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 # 6569
Name: Carmen Schmitt, Inc.
Address 1: PO BOX 47
Address 2:
City: GREAT BEND State: KS Zip: 67530 + 0047
Contact Person: Matt Suchy
Phone: (620) 793-5100
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Brad Rine
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 #:

7/12/2022	7/21/2022	7/21/2022
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-193-21104-00-00
Spot Description:
NE - SW - NW - SW Sec. 17 Twp. 6 S. R. 31 ☐ East ☑ West
1800 Feet from ☐ North / ☑ South Line of Section
600 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: Thomas
Lease Name: HIGERD Well #: 1-17
Field Name:
Producing Formation: NA
Elevation: Ground: 2993 Kelly Bushing: 2998
Total Vertical Depth: 4610 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 262 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: 5000 ppm Fluid volume: 750 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

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: 08/03/2022
☐ **Confidential Release Date:** 08/02/2024
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 08/04/2022

Page Two

Operator Name: Carmen Schmitt, Inc. Lease Name: HIGERD Well #: 1-17

Sec. 17 Twp. 6 S. R. 31 ☐ East ☑ West County: Thomas

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 ☑ Yes ☐ No
(Attach Additional Sheets)

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:

Dual Induction
Porosity
Micro

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

Name	Top	Datum
Attached	Attached	Attached

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	262	60/40	225	3%cc,2%gel

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:			Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

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)*		

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:		

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

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	HIGERD 1-17
Doc ID	1657595

Tops

Name	Top	Datum
Anhydrite	2662	336
Howard	3722	-724
Topeka	3774	-776
Heebner	3950	-952
Toronto	3981	-983
Lansing	3997	-999
B/KC	4237	-1239
Marmaton	4250	-1252
Pawnee	4317	-1319
Fort Scott	4385	-1387
Cherokee Sh	4409	-1411
Mississippi	4551	-1553

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	HIGERD 1-17
Doc ID	1657595

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	262	60/40	225	3%cc,2%gel

COPELAND
Acid & Cement

POST OFFICE BOX 438
HAYSVILLE, KS 67060
(316) 524-1225
(316) 524-1027 FAX

BURRTON, KS (620) 463-5161 FAX (620) 463-2104
GREAT BEND, KS (620) 793-3366 FAX (620) 793-3536

Invoice

INVOICE NUMBER:
C60611-IN

BILL TO:
CARMEN SCHMITT, INC.
PO BOX 47
GREAT BEND, KS 67530

LEASE: HIGERD 1-17

DATE	ORDER	SALESMAN	ORDER DATE	PURCHASE ORDER	SPECIAL INSTRUCTIONS
07/18/2022	60611		07/12/2022	HIGERD 1-17	NET 30

QUANTITY	U/M	ITEM NO./DESCRIPTION	D/C	PRICE	EXTENSION
		NEW WELL			
100.00	MI	MILEAGE CEMENT PUMP TRUCK	0.00	6.00	600.00
1.00	EA	PUMP CHARGE SURFACE	0.00	1,150.00	1,150.00
225.00	SK	60/40 POZ MIX 2% GEL	0.00	13.25	2,981.25
13.00	SK	CALCIUM CHLORIDE	0.00	42.00	546.00
238.00	EA	BULK CHARGE	0.00	1.25	297.50
523.60	MI	BULK TRUCK - TON MILES	0.00	1.10	575.96

7/10/43
20074.0117
BCP Well Site
Surface Cement

REMIT TO:
P.O. BOX 438
HAYSVILLE, KS 67060

RECEIVED BY

COP

FUEL SURCHARGE IS NOT TAXABLE AND IS ADDED TO MILEAGE, PUMP AND OR DELIVERY CHARGES ONLY.

NET 30 DAYS

THOMCO

Net Invoice:	6,150.71
Sales Tax:	291.00
Invoice Total:	**6,441.71**

There will be a charge of 1.5% "per month" (18% annual rate) on all accounts over 30 days pas

Copeland Acid & Cement is a subsidiary of Gressel Oil Field Service

NEW WELL

COPELAND Acid & Cement

BOX 438 - HAYSVILLE, KANSAS 67060
316-524-1225

FIELD ORDER Nº C 60611

DATE 12-Jul 20 22

IS AUTHORIZED BY: CARMEN SCHMITT INC
(NAME OF CUSTOMER)

Address _____ City _____ State KS

TO TREAT WELL
AS FOLLOWS Lease HIGERD Well No. 1-17 Customer Order No. _____

Sec. Twp.
Range 17-6S-31W County THOMAS State KS

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED
BEFORE WORK IS COMMENCED _____ By _____
Well Owner or Operator Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
20.0002	100	Mileage P.T.	$6.00	$600.00
20.0005	1	Pump Charge Surface	$1,150.00	$1,150.00
20.1002	225	60/40 Poz 2% Gel	$13.25	$2,981.25
20.1012	13	Calcium Chloride per 50 lb.	$42.00	$546.00
20.0011	238	Bulk Charge	$1.25	$297.50
20.0012	523.6	Bulk Truck Miles	$1.10	$575.96
		Process License Fee on Gallons		
		TOTAL BILLING		$6,150.71

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner,operator or his agent, whose signature appears below.

Copeland Representative GREG C.

Station GB MATT SUCHY
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS

COPELAND Acid & Cement

TREATMENT REPORT

Acid Stage No. _____

Date 7/12/2022 District GB F.O. No. C60611

Company CARMEN SCHMITT INC

Well Name & No. HIGERD 1-17

Location 17-6S-31W Field _____

County THOMAS State KS

Casing: Size 8 5/8 Type & Wt. _____ Set at _____ ft.

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Liner: Size _____ Type & Wt _____ Top at _____ ft. Bottom at _____ ft.

Cemented: Yes Perforated from _____ ft. to _____ ft.

Tubing: Size & Wt. _____ Swung at _____ ft.

Perforated from _____ ft. to _____ ft.

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Type Treatment:	Amt.		Type Fluid	Sand Size	Pounds of Sand
Bkdown		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
Flush		Bbl./Gal.			

Treated from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Pump Trucks. No. Used: Std. 320 Sp. _____ Twin _____

Auxiliary Equipment 327

Personnel GREG JOE

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____

_____ Gals. _____ lb.

Company Representative MATT SUCHY Treater GREG C.

TIME a.m./p.m.	PRESSURES Tubing	PRESSURES Casing	Total Fluid Pumped	REMARKS
11:00				ON LOCATION
				RUN 262' OF SURFACE PIPE
				PUMP 225 SKS 60/40 2% GEL 3% CC
				DISPLACE WITH 14.5 BBLS H2O
				CEMENT CIRCULATED TO SURFACE
12:45				JOB COMPLETE
				THANK YOU!!!

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Higerd #1-17

17-6s-31w Thomas KS

Start Date: 2022.07.16 @ 06:45:00

End Date: 2022.07.16 @ 11:57:32

Job Ticket #: 69071 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.22 @ 13:45:23

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69071 **DST#: 1**

Test Start: 2022.07.16 @ 06:45:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:00:27
Time Test Ended: 11:57:32

Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer J Staab
Unit No: 84

Interval: 3939.00 ft (KB) To 4011.00 ft (KB) (TVD)
Total Depth: 4011.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

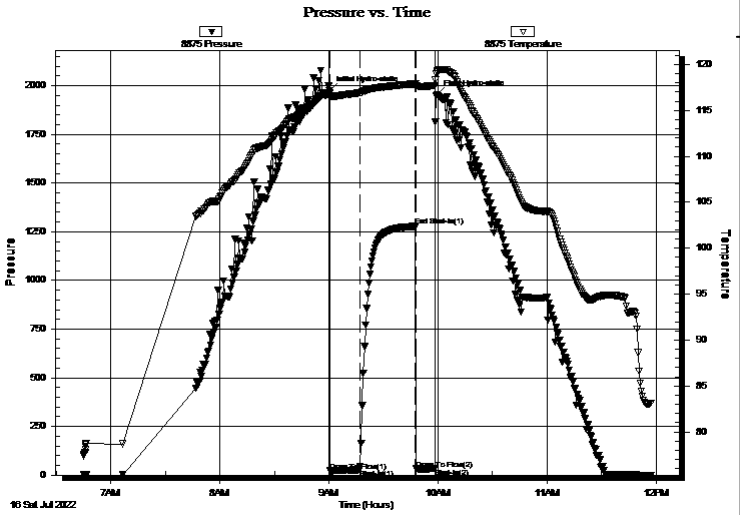
Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875 **Inside**

Press@RunDepth: 28.06 psig @ 3942.00 ft (KB)
Start Date: 2022.07.16 End Date: 2022.07.16
Start Time: 06:45:01 End Time: 11:57:32

Capacity: psig
Last Calib.: 2022.07.16
Time On Btm: 2022.07.16 @ 09:00:17
Time Off Btm: 2022.07.16 @ 09:59:27

TEST COMMENT:
15-IF-Surface Blow
30-ISI-No Return
10-FF-No Blow
Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.53	116.89	Initial Hydro-static
1	21.73	116.38	Open To Flow (1)
17	28.06	116.91	Shut-In(1)
48	1278.10	117.88	End Shut-In(1)
48	31.90	117.45	Open To Flow (2)
59	34.50	117.73	Shut-In(2)
60	1954.41	119.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100%M	0.10

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69071 **DST#: 1**

Test Start: 2022.07.16 @ 06:45:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:00:27
Time Test Ended: 11:57:32

Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer J Staab
Unit No: 84

Interval: 3939.00 ft (KB) To 4011.00 ft (KB) (TVD)
Total Depth: 4011.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

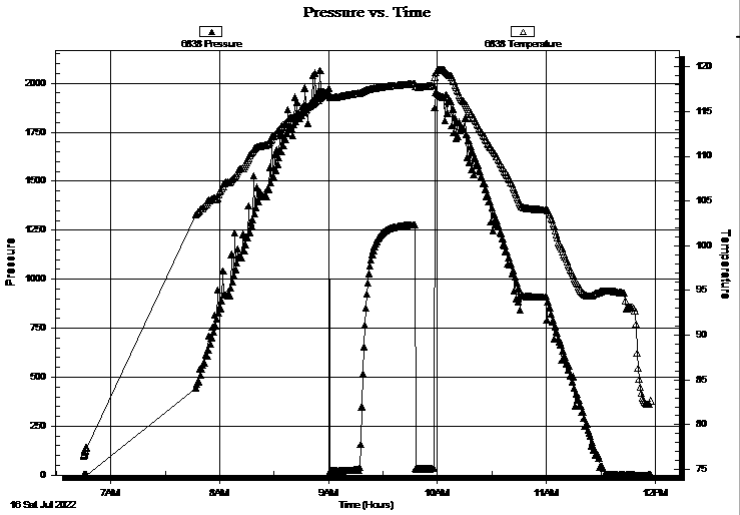
Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6838 **Inside**

Press@RunDepth: psig @ 3942.00 ft (KB)
Start Date: 2022.07.16 End Date: 2022.07.16
Start Time: 06:45:01 End Time: 11:57:32

Capacity: psig
Last Calib.: 2022.07.16
Time On Btm:
Time Off Btm:

TEST COMMENT:
15-IF-Surface Blow
30-ISI-No Return
10-FF-No Blow
Pulled Tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 100%M	0.10

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69071 **DST#: 1**

Test Start: 2022.07.16 @ 06:45:00

Tool Information

Drill Pipe:	Length:	3749.00 ft	Diameter:	3.82	inches	Volume:	53.14	bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75	inches	Volume:	-	bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length:	182.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	Weight to Pull Loose:	62000.00 daN
						Total Volume:	-	bbl	Tool Chased	ft
Drill Pipe Above KB:		24.00 ft							String Weight: Initial	58000.00 daN
Depth to Top Packer:		3939.00 ft							Final	58000.00 daN
Depth to Bottom Packer:		ft								
Interval between Packers:		72.00 ft								
Tool Length:		104.00 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			3908.00		
Shut In Tool	5.00			3913.00		
Hydraulic tool	5.00			3918.00		
Jars	5.00			3923.00		
Gap Sub	4.00			3927.00		
Safety Joint	3.00			3930.00		
Packer	5.00			3935.00	32.00	Bottom Of Top Packer
Packer	4.00			3939.00		
Stubb	1.00			3940.00		
Perforations	1.00			3941.00		
Change Over Sub	1.00			3942.00		
Recorder	0.00	6838	Inside	3942.00		
Recorder	0.00	8875	Inside	3942.00		
Drill Pipe	63.00			4005.00		
Change Over Sub	1.00			4006.00		
Perforations	2.00			4008.00		
Bullnose	3.00			4011.00	72.00	Bottom Packers & Anchor
Total Tool Length:	**104.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69071 **DST#: 1**

Test Start: 2022.07.16 @ 06:45:00

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

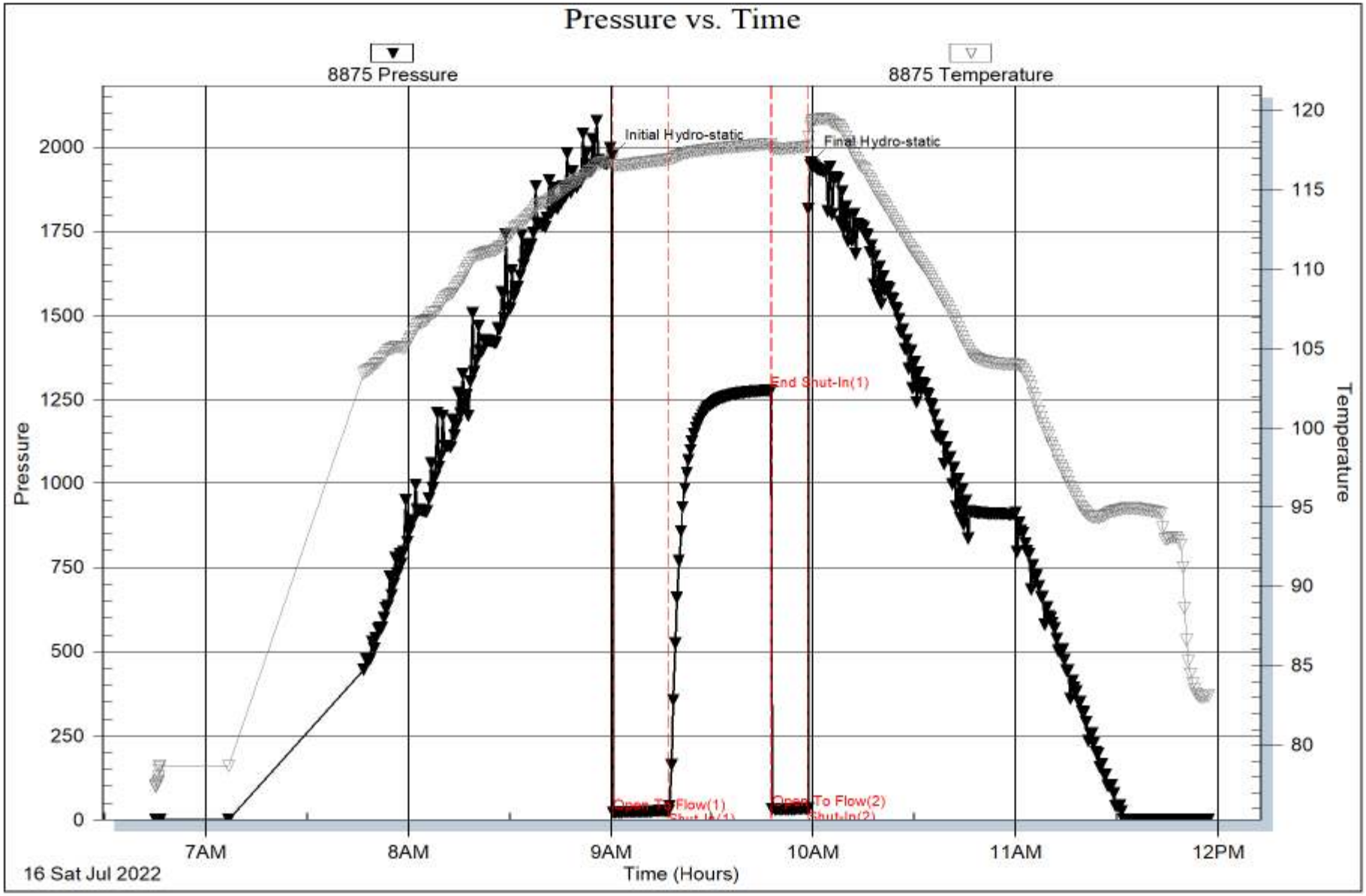
Length ft	Description	Volume bbl
20.00	OSM 100%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

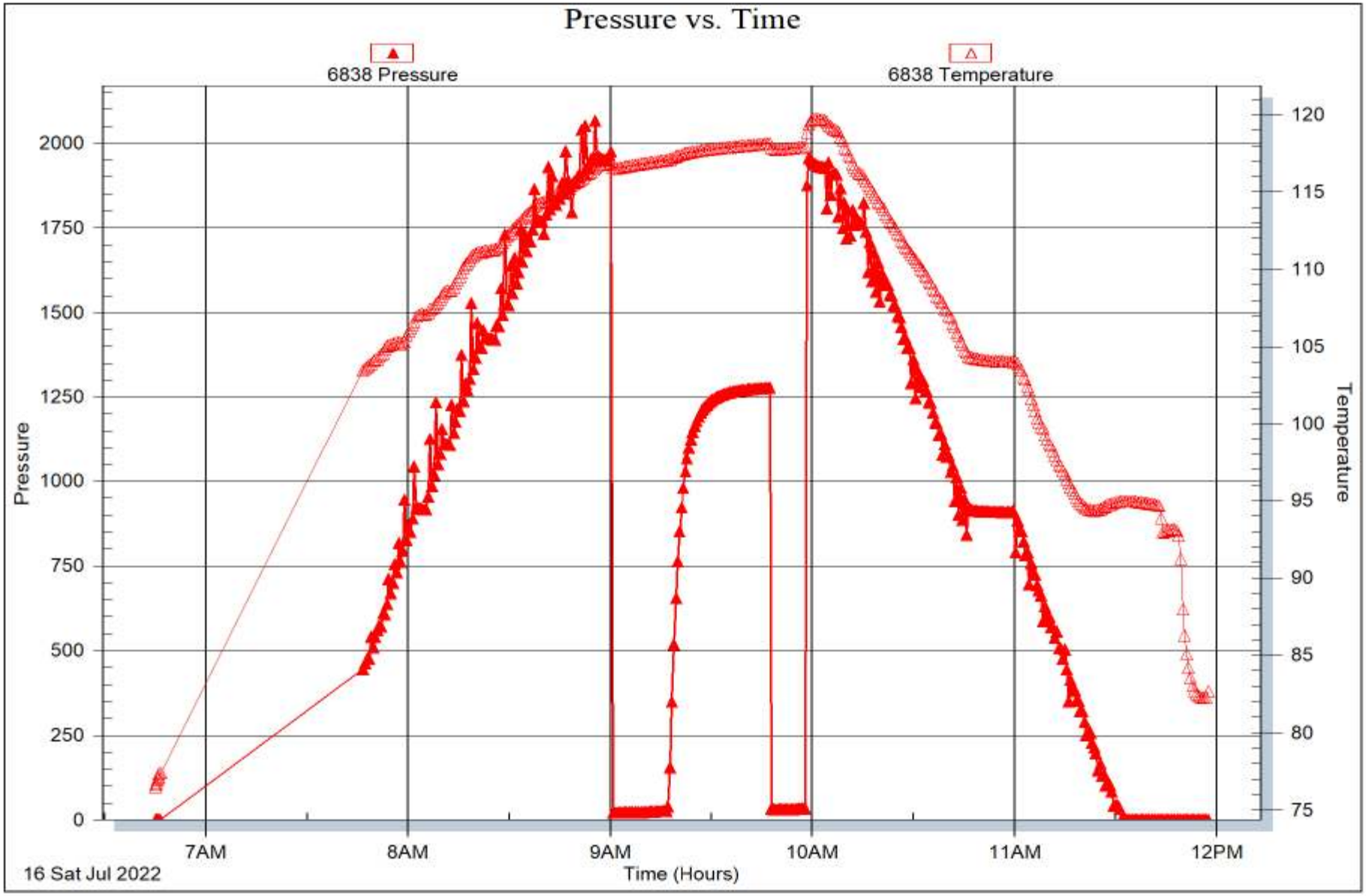
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 4#LCM


