4:30 PM			-	-	on location job and safety
4:35 PM				-	spot trucks and rig up
				-	
				-	start casing in the hole
5:40 PM				-	casing on bottom and circulate
				-	
5:50 PM				-	start cement
	5.0	200.0	5.0	5.0	fresh water
	5.5	300.0	86.0	91.0	mix 400 sacks cement
6:10 PM				91.0	cement in and shut down
					release plug
6:13 PM					start displacement
	2.0	300.0	24.0		pump 24 bbls water
6:30 PM					plug down
					circulated 5 bbls to the pit

	CREW	UNIT
Cementer:	M Brungardt	916
Pump Operator:	K lesely	179/522
Bulk #1:	B Strickland	182/534
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.2 bpm	267 psi	115 bbls

ftv: 15-2021/01/25
mplv: 311-2022/08/09


tom garner
tiger unit 1
Pump_Rate
Density
Press
20
16
12
8
4
0
18
16
14
12
10
8
11000
8800
6600
4400
2200
0
ANNOTATION
ANNOTATION
ANNOTATION
ANNOTATION
ANNOTATION
ANNOTATION
MIX CEMENT
ANNOTATION
DISPLACEMENT
0.0
16.8
33.6
50.4
67.2
84.0
100.8
117.6
134.4
151.2
168.0
Job Started On: 08/12/2022 @ 1 18:36 AM

HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

THOMAS GARNER INC
20 NE 20TH AVE
SAINT JOHN, KS 67576

Invoice Date:	8/20/2022
Invoice #:	0362743
Lease Name:	Tiger Unit
Well #:	1 (New)
County:	Stafford, Ks
Job Number:	WP3252
District:	Pratt

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-H Long	190.000	45.000	8,550.00
H-Plug	50.000	14.000	700.00
Type A Packer shoe 51/2"	1.000	1,570.000	1,570.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Cement baskets 5 1/2"	2.000	300.000	600.00
5 1/2" Turbolizers	8.000	125.000	1,000.00
Mud flush	1,000.000	1.000	1,000.00
Light Eq Mileage	25.000	2.000	50.00
Heavy Eq Mileage	50.000	4.000	200.00
Ton Mileage	276.000	1.500	414.00
Cement Blending & Mixing	240.000	1.400	336.00
Depth Charge 4001'-5000'	1.000	2,500.000	2,500.00
Cement Data Acquisition	1.000	250.000	250.00
Cement Plug Container	1.000	250.000	250.00
Service Supervisor	1.000	275.000	275.00

Total 18,045.00

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.
SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	TOM GARNER	Lease & Well #	TIGER UNIT 1			Date	8/20/2022
Service District	PRATT	County & State	STAFFORD KS	Legals S/T/R	17-24S-13W	Job #	
Job Type	LONGSTRING	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	WP3252

Equipment #	Driver
912	MATTAL
176/522	LESLEY
182/534	TREVINO

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☐ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☐ Overhead Hazards	☐ Muster Point/Medical Locations
☐ Hearing Protection	☐ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
CP032	HH-Long	sack	190.00			$8,550.00
CP055	H-Plug	sack	50.00			$700.00
FE175	5 1/2" Type A Packer Shoe	ea	1.00			$1,570.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00			$350.00
FE130	5 1/2" Cement Basket	ea	2.00			$600.00
FE135	5 1/2 Turbolizer	ea	6.00			$1,000.00
CP170	Mud Flush	gal	1,000.00			$1,000.00
M015	Light Equipment Mileage	mi	25.00			$50.00
M010	Heavy Equipment Mileage	mi	50.00			$200.00
M020	Ton Mileage	tm	276.00			$414.00
C060	Cement Blending & Mixing Service	sack	240.00			$336.00
D015	Depth Charge: 4001'-5000'	job	1.00			$2,500.00
C035	Cement Data Acquisition	job	1.00			$250.00
C050	Cement Plug Container	job	1.00			$250.00
R061	Service Supervisor	day	1.00			$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