Pressure vs. Time
8875 Pressure
8875 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
7AM
8AM
9AM
10AM
11AM
12PM
16 Sat Jul 2022
Time (Hours)

Serial #: 6838 **Inside** Carmen Schmitt Inc Higerd #1-17 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69071 Printed: 2022.07.22 @ 13:45:27

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Higerd #1-17

17-6s-31w Thomas KS

Start Date: 2022.07.16 @ 19:48:00
End Date: 2022.07.17 @ 03:54:22
Job Ticket #: 69072 DST #: 2

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

Printed: 2022.07.22 @ 13:42:34

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69072 **DST#: 2**

Test Start: 2022.07.16 @ 19:48:00

GENERAL INFORMATION:

Formation: **LKC C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:21:12
Time Test Ended: 03:54:22

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

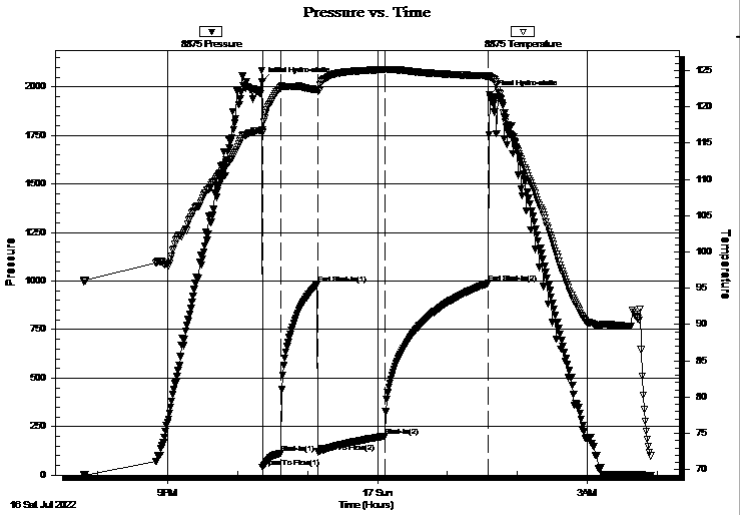
Interval: 4006.00 ft (KB) To 4032.00 ft (KB) (TVD)
Total Depth: 4032.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875 **Outside**

Press@RunDepth:	201.94 psig @	4007.00 ft (KB)		Capacity:	psig
Start Date:	2022.07.16	End Date:	2022.07.17	Last Calib.:	2022.07.17
Start Time:	19:48:01	End Time:	03:54:22	Time On Btm:	2022.07.16 @ 22:21:02
				Time Off Btm:	2022.07.17 @ 01:36:07

TEST COMMENT:
15-IF-Surface to 6"
30-ISI-No Return
60-FF-Surface to 6"
90-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2026.79	116.91	Initial Hydro-static
1	39.41	116.42	Open To Flow (1)
16	112.20	122.79	Shut-In(1)
48	983.82	122.36	End Shut-In(1)
48	119.87	122.17	Open To Flow (2)
106	201.94	125.14	Shut-In(2)
194	989.13	124.27	End Shut-In(2)
196	1958.56	124.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
230.00	Water 100%W	1.58
120.00	MW 40%M 60%W	1.70

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69072 **DST#: 2**

Test Start: 2022.07.16 @ 19:48:00

GENERAL INFORMATION:

Formation: **LKC C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:21:12
Time Test Ended: 03:54:22

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

Interval: 4006.00 ft (KB) To 4032.00 ft (KB) (TVD)
Total Depth: 4032.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

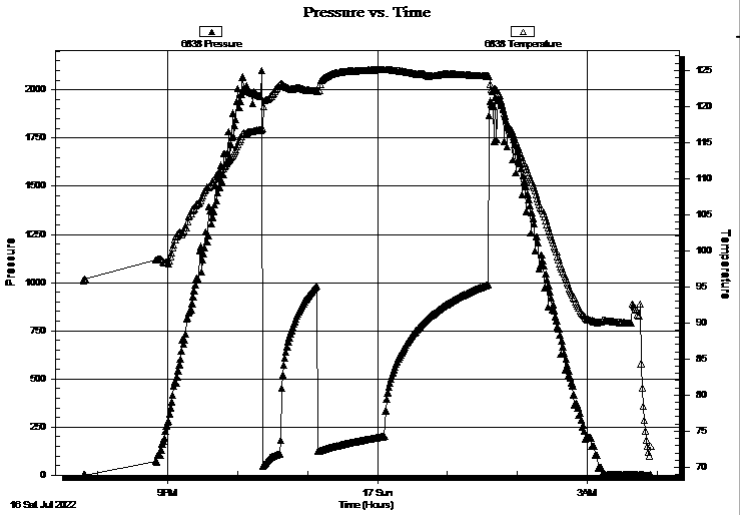
Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6838 **Inside**

Press@RunDepth: psig @ 4007.00 ft (KB)
Start Date: 2022.07.16 End Date: 2022.07.17
Start Time: 19:48:01 End Time: 03:54:22

Capacity: psig
Last Calib.: 2022.07.17
Time On Btm:
Time Off Btm:

TEST COMMENT:
15-IF-Surface to 6"
30-ISI-No Return
60-FF-Surface to 6"
90-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
230.00	Water 100%W	1.58
120.00	MW 40%M 60%W	1.70

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69072 **DST#: 2**

Test Start: 2022.07.16 @ 19:48:00

Tool Information

Drill Pipe:	Length:	3812.00 ft	Diameter:	3.82	inches	Volume:	54.04	bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75	inches	Volume:	-	bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length:	182.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	Weight to Pull Loose:	62000.00 daN
						Total Volume:	-	bbl	Tool Chased	ft
Drill Pipe Above KB:		20.00 ft							String Weight: Initial	59000.00 daN
Depth to Top Packer:		4006.00 ft							Final	60000.00 daN
Depth to Bottom Packer:		ft								
Interval between Packers:		26.00 ft								
Tool Length:		58.00 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			3975.00		
Shut In Tool	5.00			3980.00		
Hydraulic tool	5.00			3985.00		
Jars	5.00			3990.00		
Gap Sub	4.00			3994.00		
Safety Joint	3.00			3997.00		
Packer	5.00			4002.00	32.00	Bottom Of Top Packer
Packer	4.00			4006.00		
Stubb	1.00			4007.00		
Recorder	0.00	6838	Inside	4007.00		
Recorder	0.00	8875	Outside	4007.00		
Perforations	22.00			4029.00		
Bullnose	3.00			4032.00	26.00	Bottom Packers & Anchor
Total Tool Length:	**58.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69072 **DST#: 2**

Test Start: 2022.07.16 @ 19:48:00

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:	47000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

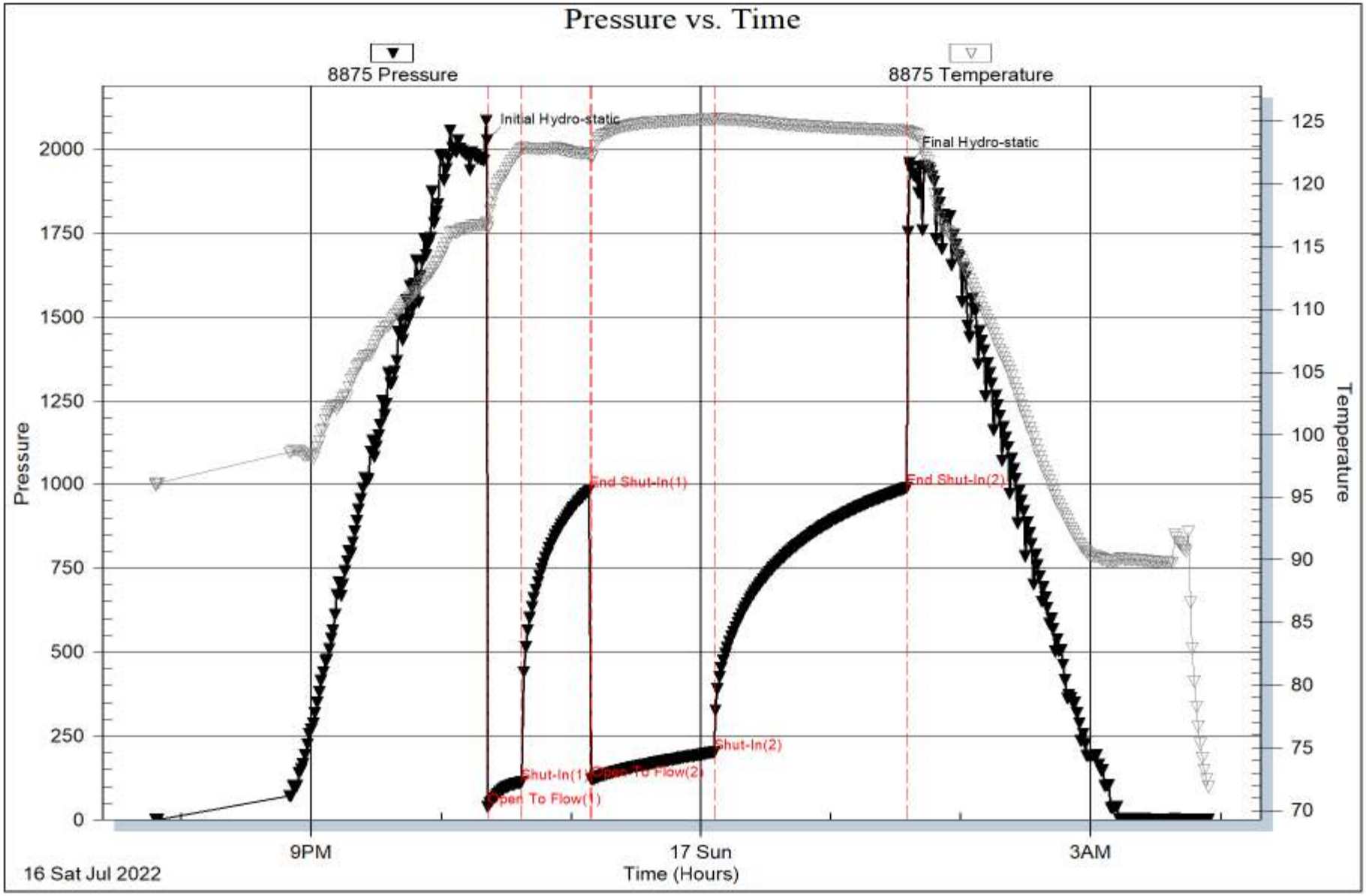
Length ft	Description	Volume bbl
230.00	Water 100%W	1.575
120.00	MW 40%M 60%W	1.701

Total Length: 350.00 ft Total Volume: 3.276 bbl

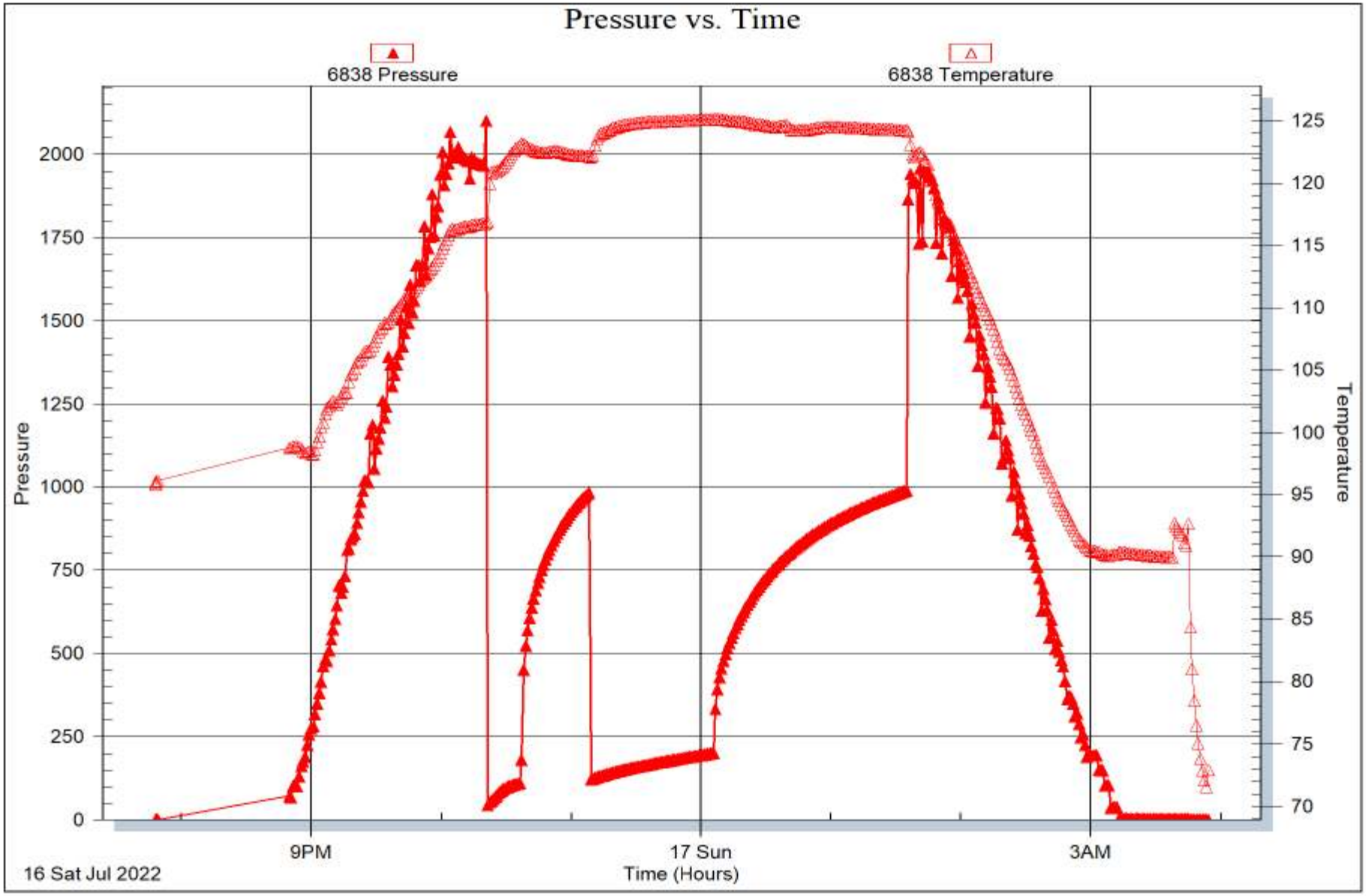
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 4#LCM
RW=.151@75F


Pressure vs. Time
8875 Pressure
8875 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Shut-In(2)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
125
120
115
110
105
100
95
90
85
80
75
70
9PM
17 Sun
3AM
16 Sat Jul 2022
Time (Hours)

Serial #: 6838 **Inside** Carmen Schmitt Inc Higerd #1-17 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 69072 Printed: 2022.07.22 @ 13:42:35

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Higerd #1-17

17-6s-31w Thomas KS

Start Date: 2022.07.17 @ 14:48:00

End Date: 2022.07.17 @ 20:11:12

Job Ticket #: 69073 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.22 @ 13:35:41

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69073 **DST#: 3**

Test Start: 2022.07.17 @ 14:48:00

GENERAL INFORMATION:

Formation: **LKC E - F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:56:12
Time Test Ended: 20:11:12

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

Interval: 4048.00 ft (KB) To 4080.00 ft (KB) (TVD)
Total Depth: 4080.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

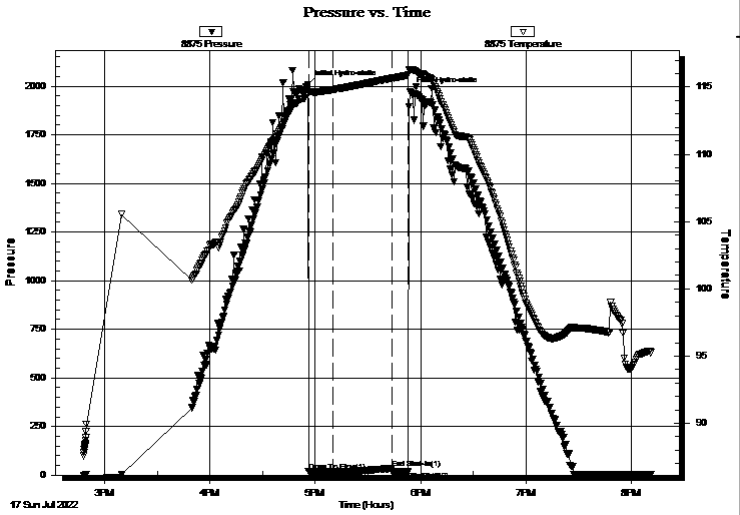
Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875 **Outside**

Press@RunDepth: 18.55 psig @ 4049.00 ft (KB)
Start Date: 2022.07.17 End Date: 2022.07.17
Start Time: 14:48:01 End Time: 20:11:11

Capacity: psig
Last Calib.: 2022.07.17
Time On Btm: 2022.07.17 @ 16:55:47
Time Off Btm: 2022.07.17 @ 17:54:02

TEST COMMENT: 15-IF-Surface Died @ 8 mins
30-ISI-No Return
10-FF-No Blow
Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.31	114.85	Initial Hydro-static
1	19.84	114.63	Open To Flow (1)
15	18.55	114.80	Shut-In(1)
48	34.69	115.66	End Shut-In(1)
49	19.98	115.66	Open To Flow (2)
57	18.93	115.91	Shut-In(2)
59	1973.45	116.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%M	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69073 **DST#: 3**

Test Start: 2022.07.17 @ 14:48:00

GENERAL INFORMATION:

Formation: **LKC E - F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:56:12
Time Test Ended: 20:11:12

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

Interval: 4048.00 ft (KB) To 4080.00 ft (KB) (TVD)
Total Depth: 4080.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

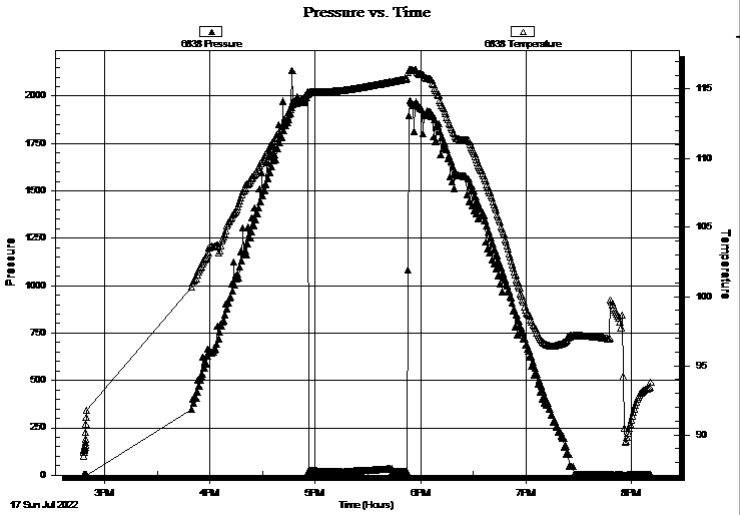
Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6838 **Inside**

Press@RunDepth: psig @ 4049.00 ft (KB)
Start Date: 2022.07.17 End Date: 2022.07.17
Start Time: 14:48:01 End Time: 20:11:11

Capacity: psig
Last Calib.: 2022.07.17
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF-Surface Died @ 8 mins
30-ISI-No Return
10-FF-No Blow
Pulled Tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%M	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69073 **DST#: 3**

Test Start: 2022.07.17 @ 14:48:00

Tool Information

Drill Pipe:	Length:	3844.00 ft	Diameter:	3.82	inches	Volume:	54.49	bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75	inches	Volume:	-	bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length:	182.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	Weight to Pull Loose:	70000.00 daN
						Total Volume:	-	bbl	Tool Chased	ft
Drill Pipe Above KB:		10.00 ft							String Weight: Initial	61000.00 daN
Depth to Top Packer:		4048.00 ft							Final	61000.00 daN
Depth to Bottom Packer:		ft								
Interval between Packers:		32.00 ft								
Tool Length:		64.00 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			4017.00		
Shut In Tool	5.00			4022.00		
Hydraulic tool	5.00			4027.00		
Jars	5.00			4032.00		
Gap Sub	4.00			4036.00		
Safety Joint	3.00			4039.00		
Packer	5.00			4044.00	32.00	Bottom Of Top Packer
Packer	4.00			4048.00		
Stubb	1.00			4049.00		
Recorder	0.00	6838	Inside	4049.00		
Recorder	0.00	8875	Outside	4049.00		
Perforations	28.00			4077.00		
Bullnose	3.00			4080.00	32.00	Bottom Packers & Anchor
Total Tool Length:	**64.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69073 **DST#: 3**

Test Start: 2022.07.17 @ 14:48:00

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:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.57 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4100.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

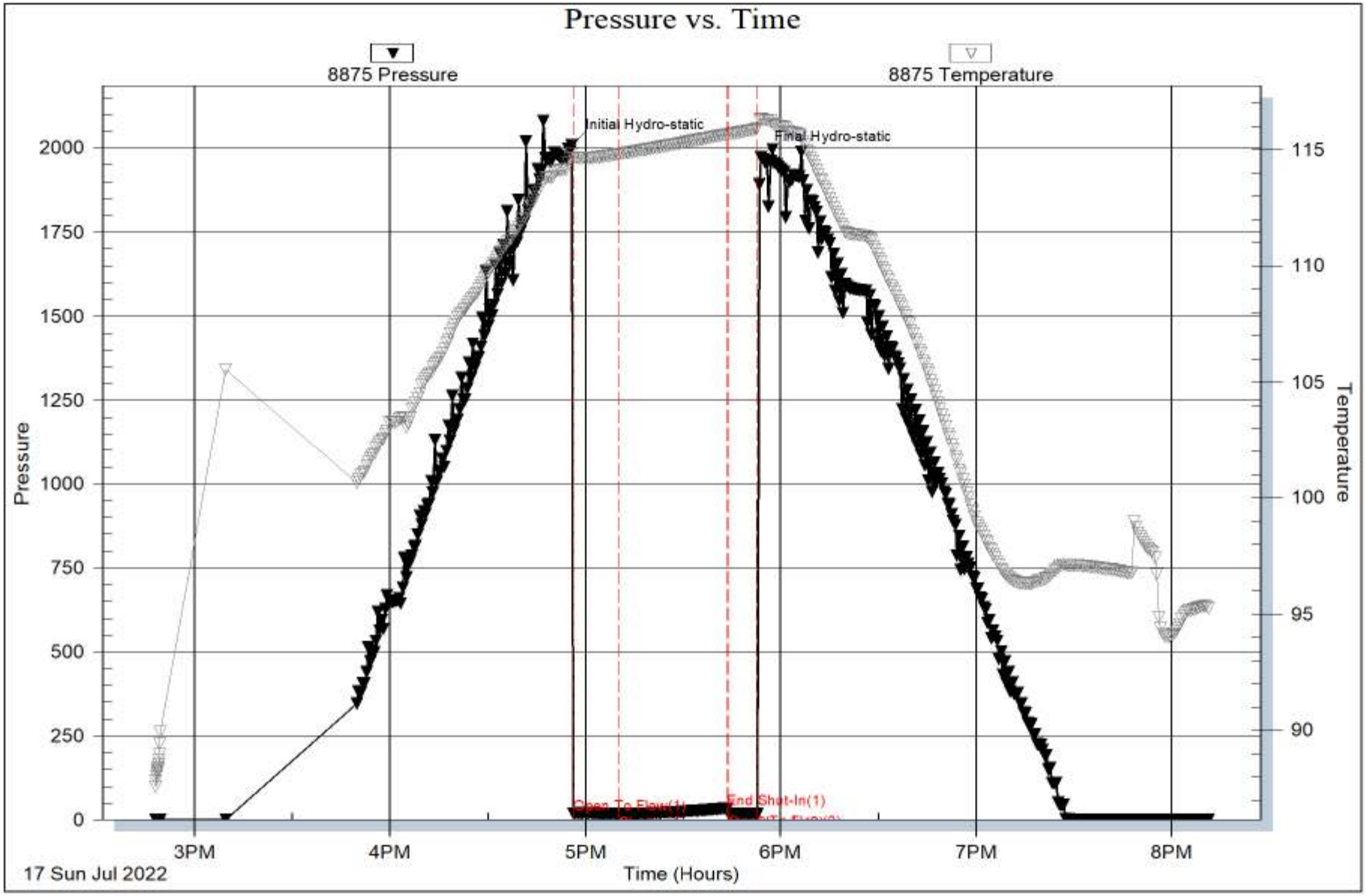
Length ft	Description	Volume bbl
1.00	Mud 100%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

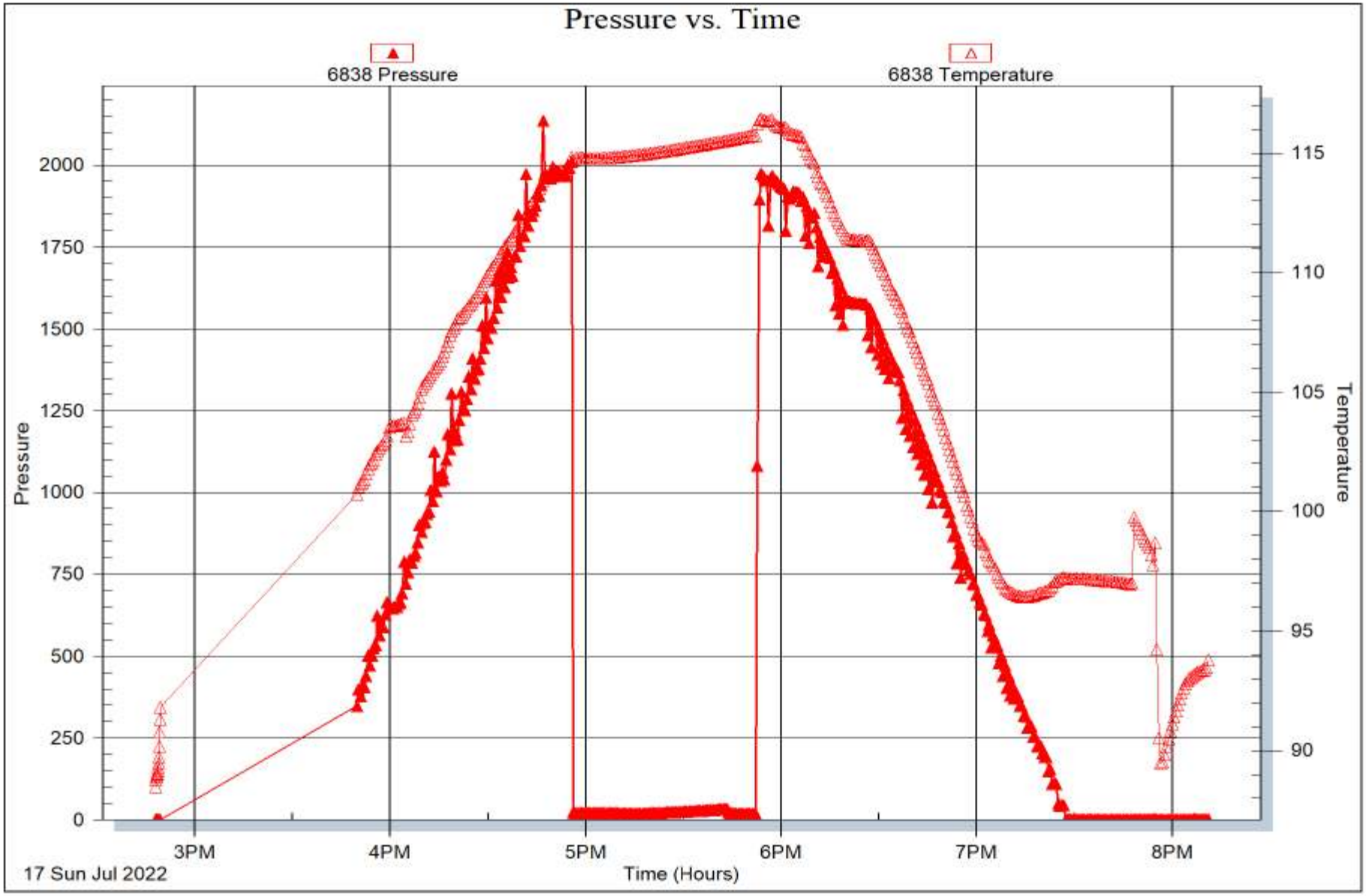
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 4#LCM


Pressure vs. Time
8875 Pressure
8875 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
End Shut-In(1)
Pressure
Temperature
2000
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
3PM
4PM
5PM
6PM
7PM
8PM
17 Sun Jul 2022
Time (Hours)

Serial #: 6838 **Inside** Carmen Schmitt Inc Higerd #1-17 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 69073 Printed: 2022.07.22 @ 13:35:42

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Higerd #1-17

17-6s-31w Thomas KS

Start Date: 2022.07.18 @ 16:05:00

End Date: 2022.07.18 @ 21:21:32

Job Ticket #: 69074 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.22 @ 13:32:46

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69074 **DST#: 4**

Test Start: 2022.07.18 @ 16:05:00

GENERAL INFORMATION:

Formation: **LKC J - K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:11:02
Time Test Ended: 21:21:32

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

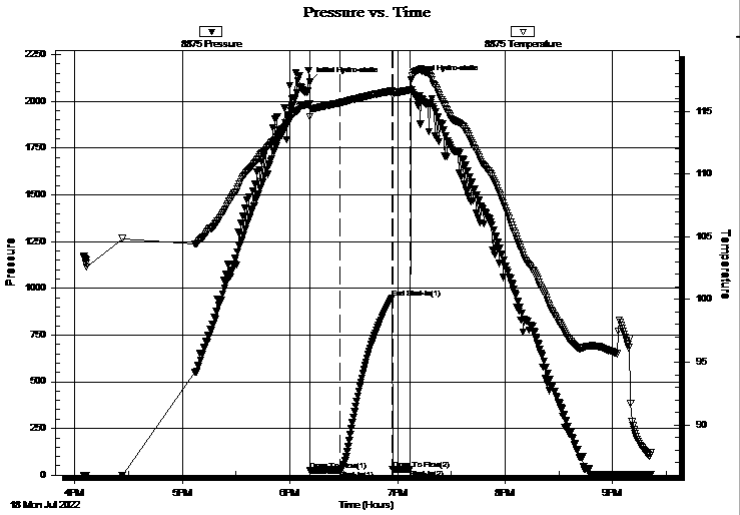
Interval: 4127.00 ft (KB) To 4210.00 ft (KB) (TVD)
Total Depth: 4210.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875 **Inside**

Press@RunDepth:	27.95 psig @	4131.00 ft (KB)		Capacity:	psig
Start Date:	2022.07.18	End Date:	2022.07.18	Last Calib.:	2022.07.18
Start Time:	16:05:01	End Time:	21:21:32	Time On Btm:	2022.07.18 @ 18:10:57
				Time Off Btm:	2022.07.18 @ 19:07:32

TEST COMMENT:
15-IF-Surface to 1/4"
30-ISI-No Return
10-FF-No Blow
Pull Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2102.86	115.62	Initial Hydro-static
1	25.25	114.58	Open To Flow (1)
18	27.95	115.68	Shut-In(1)
47	949.38	116.60	End Shut-In(1)
47	29.39	116.22	Open To Flow (2)
56	29.47	116.72	Shut-In(2)
57	2113.61	117.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM 100%M	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69074 **DST#: 4**

Test Start: 2022.07.18 @ 16:05:00

GENERAL INFORMATION:

Formation: **LKC J - K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:11:02
Time Test Ended: 21:21:32

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

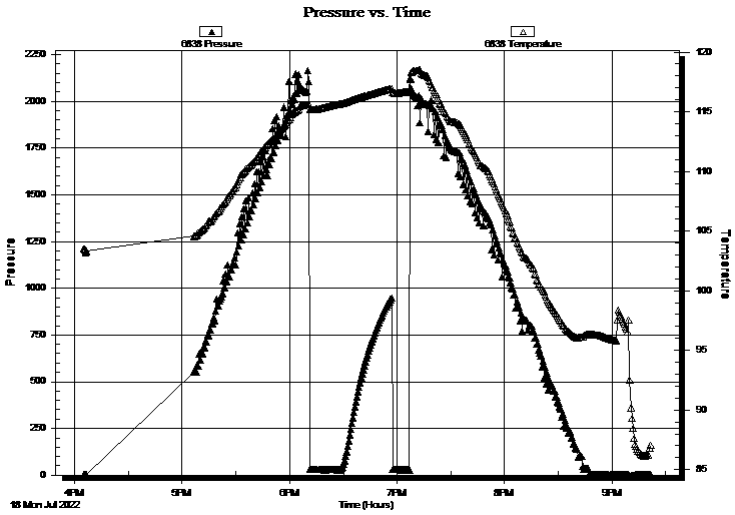
Interval: 4127.00 ft (KB) To 4210.00 ft (KB) (TVD)
Total Depth: 4210.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6838 **Inside**

Press@RunDepth:	psig @	4131.00 ft (KB)		Capacity:	psig
Start Date:	2022.07.18	End Date:	2022.07.18	Last Calib.:	2022.07.18
Start Time:	16:05:01	End Time:	21:21:32	Time On Btm:	
				Time Off Btm:	

TEST COMMENT:
15-IF-Surface to 1/4"
30-ISI-No Return
10-FF-No Blow
Pull Tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM 100%M	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69074 **DST#: 4**

Test Start: 2022.07.18 @ 16:05:00

Tool Information

Drill Pipe:	Length:	3938.00 ft	Diameter:	3.82	inches	Volume:	55.82	bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75	inches	Volume:	-	bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length:	182.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	Weight to Pull Loose:	63000.00 daN
						Total Volume:	-	bbl	Tool Chased	ft
Drill Pipe Above KB:		25.00 ft							String Weight: Initial	63000.00 daN
Depth to Top Packer:		4127.00 ft							Final	63000.00 daN
Depth to Bottom Packer:		ft								
Interval between Packers:		83.00 ft								
Tool Length:		115.00 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			4096.00		
Shut In Tool	5.00			4101.00		
Hydraulic tool	5.00			4106.00		
Jars	5.00			4111.00		
Gap Sub	4.00			4115.00		
Safety Joint	3.00			4118.00		
Packer	5.00			4123.00	32.00	Bottom Of Top Packer
Packer	4.00			4127.00		
Stubb	1.00			4128.00		
Perforations	2.00			4130.00		
Change Over Sub	1.00			4131.00		
Recorder	0.00	6838	Inside	4131.00		
Recorder	0.00	8875	Inside	4131.00		
Drill Pipe	63.00			4194.00		
Change Over Sub	1.00			4195.00		
Perforations	12.00			4207.00		
Bullnose	3.00			4210.00	83.00	Bottom Packers & Anchor
Total Tool Length:	**115.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69074 **DST#: 4**

Test Start: 2022.07.18 @ 16:05:00

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:	71.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3600.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