				Net:	$18,045.00
Total Taxable	$ -	Tax Rate:			
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.			Sale Tax:	$ -	
			Total:	$ 18,045.00	

HSI Representative: *Mike Mattal*

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X_____ **CUSTOMER AUTHORIZATION SIGNATURE**

ftv: 7-2020/11/30
mplv: 321-2022/08/18

CEMENT TREATMENT REPORT

Customer:	TOM GARNER	Well:	TIGER UNIT 1	Ticket:	WP3252
City, State:	ST. JOHN KS	County:	STAFFORD KS	Date:	8/20/2022
Field Rep:	KYLE ROBY	S-T-R:	17-24S-13W	Service:	LONGSTRING

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4117 ft
Casing Size:	5 1/2 in
Casing Depth:	4109 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	4109
Tool Depth:	ft
Displacement:	96.9 bbls

Calculated Slurry - Lead	
Blend:	HH-LONG
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	48.0 bbls
Total Sacks:	190 sx

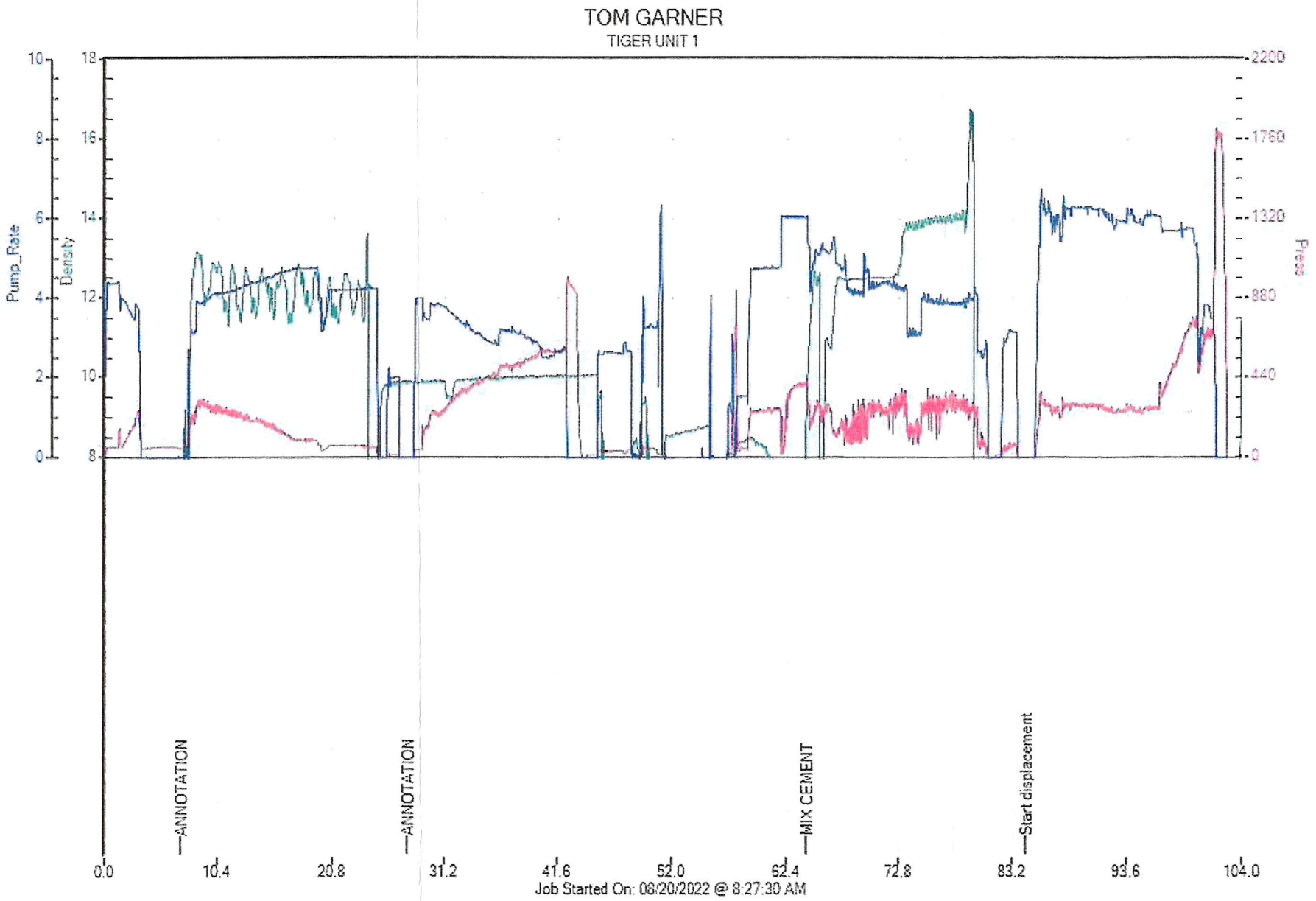
Calculated Slurry - Tail	
Blend:	H-PLUG
Weight:	13.78 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	12.0 bbls
Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
6:45 AM			-	-	ON LOCATION
8:30 AM				-	RUN 5 1/2 15.5# CASING TURBOS ON 1,2,3,4,5,7,8,9 BASKETS ON 1,9 SHOE JOINT 42.70'
10:35 AM				-	CASING ON BOTTOM
10:40 AM				-	HOOK TO CASING
10:45 AM				-	BREAK CIRCULATION WITH RIG
12:53 PM		900.0		-	SET PACKER SHOE
12:53 PM	5.0	350.0	24.0	24.0	PUMP 24 BBL MUD FLUSH
12:57 PM	5.0	350.0	5.0	29.0	PUMP 5 BBL WATER
12:59 PM	4.0	190.0	48.0	77.0	MIX 190 SKS HH-LONG
1:17 PM	4.0	25.0	4.0	81.0	WASH PUMP AND LINES, DROP PLUG
1:20 PM	6.5	290.0		81.0	START DISPLACEMENT
1:31 PM	6.0	350.0	69.0	150.0	LIFT PRESSURE
1:35 PM	3.5	400.0	86.0	236.0	SLOW RATE
1:37 PM		1,700.0	96.2	332.2	PLUG DOWN, RELEASED AND HELD
1:45 PM	2.0	25.0	7.0	339.2	MIX 30 SKS H-PLUG FOR RAT HOLE
1:50 PM	2.0	25.0	5.0	344.2	MIX 20 SKS H-PLUG FOR MOUSE HOLE
				-	
				-	
				-	
				-	
				-	
				-	JOB COMPLETE, THANK YOU!
				-	MIKE MATTAL
				-	KEVEN & JOSE
				-	
				-	