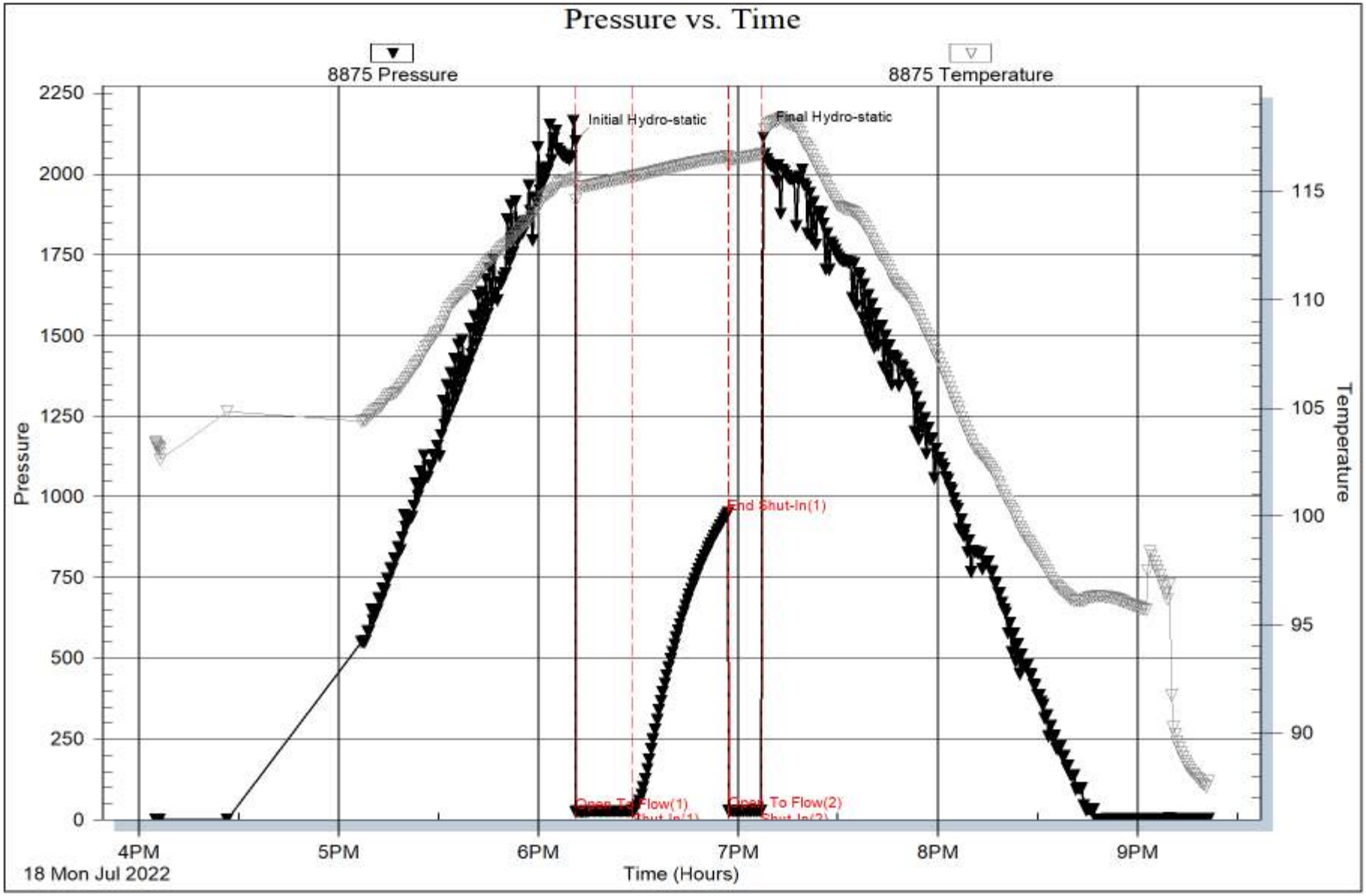
Length ft	Description	Volume bbl
15.00	OSM 100%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

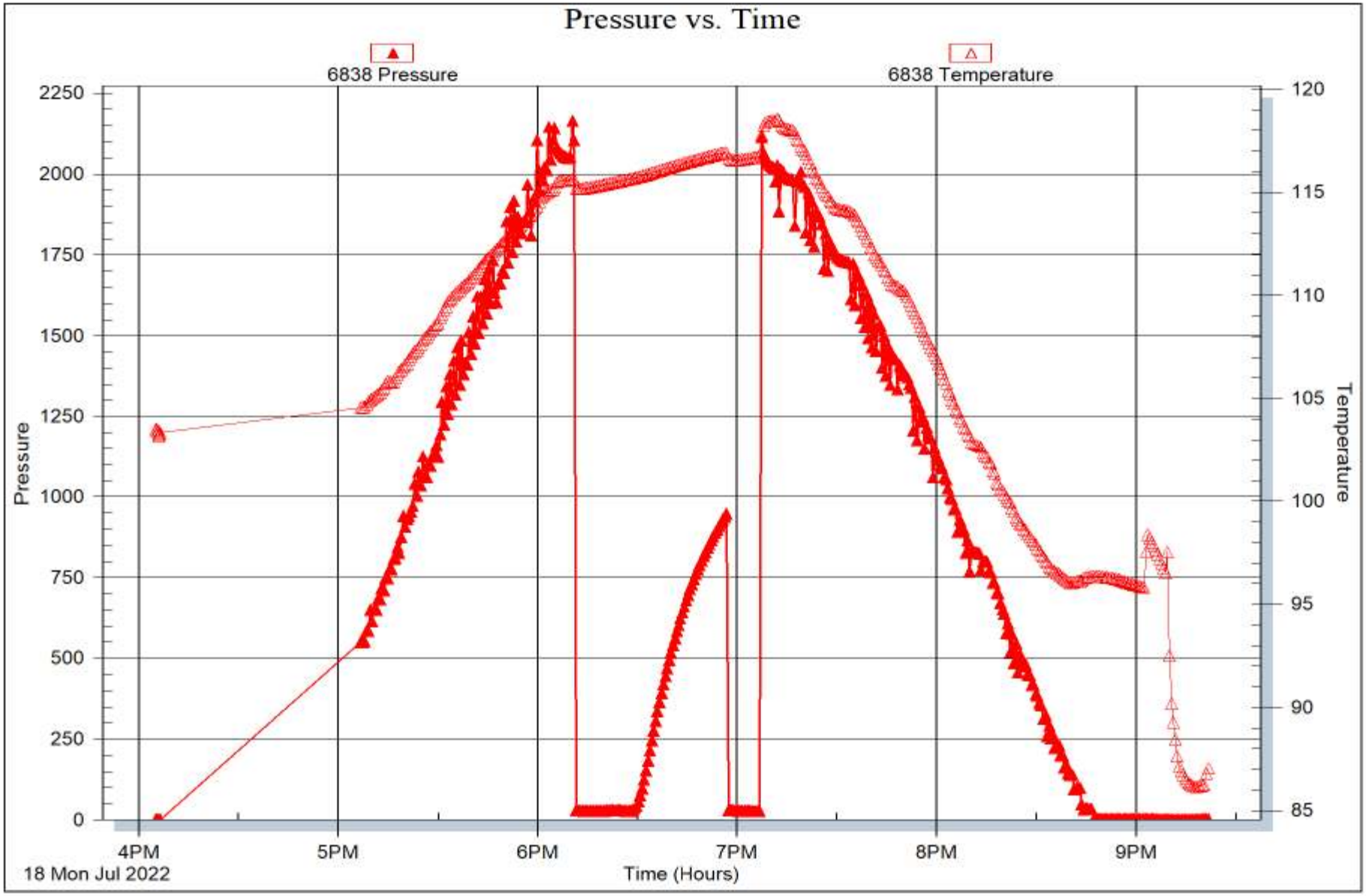
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 3#LCM


Pressure vs. Time
8875 Pressure
8875 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
2250
2000
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
4PM
18 Mon Jul 2022
5PM
6PM
7PM
8PM
9PM
Time (Hours)

Serial #: 6838 **Inside** Carmen Schmitt Inc Higerd #1-17 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 69074 Printed: 2022.07.22 @ 13:32:47

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Higerd #1-17

17-6s-31w Thomas KS

Start Date: 2022.07.19 @ 20:45:00

End Date: 2022.07.20 @ 02:25:32

Job Ticket #: 69075 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.22 @ 13:31:34

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69075 **DST#: 5**

Test Start: 2022.07.19 @ 20:45:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:05:47
Time Test Ended: 02:25:32

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

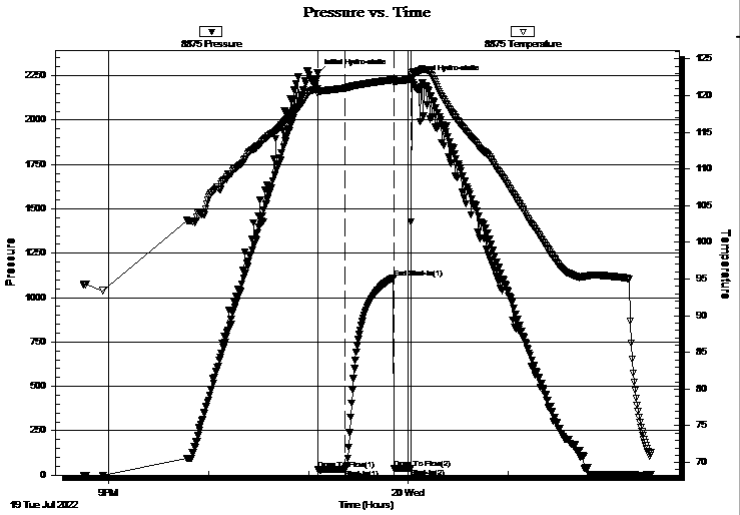
Interval: 4370.00 ft (KB) To 4414.00 ft (KB) (TVD)
Total Depth: 4414.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875 **Inside**

Press@RunDepth:	34.04 psig @	4373.00 ft (KB)		Capacity:	psig
Start Date:	2022.07.19	End Date:	2022.07.20	Last Calib.:	2022.07.20
Start Time:	20:45:01	End Time:	02:25:32	Time On Btm:	2022.07.19 @ 23:05:37
				Time Off Btm:	2022.07.20 @ 00:02:02

TEST COMMENT:
15-IF-Surface to 1/4"
30-ISI-No Return
10-FF-No Blow
Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.55	120.95	Initial Hydro-static
1	33.78	120.26	Open To Flow (1)
17	34.04	121.03	Shut-In(1)
46	1111.00	122.15	End Shut-In(1)
46	38.33	121.80	Open To Flow (2)
56	38.09	122.28	Shut-In(2)
57	2229.27	122.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69075 **DST#: 5**

Test Start: 2022.07.19 @ 20:45:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:05:47
Time Test Ended: 02:25:32

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

Interval: 4370.00 ft (KB) To 4414.00 ft (KB) (TVD)
Total Depth: 4414.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

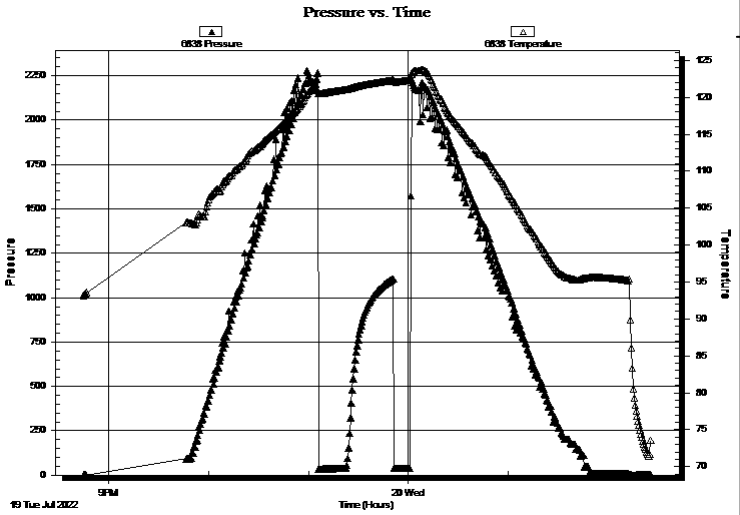
Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6838 **Inside**

Press@RunDepth: psig @ 4373.00 ft (KB)
Start Date: 2022.07.19 End Date: 2022.07.20
Start Time: 20:45:01 End Time: 02:25:32

Capacity: psig
Last Calib.: 2022.07.20
Time On Btm:
Time Off Btm:

TEST COMMENT:
15-IF-Surface to 1/4"
30-ISI-No Return
10-FF-No Blow
Pulled Tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69075 **DST#: 5**

Test Start: 2022.07.19 @ 20:45:00

Tool Information

Drill Pipe:	Length:	4191.00 ft	Diameter:	3.82	inches	Volume:	59.41	bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75	inches	Volume:	-	bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length:	182.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	Weight to Pull Loose:	70000.00 daN
						Total Volume:	-	bbl	Tool Chased	ft
Drill Pipe Above KB:		35.00 ft							String Weight: Initial	63000.00 daN
Depth to Top Packer:		4370.00 ft							Final	63000.00 daN
Depth to Bottom Packer:		ft								
Interval between Packers:		44.00 ft								
Tool Length:		76.00 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			4339.00		
Shut In Tool	5.00			4344.00		
Hydraulic tool	5.00			4349.00		
Jars	5.00			4354.00		
Gap Sub	4.00			4358.00		
Safety Joint	3.00			4361.00		
Packer	5.00			4366.00	32.00	Bottom Of Top Packer
Packer	4.00			4370.00		
Stubb	1.00			4371.00		
Perforations	1.00			4372.00		
Change Over Sub	1.00			4373.00		
Recorder	0.00	6838	Inside	4373.00		
Recorder	0.00	8875	Inside	4373.00		
Drill Pipe	32.00			4405.00		
Change Over Sub	1.00			4406.00		
Perforations	5.00			4411.00		
Bullnose	3.00			4414.00	44.00	Bottom Packers & Anchor
Total Tool Length:	**76.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69075 **DST#: 5**

Test Start: 2022.07.19 @ 20:45:00

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:	67.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

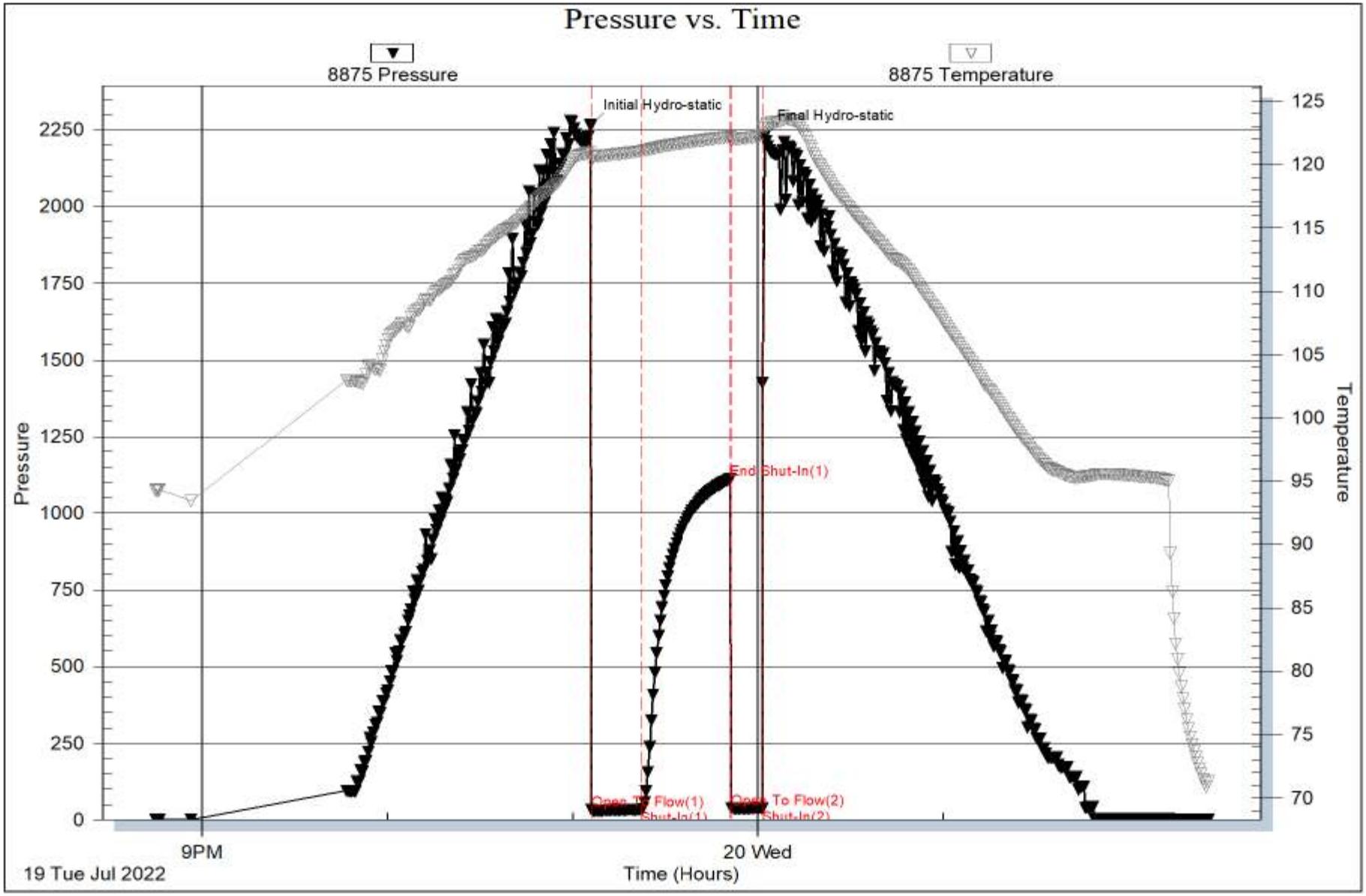
Length ft	Description	Volume bbl
10.00	OSM 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

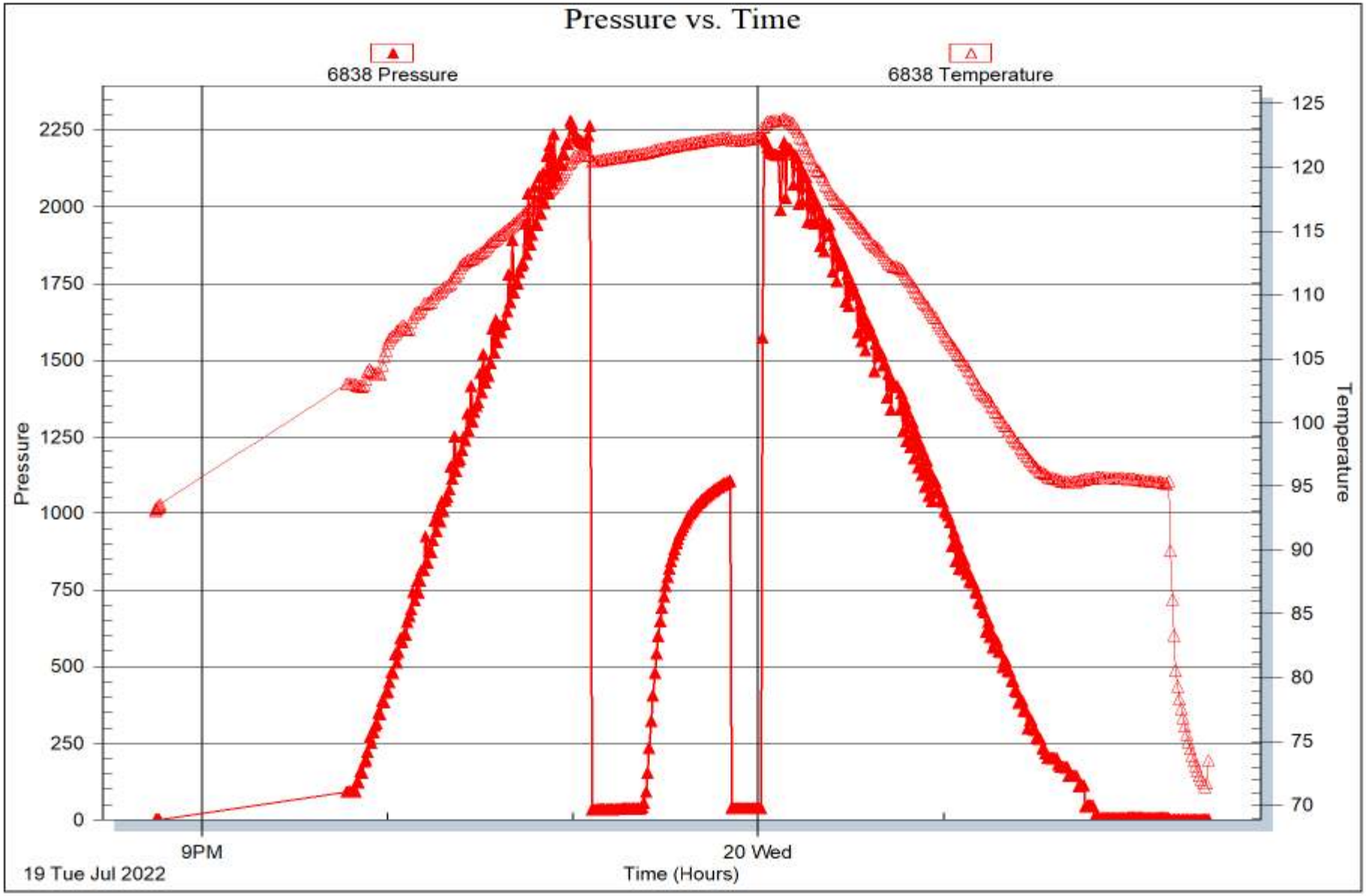
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 3#LCM


Pressure vs. Time
8875 Pressure
8875 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
2250
2000
1750
1500
1250
1000
750
500
250
0
125
120
115
110
105
100
95
90
85
80
75
70
9PM
20 Wed
19 Tue Jul 2022
Time (Hours)

Serial #: 6838 **Inside** Carmen Schmitt Inc Higerd #1-17 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 69075 Printed: 2022.07.22 @ 13:31:34

DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

Higerd #1-17

17-6s-31w Thomas KS

Start Date: 2022.07.20 @ 12:58:00

End Date: 2022.07.20 @ 17:51:56

Job Ticket #: 69776 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.22 @ 13:50:59

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69776 **DST#: 6**

Test Start: 2022.07.20 @ 12:58:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:50:02
Time Test Ended: 17:51:56

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

Interval: 4435.00 ft (KB) To 4493.00 ft (KB) (TVD)
Total Depth: 4493.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

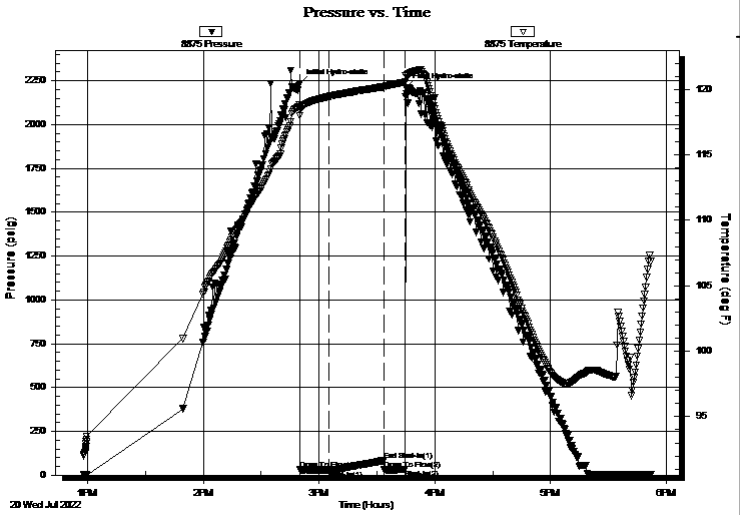
Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875 **Inside**

Press@RunDepth: 29.61 psig @ 4438.00 ft (KB)
Start Date: 2022.07.20 End Date: 2022.07.20
Start Time: 12:58:01 End Time: 17:51:56

Capacity: psig
Last Calib.: 2022.07.20
Time On Btm: 2022.07.20 @ 14:49:52
Time Off Btm: 2022.07.20 @ 15:45:17

TEST COMMENT: 15-IF-Surface to 3/4" Died to Surface
30-ISI-No Return
10-FF-No Blow
Pulled Tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.74	118.80	Initial Hydro-static
1	31.47	118.39	Open To Flow (1)
16	29.61	119.45	Shut-In(1)
44	83.39	120.20	End Shut-In(1)
45	31.87	120.21	Open To Flow (2)
55	31.44	120.58	Shut-In(2)
56	2210.60	121.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%M	0.10

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69776 **DST#: 6**

Test Start: 2022.07.20 @ 12:58:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:50:02
Time Test Ended: 17:51:56

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84

Interval: 4435.00 ft (KB) To 4493.00 ft (KB) (TVD)
Total Depth: 4493.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

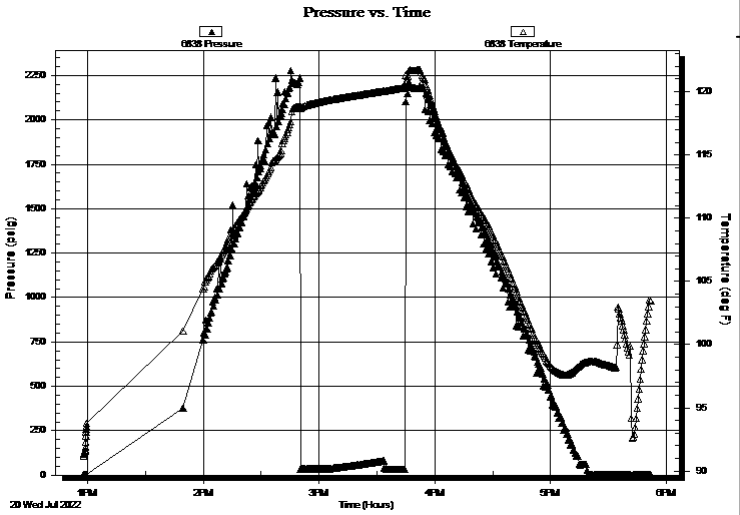
Reference Elevations: 2998.00 ft (KB)
2993.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6838 **Inside**

Press@RunDepth: psig @ 4438.00 ft (KB)
Start Date: 2022.07.20 End Date: 2022.07.20
Start Time: 12:58:01 End Time: 17:51:56

Capacity: psig
Last Calib.: 2022.07.20
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF-Surface to 3/4" Died to Surface
30-ISI-No Return
10-FF-No Blow
Pulled Tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%M	0.10

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69776 **DST#: 6**

Test Start: 2022.07.20 @ 12:58:00

Tool Information

Drill Pipe:	Length:	4253.00 ft	Diameter:	3.82	inches	Volume:	60.29	bbl	Tool Weight:	2500.00 daN
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75	inches	Volume:	-	bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length:	182.00 ft	Diameter:	2.25	inches	Volume:	0.90	bbl	Weight to Pull Loose:	920000.0 daN
						Total Volume:	-	bbl	Tool Chased	ft
Drill Pipe Above KB:		32.00 ft							String Weight: Initial	65000.00 daN
Depth to Top Packer:		4435.00 ft							Final	65000.00 daN
Depth to Bottom Packer:		ft								
Interval between Packers:		58.00 ft								
Tool Length:		90.00 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			4404.00		
Shut In Tool	5.00			4409.00		
Hydraulic tool	5.00			4414.00		
Jars	5.00			4419.00		
Gap Sub	4.00			4423.00		
Safety Joint	3.00			4426.00		
Packer	5.00			4431.00	32.00	Bottom Of Top Packer
Packer	4.00			4435.00		
Stubb	1.00			4436.00		
Perforations	1.00			4437.00		
Change Over Sub	1.00			4438.00		
Recorder	0.00	6838	Inside	4438.00		
Recorder	0.00	8875	Inside	4438.00		
Drill Pipe	32.00			4470.00		
Change Over Sub	1.00			4471.00		
Perforations	19.00			4490.00		
Bullnose	3.00			4493.00	58.00	Bottom Packers & Anchor
Total Tool Length:	**90.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt Inc

PO Box 47
Great Bend KS 67530+0047

ATTN: Brad Rine

17-6s-31w Thomas KS

Higerd #1-17

Job Ticket: 69776 **DST#: 6**

Test Start: 2022.07.20 @ 12:58:00

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:	61.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3700.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

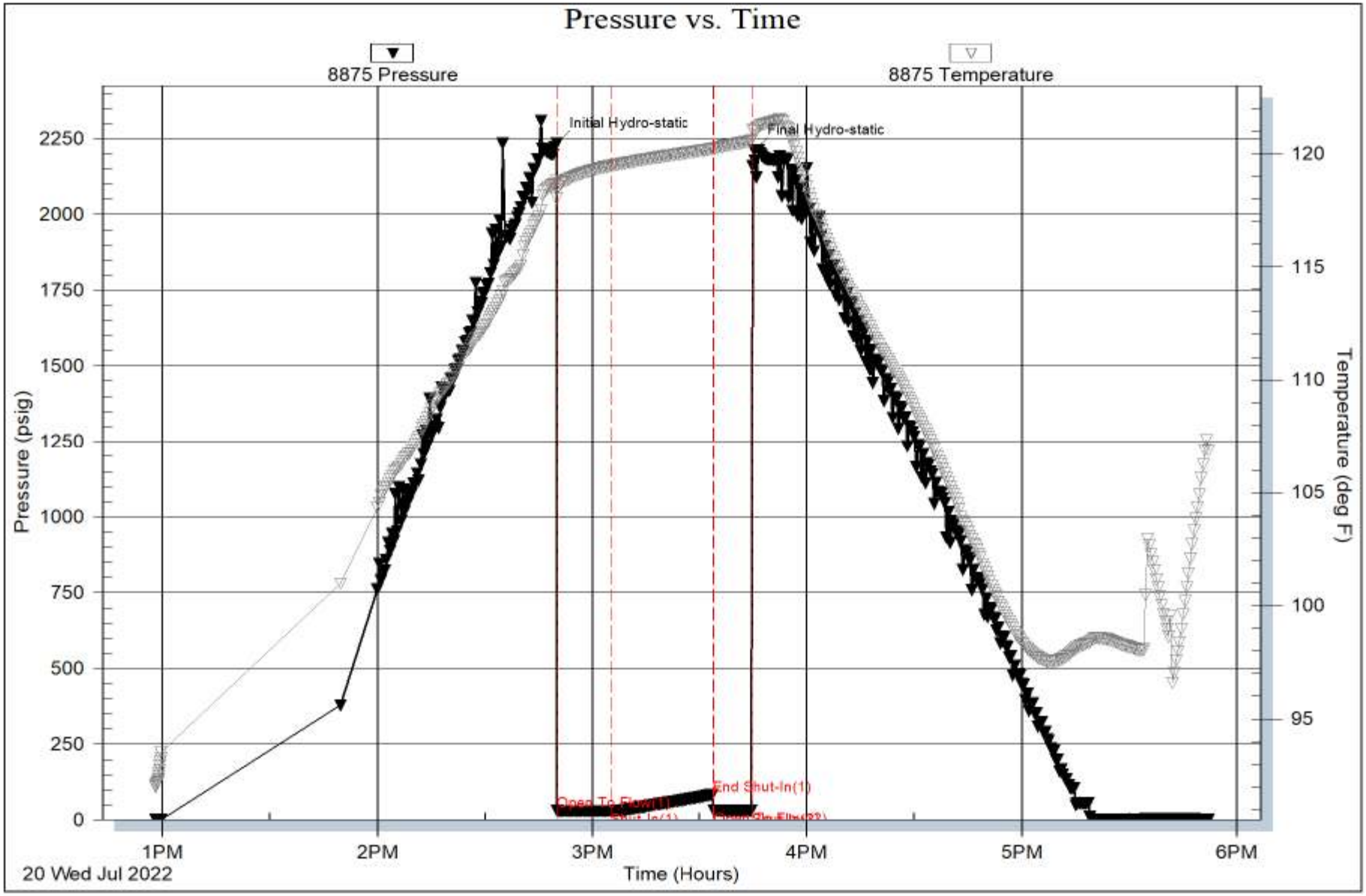
Length ft	Description	Volume bbl
20.00	Mud 100%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

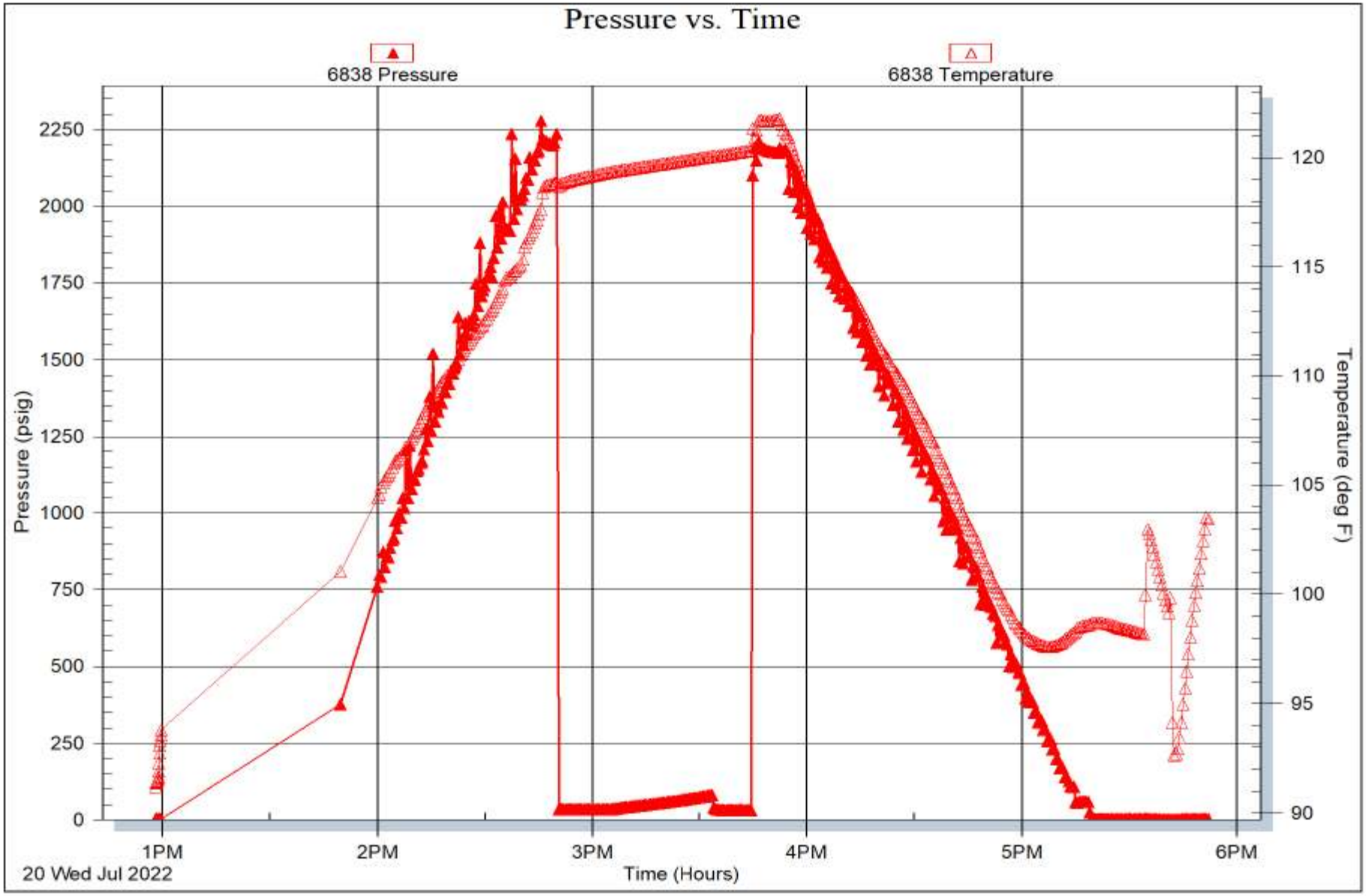
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: 3#LCM


Pressure vs. Time
8875 Pressure
8875 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
1PM
2PM
3PM
4PM
5PM
6PM
20 Wed Jul 2022
Time (Hours)

Serial #: 6838 **Inside** Carmen Schmitt Inc Higerd #1-17 DST Test Number: 6



Trilobite Testing, Inc Ref. No: 69776 Printed: 2022.07.22 @ 13:51:01

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 69071

Well Name & No. Higerd #1-17 Test No. 1 Date 07/16/2022
Company Carmen Schmitt, Inc Elevation 2998 KB 2993 GL
Address PO BOX 47 Great Bend Ks 67530+0047
Co. Rep / Geo. Brad Rine Rig Murfin #8
Location: Sec. 17 Twp 6s Rge. 31w Co. Thomas State Ks

Interval Tested 3939'-4011' Zone Tested Toronto - Lans a
Anchor Length 72' Drill Pipe Run 3749' Mud Wt. 8.9
Top Packer Depth 3934' Drill Collars Run 182' Vis 52
Bottom Packer Depth 3939' Wt. Pipe Run — WL 6.4
Total Depth 4011' Chlorides 2000 ppm System LCM 4#

Blow Description 17- Surface Blow
15d- No Return
77- No Blow
75d- Pulled Tool

Rec 20'	Feet of OSM	%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 20' BHT 119° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1974
(B) First Initial Flow 21
(C) First Final Flow 28
(D) Initial Shut-In 1278
(E) Second Initial Flow 31
(F) Second Final Flow 34
(G) Final Shut-In —
(H) Final Hydrostatic 1954

Initial Open 15
Initial Shut-In 30
Final Flow 10
Final Shut-In ↑

- [x] Test 1950
- [x] Jars 300
- [x] Safety Joint
- [ ] Circ Sub
- [ ] Hourly Standby
- [x] Mileage 70RT 105
- [ ] Sampler
- [ ] Straddle
- [x] Shale Packer 250
- [ ] Extra Packer
- [ ] Extra Recorder
- [ ] Day Standby
- [ ] Accessibility

Sub Total 2605

T-On Location 04:54
T-Started 06:45
T-Open 08:58
T-Pulled 09:53
T-Out 11:55
Comments hotel

- [x] EM Tool
- [ ] Ruined Shale Packer
- [ ] Ruined Packer
- [ ] Extra Copies

Sub Total 0
Total 2605
MP/DST Disc't

Approved By Our Representative Spencer J. Stevens Thanks!