	CREW	UNIT
Cementer:	MATTAL	912
Pump Operator:	LESLEY	176/522
Bulk #1:	TREVINO	182/534
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.2 bpm	419 psi	344 bbls

ftv: 7-2020/11/30
mplv: 321-2022/08/18


TOM GARNER
TIGER UNIT 1
Pump_Rate
Density
Press
10
8
6
4
2
0
18
16
14
12
10
8
2200
1760
1320
880
440
0
—ANNOTATION
—ANNOTATION
—MIX CEMENT
—Start displacement
0.0
10.4
20.8
31.2
41.6
52.0
62.4
72.8
83.2
93.6
104.0
Job Started On: 08/20/2022 @ 8:27:30 AM

Custom Service, LLC

766 NW 30th St.
St. John, KS 67576

Invoice

Date	Invoice #
8/20/2022	3292

Bill To
Thomas Garner Inc. 20 NE 20th Ave St. John, KS 67576

Tiger Unit

P.O. No.	Terms	Project
~~BLISS~~	Due on receipt	

Item	Quantity	Description	Rate	Amount
Water Truck	2	08/18/2022: 80 BBLS FROM RESERVE PIT TO SWD	97.00	194.00
Disposal Fee	80	80 BBLS TO SWD	0.35	28.00

Thank you for your business. For any questions and concerns please contact Aric at (620)546-4205

Total $222.00