785-259-0056

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 69072

Well Name & No. Higerd # 1-17 Test No. 2 Date 07/16/2022
Company Carmen Schmitt Inc Elevation 2998 KB 2993 GL
Address PO BOX 47 Great Bend Ks 67530+0047
Co. Rep / Geo. Brad Rine Rig Murfin #8
Location: Sec. 17 Twp 6s Rge. 31w Co. Thomas State Ks

Interval Tested 4006' - 4032 Zone Tested LKC C
Anchor Length 26' Drill Pipe Run 3812' Mud Wt. 9.2
Top Packer Depth 4001' Drill Collars Run 182' Vis 52
Bottom Packer Depth 4006' Wt. Pipe Run — WL 7.2
Total Depth 4032' Chlorides 2200 ppm System LCM 4#

Blow Description 17- Surface to 6"
15d- No Return
77- Surface to 6"
75d- No Return

Rec	230'	Feet of	Water	%gas	%oil	100	%water	%mud
Rec	120'	Feet of	MW	%gas	%oil	60	%water 40	%mud
Rec		Feet of		%gas	%oil		%water	%mud
Rec		Feet of		%gas	%oil		%water	%mud
Rec		Feet of		%gas	%oil		%water	%mud

Rec Total 350' BHT 124° Gravity — API RW .151 @ 75 °F Chlorides 47,000 ppm

(A) Initial Hydrostatic	2026	☒ Test	1950	T-On Location	18:41
(B) First Initial Flow	39	☒ Jars	300	T-Started	19:48
(C) First Final Flow	112	☒ Safety Joint		T-Open	22:18
(D) Initial Shut-In	983	☐ Circ Sub		T-Pulled	01:33
(E) Second Initial Flow	119	☐ Hourly Standby		T-Out	03:54
(F) Second Final Flow	201	☒ Mileage ~~70 RT~~	105	Comments	Hotel
(G) Final Shut-In	989	☐ Sampler			
(H) Final Hydrostatic	1958	☐ Straddle		☒ EM Tool	-350
		☒ Shale Packer	250	☐ Ruined Shale Packer	
Initial Open	15	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	30	☐ Extra Recorder		☐ Extra Copies	
Final Flow	60	☐ Day Standby		Sub Total	-350
Final Shut-In	90	☐ Accessibility		Total	2255
		Sub Total	2605	MP/DST Disc't	

Approved By _____ Our Representative Spencer J. Gaal

785-259-0056

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 69073

Well Name & No. Higerd # 1-17 Test No. 3 Date 07/17/2022
Company Carmen Schmitt Inc Elevation 2998 KB 2993 GL
Address PO BOX 47 Great Bend Ks 67530+0047
Co. Rep / Geo. Brad Kine Rig Murfin #8
Location: Sec. 17 Twp 6s Rge. 31w Co. Thomas State Ks

Interval Tested 4048' - 4080' Zone Tested LKC E & F
Anchor Length 32' Drill Pipe Run 3844' Mud Wt. 9.3
Top Packer Depth 4043' Drill Collars Run 182 Vis 54
Bottom Packer Depth 4048' Wt. Pipe Run – WL 9.6
Total Depth 4080' Chlorides 4100 ppm System LCM 4#

Blow Description IF-Surface; Died @ 8 mins
ISI- No Return
FF- No Blow
FSI - Pulled Tool

Rec 1'	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 1' BHT 115° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2009	☒ Test	1950	T-On Location	13:59
(B) First Initial Flow	19	☒ Jars	300	T-Started	14:48
(C) First Final Flow	18	☒ Safety Joint		T-Open	16:53
(D) Initial Shut-In	34	☐ Circ Sub		T-Pulled	17:48
(E) Second Initial Flow	19	☐ Hourly Standby		T-Out	20:08
(F) Second Final Flow	18	☒ Mileage 70x7	105	Comments	hotel
(G) Final Shut-In	—	☐ Sampler			
(H) Final Hydrostatic	1973	☐ Straddle		☒ EM Tool	-350
		☒ Shale Packer	250	☐ Ruined Shale Packer	
Initial Open	15	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	30	☐ Extra Recorder		☐ Extra Copies	
Final Flow	10	☐ Day Standby		Sub Total	-350
Final Shut-In	↑	☐ Accessibility		Total	2255
		Sub Total	2605	MP/DST Disc't	

Approved By Our Representative Spencer J Staab Thanks!

785-259-0056

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 69074

Well Name & No. Higerd # 1-17 Test No. 4 Date 07/18/2022
Company Carmen Schmitt Inc Elevation 2998 KB 2993 GL
Address PO BOX 47 Great Bend Ks 67530 +0047
Co. Rep / Geo. Brad Kine Rig Murfin #8
Location: Sec. 17 Twp 6s Rge. 31w Co. Thomas State Ks

Interval Tested 4127'-4210' Zone Tested LKC J & K
Anchor Length 83' Drill Pipe Run 3938' Mud Wt. 9.2
Top Packer Depth 4122' Drill Collars Run 182' Vis 71
Bottom Packer Depth 4127' Wt. Pipe Run — WL 7.2
Total Depth 4210' Chlorides 3600 ppm System LCM 3#

Blow Description IF- Surface to 1/4"
ISI- No Return
FF- No Blow
FSI- Pull Tool

Rec 15'	Feet of Mud w/oil spots	%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 15' BHT 116° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2102	☒ Test	1950	T-On Location	13:39
(B) First Initial Flow	25	☒ Jars	300	T-Started	16:05
(C) First Final Flow	27	☒ Safety Joint		T-Open	18:10
(D) Initial Shut-In	949	☐ Circ Sub		T-Pulled	19:05
(E) Second Initial Flow	29	☐ Hourly Standby		T-Out	21:19
(F) Second Final Flow	29	☒ Mileage 70 mi	105	Comments	Hotel
(G) Final Shut-In	—	☐ Sampler			
(H) Final Hydrostatic	2113	☐ Straddle		☒ EM Tool	
		☒ Shale Packer	250	☐ Ruined Shale Packer	
Initial Open	15	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	30	☐ Extra Recorder		☐ Extra Copies	
Final Flow	10	☐ Day Standby		Sub Total	0
Final Shut-In	↑	☐ Accessibility		Total	2605
		Sub Total	2605	MP/DST Disc't	

Approved By Our Representative Spencer J Staab Thanks

785-259-0036

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601
4/10

Test Ticket

NO. 69075

Well Name & No. Higerd # 1-17 Test No. 5 Date 07/19/2022
Company Carmen Schmitt Elevation 2998 KB 2993 GL
Address PO BOX 47 Great Bend Ks 67530 + 0047
Co. Rep / Geo. Brad Kine Rig Murfin #8
Location: Sec. 17 Twp 6S Rge. 31w Co. Thomas State Ks

Interval Tested 4370'-4414' Zone Tested Ft. Scott
Anchor Length 44' Drill Pipe Run 4191' Mud Wt. 9.3
Top Packer Depth 4365' Drill Collars Run 182' Vis 67
Bottom Packer Depth 4370' Wt. Pipe Run – WL 8.8
Total Depth 4414 Chlorides 3200 ppm System LCM 3#

Blow Description 17- Surface to 1/4"
15D- No Return
77- No Blow
75D- Pulled Tool

Rec 10'	Feet of OSM	%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 10' BHT 122° Gravity – API RW – @ – °F Chlorides – ppm

(A) Initial Hydrostatic 2262	☒ Test 1950	T-On Location 20:11
(B) First Initial Flow 33	☒ Jars 300	T-Started 20:45
(C) First Final Flow 34	☒ Safety Joint	T-Open 23:03
(D) Initial Shut-In 1111	☐ Circ Sub	T-Pulled 23:58
(E) Second Initial Flow 38	☐ Hourly Standby	T-Out 02:23
(F) Second Final Flow 38	☒ Mileage 70 x 2 105	Comments Hotel
(G) Final Shut-In –	☐ Sampler	
(H) Final Hydrostatic 2229	☐ Straddle	☒ EM Tool -350
	☒ Shale Packer 250	☐ Ruined Shale Packer
Initial Open 15	☐ Extra Packer	☐ Ruined Packer
Initial Shut-In 30	☐ Extra Recorder	☐ Extra Copies
Final Flow	☐ Day Standby	Sub Total -350
Final Shut-In	☐ Accessibility	Total 2255
	Sub Total 2605	MP/DST Disc't

Approved By Our Representative Spencer Stark Thanks!

785-259-0036

TRILOBITE TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601
4/10

Test Ticket

NO. 69776

Well Name & No. Hegerd #1-17 Test No. 6 Date 07/20/2022
Company Carmen Schmitt Inc Elevation 2998 KB 2993 GL
Address PO BOX 47 Great Bend Ks 67530 +0047
Co. Rep / Geo. Brad Kine Rig Murfin #8
Location: Sec. 17 Twp 6s Rge. 31w Co. Thomas State Ks

Interval Tested 4435'-4493' Zone Tested Cherokee
Anchor Length 58' Drill Pipe Run 4253' Mud Wt. 9.4
Top Packer Depth 4430' Drill Collars Run 182' Vis 61
Bottom Packer Depth 4435' Wt. Pipe Run — WL 9.6
Total Depth 4493' Chlorides 3700 ppm System LCM 3#

Blow Description 1st - Surface to 3/4"; Died to Surface
2nd - No Return
3rd - No Blow
4th - Pulled Tool

Rec 20'	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 20' BHT 120° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2232	☒ Test	1950	T-On Location	12:24
(B) First Initial Flow	31	☒ Jars	300	T-Started	12:58
(C) First Final Flow	29	☒ Safety Joint		T-Open	14:48
(D) Initial Shut-In	83	☐ Circ Sub		T-Pulled	15:42
(E) Second Initial Flow	31	☐ Hourly Standby		T-Out	17:50
(F) Second Final Flow	31	☒ Mileage 70 x 7 x 2	105+105	Comments	hotel, loaded @ 13:00 07/21/2022
(G) Final Shut-In		☐ Sampler			
(H) Final Hydrostatic	2210	☐ Straddle		☒ EM Tool	-350
		☒ Shale Packer	250	☒ Ruined Shale Packer	550
Initial Open	15	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	30	☐ Extra Recorder		☐ Extra Copies	
Final Flow	10	☐ Day Standby		Sub Total	550 - 350
Final Shut-In	↑	☐ Accessibility		Total	3260
		Sub Total	2710	MP/DST Disc't	

Approved By _____ Our Representative Spencer Grant Thanks!

785-254-0056

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	Higerd #1-17 - Carmen Schmitt, Inc.		
API:	15-193-21104-00-00		
Location:	SE-NW-SW-NW, Section 17-06S-31W		
License Number:	KCC #6569	Region:	Thomas Co, Ks.
Spud Date:	July 12, 2022	Drilling Completed:	July 21, 2022
Surface Coordinates:	Vertical Wellbore	Results: D&A	
Bottom Hole Coordinates:	1800'FNL & 600'FWL, of Section	Field: NA	
Ground Elevation (ft):	2993 Ft.	K.B. Elevation (ft):	2998 Ft.
Logged Interval (ft):	3500 Ft. To: 4610 Ft.	Total Depth (ft):	RTD 4610 Ft. LTD 4610 Ft.
Formation:	Mississippian at Total Depth		
Type of Drilling Fluid:	Chemical		

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

Operator

Company: Carmen Schmitt, Inc.
Address: PO Box 47
Great Bend, Kansas 67530+0047

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #320A
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "Higerd #1-17", on July 21, 2022.

Respectfully,
M. Bradford Rine, geologist

Drilling Information

Rig: Murfin Drilling, #8
Pump: National K380 6x14
Drawworks: Ideco H35
Collars: 540' 2-1/4 x 6-1/4
Drillpipe: 4-1/5" 16.6# XH
Toolpusher: Jason Galli

Mud: Mudco (Reid Atkins)
Gas Detector: None
Drill Stem Tests: Trilobite (Spencer Staab)
Logs: Midwest (T. Martin)
Water: Water Well 5.5 miles South (Hoxie Tank)
Company Representatives:
Office: Carmen Schmitt
Field: None

Daily Drilling Status

Date:	Operations/Depth/Comments
07-11-22	MIRT, RU @ 0'
07-12-22	Spud @ 0'
07-13-22	Drilling @ 1115'
07-14-22	Drilling @ 3120'
07-15-22	Drilling @ 3725'
07-16-22	Pick Up Tools for DST #1 @ 4011'
07-17-22	Drilling @ 4035'
07-18-22	Circulating for Samples @ 4155'
07-19-22	Drilling @ 4280'
07-20-22	Drilling @ 4445'
07-21-22	Circulating to Condition Hole @ 4610' RTD
	Plugged, job completed 7:30 PM

	Results:	D&A		(Well A)	D&A	(Well B)	D&A		
	Carmen Schmitt, Inc.			Rains & Williamson Oil		Haliburton Oil Prod.			
	Higerd #1-17			Barnett A #2		Dechert #1			
	1800'FSL & 600'FWL			2280'FNL & 1980'FEL		330'FSL & 330' FWL			
	Sec. 17-06S-31W			Sec. 17-06S-31W		Sec. 17-06S-31W			
	KB	2998		KB	2998	KB	3009	Well A	Well B
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Anhydrite	2661	2662	336	2660	338	2668	341	-2	-5
B/Anhydrite	2695	2696	302	2693	305	2701	308	-3	-6
Howard	3721	3722	-724	3718	-720	3733	-724	-4	0
Topeka	3771	3774	-776	3768	-770	3784	-775	-6	-1
Oread	3913	3917	-915	3909	-911	3926	-917	-4	2
Heebner Sh	3947	3950	-949	3946	-948	3960	-951	-1	2
Toronto	3979	3981	-981	3978	-980	3993	-984	-1	3
Lansing	3996	3997	-998	3995	-997	4009	-1000	-1	2
Muncie Creek Sh	4106	4105	-1108	4102	-1104	4116	-1107	-4	-1
Stark Sh.	4175	4176	-1177	4174	-1176	4189	-1180	-1	3
B/Kansas City	4240	4237	-1242	4232	-1234	4252	-1243	-8	1
Marmaton	4250	4250	-1252	4245	-1247	4264	-1255	-5	3
Pawnee	4322	4317	-1324	4307	-1309	4332	-1323	-15	-1
Lower Pawnee	4355	4348	-1357	4338	-1340	4364	-1355	-17	-2
Ft. Scott	4386	4385	-1388	4374	-1376	4399	-1390	-12	2
Cherokee Sh	4411	4409	-1413	4402	-1404	4426	-1417	-9	4
Cherokee Sd/Cgl	NC	NC	NA	NOL	NA	NC	NA	NA	NA
Mississippian	4551	4551	-1553	NOL	NA	4563	-1554	NA	1
Total Depth	4610	4610	-1612	4482	-1484	4630	-1621	-128	9

Casing Record, Bit Record, Deviation Surveys

CASING:
Conductor: None

Surface: Ran 6 jts, 8-5/8" 23#, set @ 262'. (Copeland) Cement with 225sx 60/40 POZ, 3%CC, 2%gel. PLug down at 12:15 pm, July 12, 2022. Cement did circulate.

Production: P&A as follows: (Copeland) Plug with 225sx Total, 60/40 POZ, 4% gel. 50sx @ 2675', 100sx @ 1848', 50sx @ 315', 10sx in RH, 30sx in MH. JOb complete at 7:30 PM, July 21, 2022.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	HTC	MSLC	0	262	2.00
2	7-7/8	Smith	MDi516	262	3475	38.75
3	7-7/8	Smith	FHi20	3475	4610	65.50

DEVIATION SURVEYS:

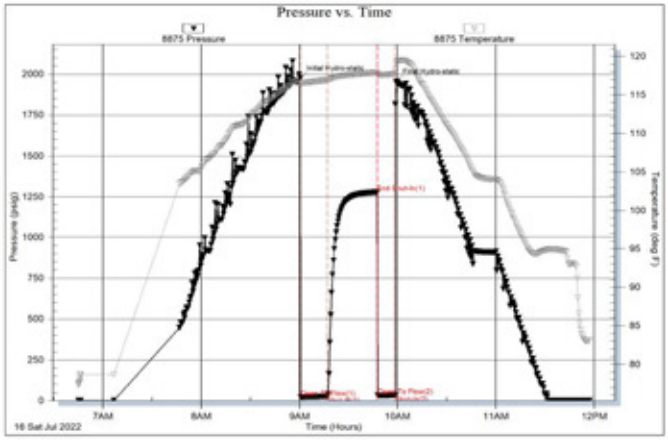
Deviation:	Depth:	Deviation:	Depth:
0.50*	262'	0.50*	4032'
1.00*	3475'	1.00*	4493'
Misrun	4011'	1.00*	4610'

PIPE STRAPS:

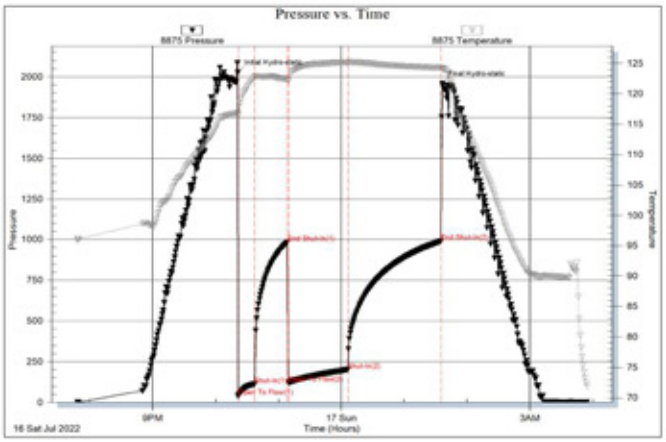
Difference:	Depth:
0.45' short	3475'

MUD UP:
Displace @ 3381'
Mudup @ 3412'

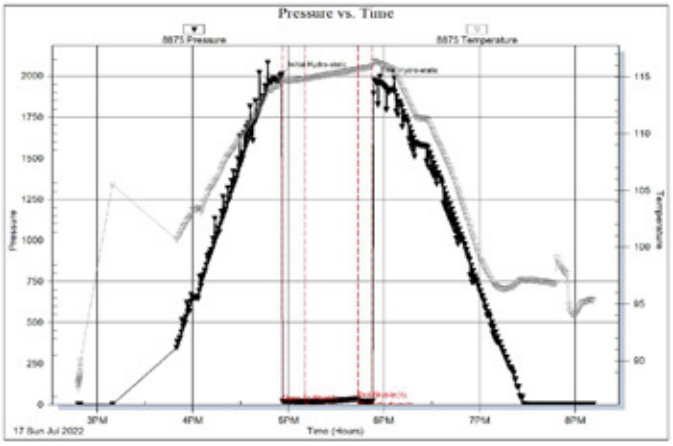
DST #1: 3939-4011 (Toronto, Lansing A)
Times: 15-30-10-out
Initial Open: Weak Surface Blow
Final Open: No Blow
Rec: 20' oil specked mud
IHP: 1974 FHP: 1954
IFP: 21-28 FFP: 31-34
ISIP: 1278 FSIP: NA
BHT: 119*F



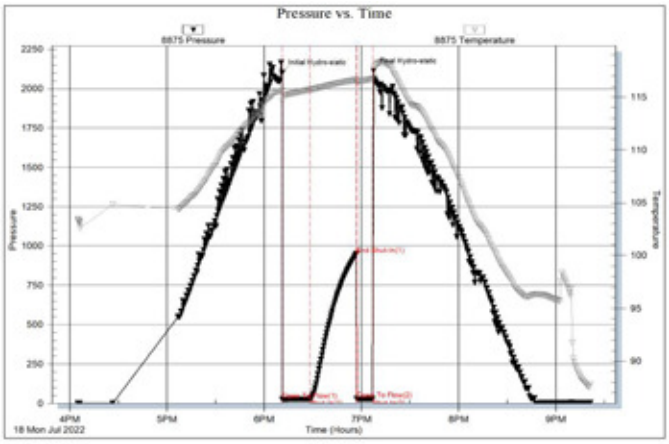
DST #2: 4006-4032 (Lansing C)
Times: 15-30-60-90
Initial Open: Mod Blow, built to 6" i.b.
Final Open: Mod Blow, built to 6" i.b.
Rec: 350' Total Fluid
230' Water (47,000 ppm Chl)
120' MCW 60%w 40%m
IHP: 2026 FHP: 1958
IFP: 39-112 FFP: 119-201
ISIP: 983 FSIP: 989
BHT: 124*F



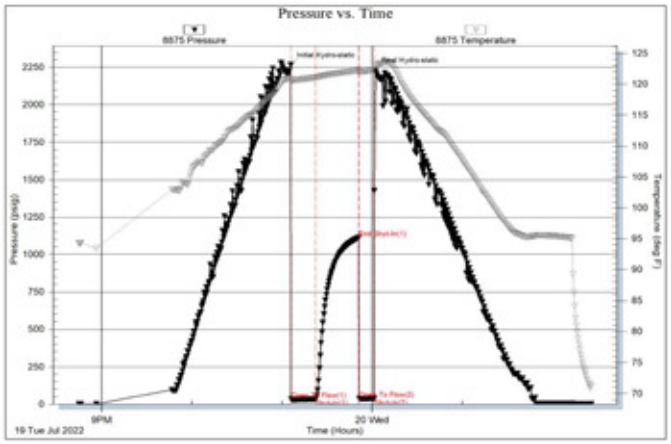
DST #3: 4048-4080 (Lansing E,F)
Times: 15-30-10-out
Initial Open: Wk Surface Blow, died 8 min.
Final Open: No Blow
Rec: 1' mud
IHP: 2009 FHP: 1973
IFP: 19-18 FFP: 19-18
ISIP: 34 FSIP: NA
BHT: 115*F



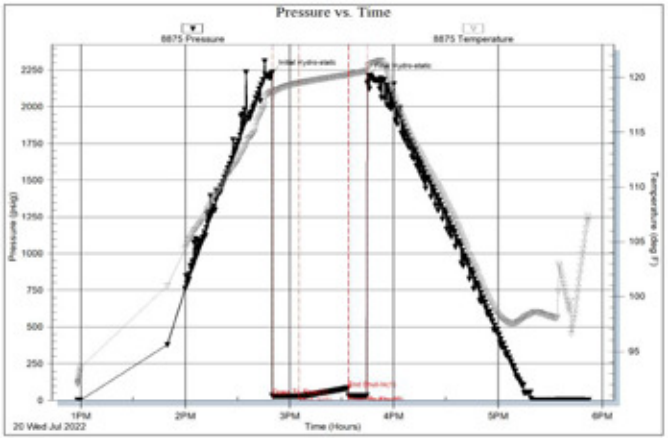
DST #4: 4127-4210 (LKC J,K)
Times: 15-30-10-out
Initial Open: Wk Blow, built to 1/4" i.b.
Final Open: No Blow
Rec: 15' mud/oil spots
IHP: 2101 FHP: 2113
IFP: 25-27 FFP: 29-29
ISIP: 949 FSIP: NA
BHT: 116*F



DST #5: 4370-4414 (Ft. Scott)
Times: 15-30-10-out
Initial Open: Wk Blow, built to 1/4" i.b.
FInal Open: No Blow
Rec: 10' mud with oil spots
IHP: 2262 FHP: 2229
IFP: 33-34 FFP: 38-38
ISIP: 1111 FSIP: NA
BHT: 122*F



DST #6: 4435-4493 (Cherokee)
Times: 15-30-10-out
Initial Open: Wk Blow, built to 3/4" i.b., then died back to surface blow
Final Open: No Blow
Rec: 20' mud
IHP: 2232 FHP: 2210
IFP: 31-29 FFP: 31-31
ISIP: 83 FSIP: NA
BHT: 122*F



Rock Types

- Cgl/gran wash
- Dol ls/lmy dol
- New symbol
- Dol ls/lmy dol
- New symbol
- Anhy
- Bent
- Brec
- Cht
- Clyst
- Blk sh/coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy
- Sltst
- Ss
- Till
- Sltysh
- Shlysiltst
- Sandyls

Accessories

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Shale
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- BS Boundst
- C Chalky
- CX Cryxln
- E Earthy
- FX Finexln
- GS Grainst
- L Lithogr
- MX Microxln
- MS Mudst
- PS Packst
- WS Wackest

Other Symbols

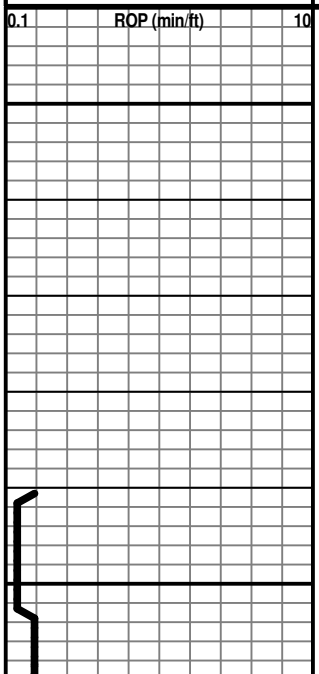
OIL SHOW

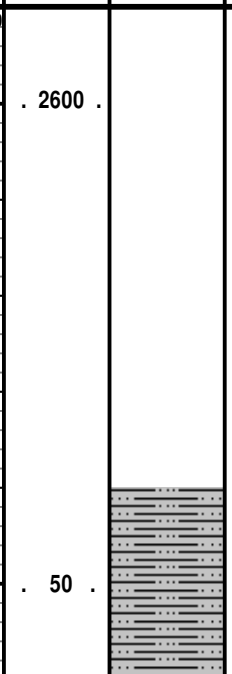
- Oil & gas show
- Gas show
- Even
- Spotted
- Trace or questionable
- Dead
- Gas

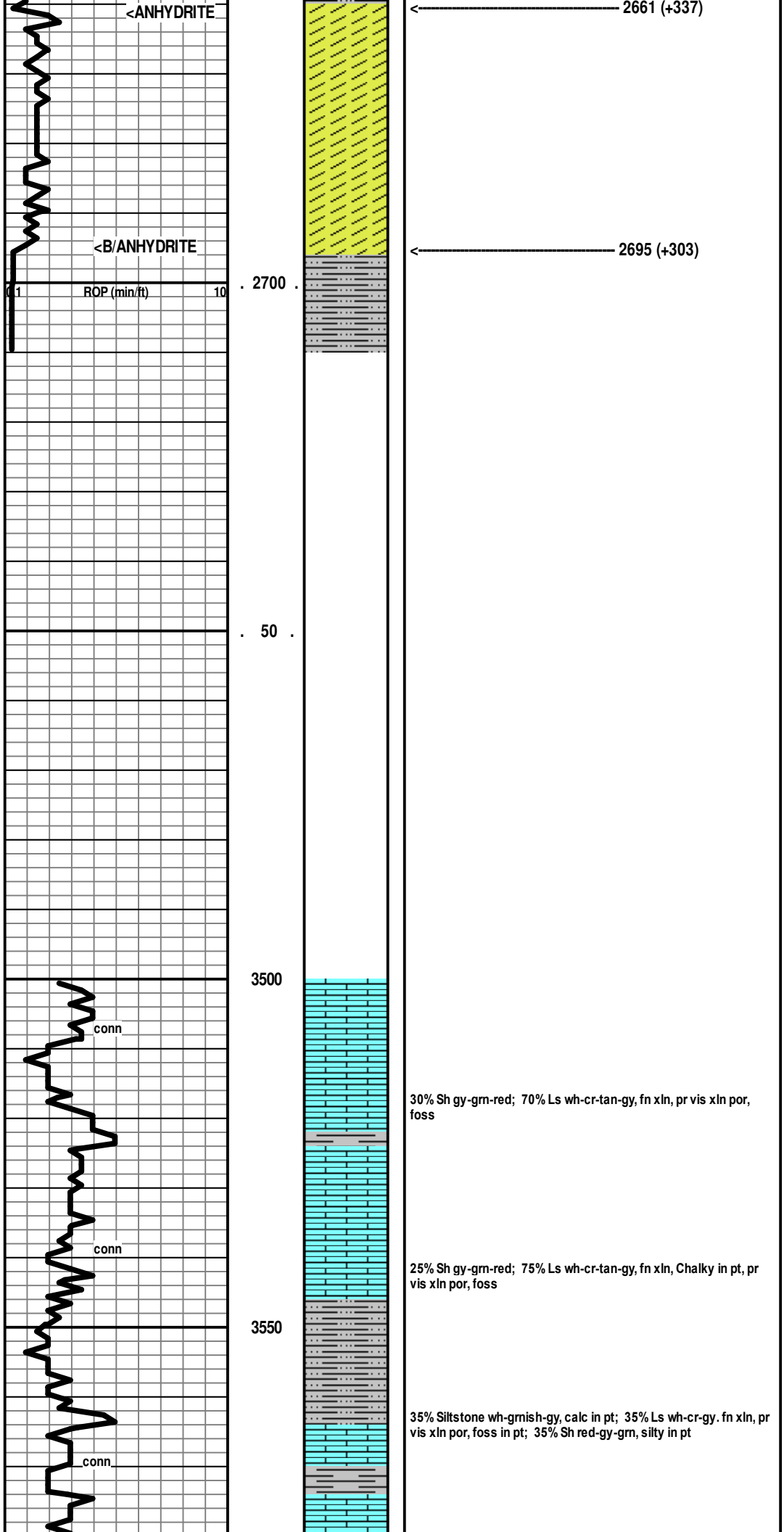
INTERVAL

- Core
- Dst

ROP (min/ft)	MD	Lithology	Shows	Geological Descriptions	Remarks
ROP (min/ft)					

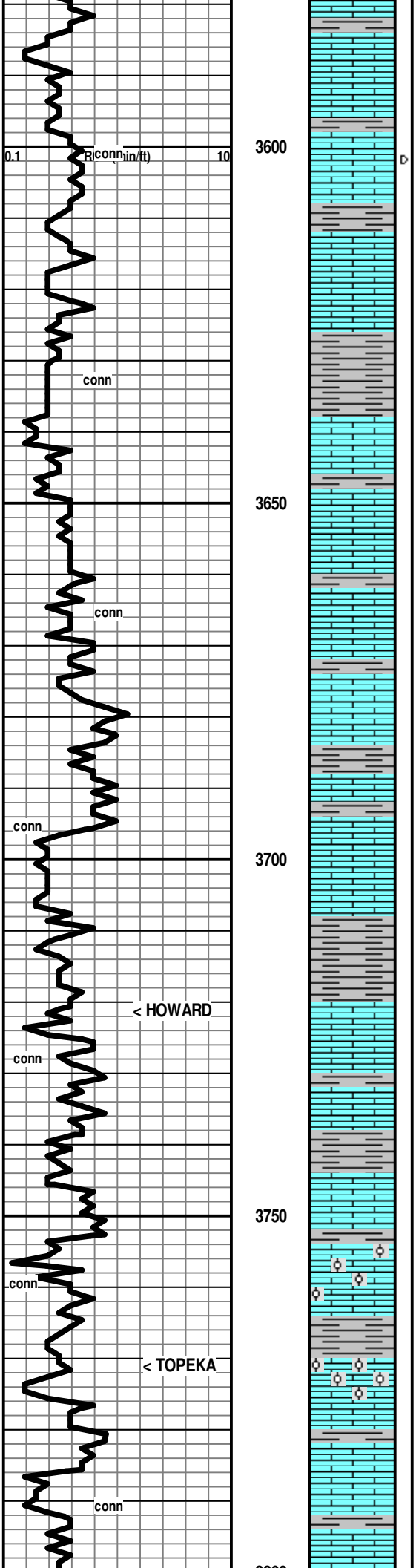






New Bit @ 3475 ft.

Pipe Strap @ 3475':
0.45 ft short!



90% Ls wh-cr, fn xln, pr xln por-dns, foss in pt, silty text in pt; 10% red-brn-grn-dk gy

50% Ls cr, fn xln, pr xln por to dns, silty in pt; 50% Siltstone, reddish to gy, calc to shaly

[Rr pcs with black spots of dead, gilsonite]

75% Ls sh-cr-pl gy, fn xln, dns to pr xln por, foss in pt (some weath'd to dk); 25% Sh red-gy-grnish, silty in pt

50% Sh red-gy-blk, carb in pt, silty in pt; 50% Ls wh-gy, fn xln, pr xln por, silty in pt foss,

60% Sh mostly gy-blk, carb in pt; 40% Ls sh-cr-gy, fn xln, pr xln por to dns, foss, silty in pt

90% Ls cr-gy, fn xln, mostly pr xln por to dns, some fr xln por with abund foss, silty text in pt, foss in pt; 10% Sh gy-grn

99% Ls wh-cr, fn xln, dns to pr xln por, chalky in pt, foss in pt

Mud Check: Drlg @ 3717'

Vis	Wt	WL	PV	YP
52	8.9	6.4	17	15
Chl	Hd	pH	LCM	Solids
2000	40	11.5	4	4.3

<---------- 3721 (-723)

85% Ls wh-cr, fn xln, pr-fr xln por in pt, dns in pt, chalky in pt, foss; 15% Sh gy-blk, silty to subcarb

7:00 AM, July 15, 2022

99% Ls wh-cr, fn xln, pr-fr xln por in pt, chalky in pt, foss

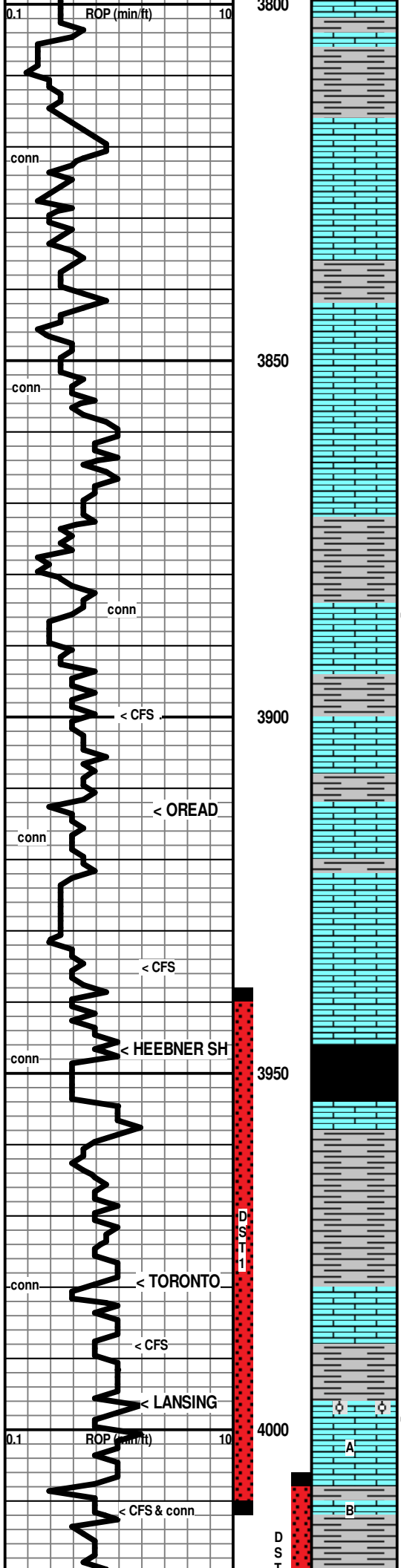
Ls wh-cr, fn xln, pr-fr xln por in pt, ool in pt (fn-md) with scatt interool pores

Sh reddish-brn-gy, silty to earthy text

<---------- 3771 (-723)

Ls wh, fn xln, pr-fr xln por, abund pp pores in pt, ool in pt with scatt interool pores

Ls wh, fn xln, chalky in pt, pr vis xln por in pt, silty text in abund, foss in pt to abund foss



Ls wh-cr, fn xln, pr-fr xln por in pt, abund pp pores, foss to abund foss

Sh abund, mostly red, some gy-grn, silty to earthy text, some Ls as above

Mostly Ls, wh. fn xln, mealy text in pt, fr-gd xln por in pt, abund pp pores, foss to abund foss; some shale as above

Sh gy-blk-grinish, silty in pt

Ls wh-cr, fn xln, chalky in pt, pr-fr xln por in pt, dns in pt, foss

Ls wh-cr, fn xln, chalky to dns in pt, some pr xln por, scatt sm vugs, foss

Ls wh-cr-tan, fn xln, chalky to dns in pt, some pr xln widely scatt sm vugs, por, foss

3890' spl: low % spl dk gy-black shale, carb in pt

Ls cr, fn xln, pr-fr xln por in pt, dns in pt, foss to abund foss

[No Odor, a few pcs/tray with spots and patches of dull fluor, with a few pcs per tray with spots and patches of dk brn stn, with some black gilson/asph dead oil, some v dk brn NVL oil, and trace of dk brn FO]

Mostly Ls wh-cr, fn xln, pr xln por, subchalky in pt, foss; some red-brn-dk gy shale

<---------- 3913 (-915)

Ls wh-cr, fn xln, pr-fr xln por in pt, foss to abund foss

Ls wh-cr, fn xln, pr-fr xln por, chalky in pt, silty/sucr text in pt, foss

Ls wh-cr, fn xln, pr-fr xln por, chalky in pt, foss

<---------- 3947 (-949)

Sh black, carb (Abund in 3960' spl)

Ls wh-cr, fn xln, dns, foss to abund foss

Sh red-gy-grnish, subsilty-silty in pt, some a shaley siltstone

<---------- 3979 (-981)

Ls wh-cr, fnxln, scatt pr xln por with scatt pp pores, abund foss in pt scatt interfoss pores

[No Odor, scatt dull spotty fluor, where porous- dk brn spotty Stn with sli shows of dk brn NVL and Trace shows of dk brn FO on crush]

Sh gy-pl grn-grn

<---------- 3996 (-998)

Ls wh, fn xln, mostly dns to pr xln por, with scatt interool pores & interxln pores, foss, ool in pt

[No Odor, Rr spots of dull fluor, where porous- dk brn-blk sptty stn of blk gilson/asph dead stn, with trace of spots of NVL & dk hvy FO on crush]

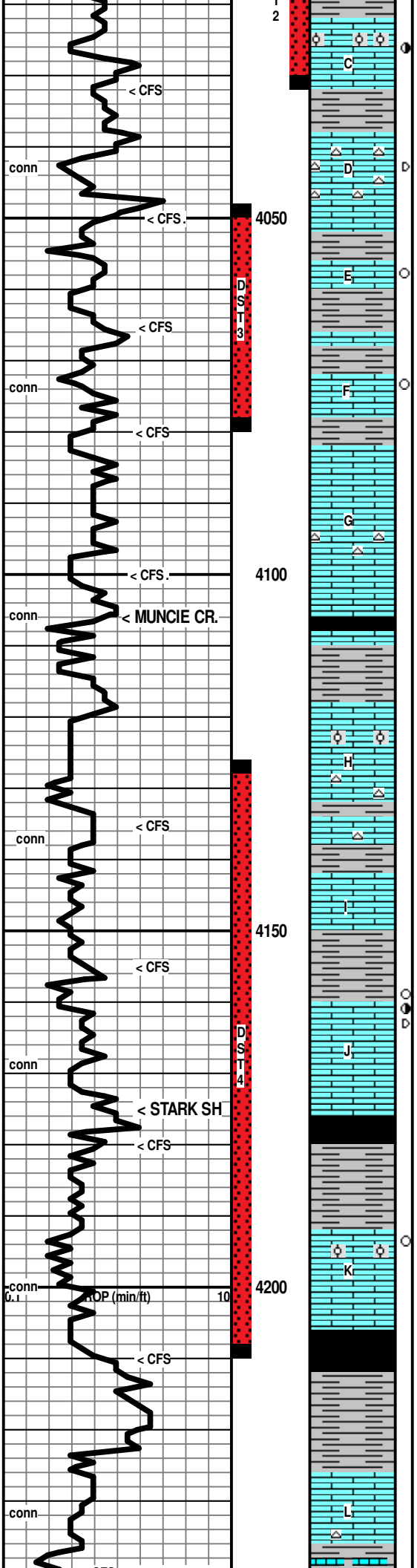
Sh red-gy-grn, subsilty text in pt

DST #1: 3939-4011 (Toronto, Lansing A)
Times: 15-30-10-out
Initial Open: Weak Surface Blow
Final Open: No Blow
Rec: 20' oil specked mud
IHP: 1974 FHP: 1954
IFP: 21-28 FFP: 31-34
ISIP: 1278 FSIP: NA
BHT: 119*F

Mud Check: TOOH for DST1 @ 4011':

Vis	Wt	WL	PV	YP
52	9.2	7.2	15	15
Chl	Hd	pH	LCM	Solids
2200	80	11.0	4	6.0

7:00 AM, July 16, 2022



Ls wh-gy, fn xln, some grain text, pr vis xln por, abund sm vugs & pp pores, foss, ool in pt, abund interool pores, abund sm foss mold pores, some embedded pyr

Show Descr. ---------->

Sh red-gy-grn

Ls wh-cr, fn xln, chalky in pt, dns in pt, pr vis xln por in pt, abund chert: fresh, wh-cr-or, subtransl-transl, some speckling of pyrite

[No Odor, No fluor, found a few pcs with a speck or two of blk asph (possibly from above?]

Sh gy

Ls wh, fn xln, dns with Rr patches of pr xln por, foss

[No Odor, No fluor, a few pcs per tray with spots of Dk brn/blk Stn, with Rr trace of FO on crush]

Sh red-gy-grn

Ls wh-cr, fn xln, chalky in pt, dns in pt, Rr patches of pr xln por, abund foss

[No Odor, No fluor, a few pcs with blk spots of Dead Stn, one pc with trace show of a microdrop of FO]

Ls wh-pl gy, fn xln, mostly dns, some scatt pr xln por, subchalky in pt

Ls wh-pl gy, fn xln, mostly dns, some scatt pr xln por, subchalky in pt, chert: fresh, wh, subopaq

<---------- 4106 (-1108)

Sh black, carb

Sh mostly red, some gy-grn

Ls wh-cr-pl gy , f-vfn xln, mostly dns & firm, some chalky & softer, some pr xln por, ool in pt(well cem), abund foss in pt, chert: fresh, wh subtransl

Ls as above

Sh gy-grnish

Ls cr-tan, fn xln, dns, abund silty text, foss with Rr interfoss pores

Sh red-gy-grn

Ls wh-cr-tan, fn xln, chalky in pt, pr xln por in pt, Rr scatt sm vugs, dns in pt, foss

[No Odor, No fluor, Low % pcs with dk Brn-Blk spotty & patchy Stn, of black asph-tarry oil, dk brn Hvy Deadish oil, & a few pcs with show of dk brn Hvy FO on crush]

Ls wh, fn xln, subchalky to dns, foss in pt

<---------- 4175 (-1177)

Sh dk gy-black, carb in pt

Sh red-gy-grn, silty in pt, calc in pt

Ls wh-cr-pl gy,fn xln, mostly dns, some chalky, some pr xln por, foss in pt, low % ool (well cem)

[No Odor, No fluor, found a few pcs total with asph/tarry stn, NSFO, Possibly from J zone above?]

Sh dk gy-black, carb (washes gy)

Sh red-pink-cr-gy, mostly mushy and pastey, calc chalky

Ls wh-cr, fn xln, mostly dns, some chalky & softer, Rr pr xln por, sli foss in pt, Rr pcs fresh chert

Sh red-gy-grn

[Mod Odor, scatt dull patchy fluor, high% pcs with spotty-patchy brn-dk brn stn, sli-fr shows of dk brn Hvy Deadish-NVL oil and sil shows of dk brn FO on crush, scatt v sli gassy on crush]

7:00 AM, July 17,2022

Mud Check: TIH after DST2 @ 4032':

Vis	Wt	WL	PV	YP
54	9.3	9.6	18	15
Chl	Hd	pH	LCM	Solids
4100	120	10.0	4	6.4

DST #2: 4006-4032 (Lansing C)
Times: 15-30-60-90
Initial Open: Mod Blow, built to 6" i.b.
Final Open: Mod Blow, built to 6" i.b.
Rec: 350' Total Fluid
230' Water (47,000 ppm Chl)
120' MCW 60%w 40%m
IHP: 2026 FHP: 1958
IFP: 39-112 FFP: 119-201
ISIP: 983 FSIP: 989
BHT: 124*F

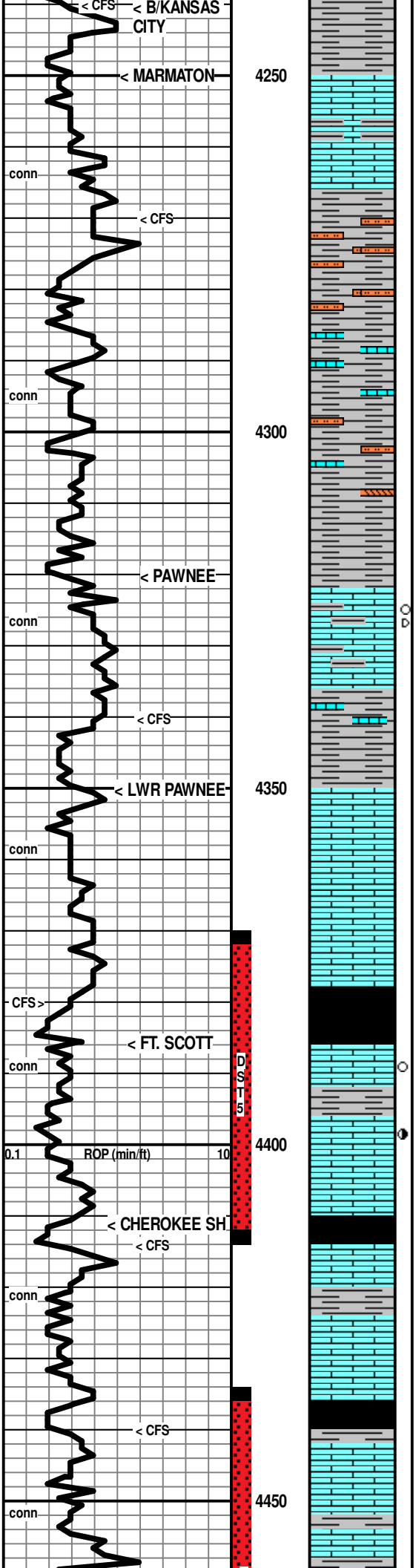
DST #3: 4048-4080 (Lansing E,F)
Times: 15-30-10-out
Initial Open: Wk Surface Blow, died 8 min.
Final Open: No Blow
Rec: 1' mud
IHP: 2009 FHP: 1973
IFP: 19-18 FFP: 19-18
ISIP: 34 FSIP: NA
BHT: 115*F

Mud Check: Drlg @ 4117':

Vis	Wt	WL	PV	YP
71	9.2	9.2	20	19
Chl	Hd	pH	LCM	Solids
3600	40	11.0	3	5.8

7:00 AM, July 18, 2022

DST #4: 4127-4210 (LKC J,K)
Times: 15-30-10-out
Initial Open: Wk Blow, built to 1/4" i.b.
Final Open: No Blow
Rec: 15' mud/oil spots
IHP: 2101 FHP: 2113
IFP: 25-27 FFP: 29-29
ISIP: 949 FSIP: NA
BHT: 116*F



<--------- 4240 (-1242)

Sh mostly gy, foss, some red-grn

Sh red-gy-grn

<--------- 4250 (-1252)

Ls wh-cr, fn xln, dns to pr xln por, subchalky in pt, grainy text in pt, (possibly some interbedding with shales & sdy ls) foss

Mud Check: Drlg @ 4263':

Vis	Wt	WL	PV	YP
67	9.3	8.8	16	18
Chl	Hd	pH	LCM	Solids
3200	80	10.5	3	6.5

Sh red-gy-grn, silty to earthy

4280' spl: 75% Sh mostly gy, some red-grn; 25% Ls wh-cr, fn xln, chalky in pt, dns in pt, sli foss in pt

7:00 AM, July 19, 2022

4290' & 4300' spls: 70% Sh mostly gy, some red-grn; 20% Ls wh-cr, fn xln, chalky in pt, dns in pt, sli foss in pt; 10% Siltstone wh-gy, calc to shaley

4310' spl: 70% Shale red-gy-grn-yell, earthy to argil to silty; 30% Ls wh-cr, fn xln, subchalky to dns, shaley in pt

4320' spl: 80% Shale red-gy-grn-yell, earthy to argil to silty; 20% Ls wh-cr, fn xln, subchalky to dns, shaley in pt

4330' spl: 50% Sh red-gy-dk gy-grn-yell; 50% Ls wh-cr, fn xln, pr vis xln por, Rr scatt pp pores, foss to abund foss

<--------- 4320 (-1322)

Ls wh-cr, fn xln, pr vis xln por, Rr scatt pp pores, chalky & soft in pt, foss to abund foss (4340' spl 70% Shales as above!)

4340' 20&40min spls: Ls as above (80% Shales as above0

[Found 3 pcs in 4330-4340' & CFS spls, with spots of blk tarry dead oil. (looked like J zone pcs???) Found a few other similar pcs along the way, above]

4350' & 4360' spls: 90% Shales red-gy-grn-yell, silty in pt to shaley siltstone; 10% Ls wh-cr, chalky to dns, foss

<--------- 4350 (-1352)

4370' spl: 85% Ls wh-cr, fn xln, dns in pt, chalky in pt, pr xln por in pt, foss to abund foss, micro-ool in pt; 15% Shales

DST #5: 4370-4414 (Ft. Scott)
Times: 15-30-10-out
Initial Open: Wk Blow, built to 1/4" i.b.
FInal Open: No Blow
Rec: 10' mud with oil spots
IHP: 2262 FHP: 2229
IFP: 33-34 FFP: 38-38
ISIP: 1111 FSIP: NA
BHT: 122*F

Ls wh-cr-pl gy, fn xln, mostly dns & firm, some softer & chalky, foss to abund foss; 05% shales

Sh black, carb (abund in 4380' 20-min spl)

<--------- 4386 (-1388)

Ls wh-cr, fn xln, chalky to dns, foss in pt

[No Odor, scatt dull-mod spotty-patchy fluor, few pcs per tray with dull brn stn, NSFO]

Sh gy-grnish

Ls wh-cr-tan, fn xln, pr xln por in pt, scatt patches of pp pores, Rr small vugs, chalky in pt, dns in pt, foss to abund foss

[V Fnt Odor, Scatt Dull-mod fluor, moderately low % pcs with spotty-patchy brn stn, Trace to sli shows of lt brn FO & Brn NVL oil, few pcs v. sli gassy]

Show Descr. ---------->

Ls cr, vfn xln, dns, sli foss

<--------- 4411 (-1413)

Sh black, carb (arrived in 4414' 20-min spl)

Ls wh-cr-tan, fn xln, subchalky in pt, pr xln por in pt, dns in pt, foss

Mud Check: Drlg @ 4422':

Vis	Wt	WL	PV	YP
61	9.4	9.6	18	21
Chl	Hd	pH	LCM	Solids
3700	120	10.0	3	7.4

Sh red-gy

Ls wh-cr, abund chalky-subchalky, abund dns, some ebedded calc xls & pyrite, foss in pt

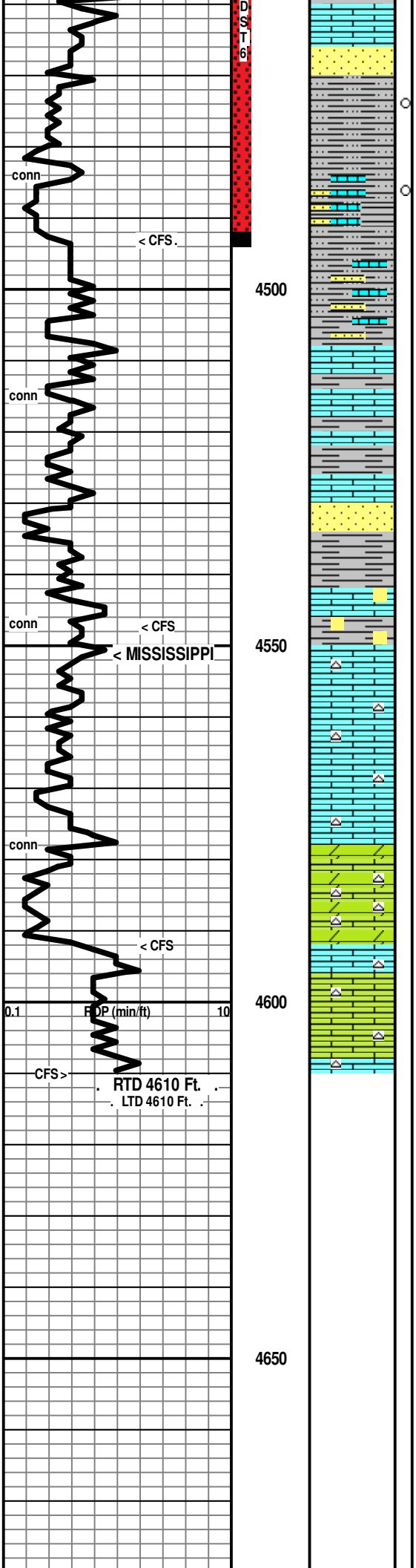
Sh dk gy-black, carb in pt

Ls wh-cr, fn xln, mostly dns, some chalky, foss; minor am't of shale

7:00 AM, July 20,2022

Ls wh-cr, fn xln, mostly dns, some chalky, scatt calc patches, foss; minor am't of shale, gy-grn

DST #6: 4435-4493 (Cherokee)
Times: 15-30-10-out



Ls wh-cr, fn xln, chalky to dns with scatt pr xln por, foss

4480' spl: Abund Sd glassy-wh-cr-tan, fn grn, subrd, fr-gd sort, fr-gd fri, pr-fr-gd intergrnlr por, calc in pt, glauc in pt, rd'd-subrd clsuters, some loose grns; some grn shale-silty in pt, some ls as above

[No Odor, No fluor, NSFO, scatt dk micro-spots stuck to sd grns of questionable content (gilson specks? Oil specks? shale specks?) Poss scatt patches of Fnt lt tan stn]

4493' spls: Sand clusters as above, with incr'd shale % red-gy-grn, subwaxy-subsilty in pt, mod am't of Ls wh, dns, chalky in pt, sdy in pt

[No distinguishable show descr. from above]

4500' spl: 90% Sh mostly red, some gy-grn; some Ls
4510' spl: 75% Sh red-gy-grn-yell, silty in pt; 25% Ls wh, fn xln, chalky to dns

4520' spl: 60% Ls wh-cr-tan, vfn-fn xln, dns to chalky; 40% Sh red-gy-grn-brn, silty in pt

4530' spl: 65% Sh red-gy-grn; 35% Ls wh, fn xln, chalky to dns, sdy in pt

4540' spl: 65% Sh mostly red with gy-grn (washes red); 30% Ls wh, fn xln, chalky to dns, sdy in pt; 05% Sd/quartz glassy to yellowish, loose crs subrd grains and sharper quartz frags, some md-crs grn clusters, with red sh cem in pt

4547' spl: 85% Sh red-brn-or-gy-grn-yell-purple, waxy-subwaxy-silty-sdy; 15% as above, some md grn sd clusters, subrd to subanglr

4547' 20-min spl: 65% Ls wh, vfn-fn xln, dns to chalky, sdy to cherty

<---------- 4551 (-1553)

4560'spl: 50% Ls wh-cr, fnx ln dns, cherty, fresh wh-cr; 50% Sh red-gy-grn-yell-purple

4570' spl: 90% Ls wh, vfn-fn xln, dns, cherty (fresh, wh, opaq); 10% Sh as above

Ls wh, vfn-fnxln, dns, vitreous text in pt, abund chert: fresh, wh-gy, subtransl-opaq, foss in pt, scatt embedded pyrite

Dol-Dol Ls wh-cr, vfn-fn xln, sucrosic text, scatt dk grn glauc specks, abund fresh wh-gy chert, subtransl-transl to opaq, foss in pt

Ls cr, vfn xln, dns, sli foss in pt, abund chert: fresh, wh-cr, mostly opaq

Dol Ls to Limey Dol, wh-cr, fn xln, subsucr-sucr in pt, pr xln por to dns, scatt dk grn glauc specks in pt, abund chert

Times: 15-30-15-cut
Initial Open: Wk Blow, built to 3/4" i.b., then died back to surface blow
Final Open: No Blow
Rec: 20' mud
IHP: 2232 FHP: 2210
IFP: 31-29 FFP: 31-31
ISIP: 83 FSIP: NA
BHT: 122*F

RTD, 4610 Ft. Reached at 4:45 AM, July 21, 2022!

	4700			

SWIFT Services, Inc.

P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Invoice

DATE	INVOICE #
7/21/2022	35536

BILL TO

Carmen Schmitt, Inc.
P. O. Box 47
915 Harrison
Great Bend, KS 67530-0047

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-17	Higerd	Thomas	Murfin Rig #8	Oil	Development	Rotary PTA	David E

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	100	Miles	7.00	700.00
576D-P	Pump Charge - PTA	1	Job	1,100.00	1,100.00
290	D-Air	3	Gallon(s)	42.00	126.00T
410-8	8 5/8" Top Plug	1	Each	150.00	150.00T
328-4	60/40 Pozmix (4% Gel)	255	Sacks	12.50	3,187.50T
581D	Service Charge Cement	255	Sacks	2.00	510.00
583D	Drayage	1,028	Ton Miles	1.00	1,028.00
	Subtotal				6,801.50
	Sales Tax Thomas County			8.25%	285.74

710/
20074.0117
Well Me
BCP Cement to Plug

We Appreciate Your Business!

Total $7,087.24

SWIFT Services, Inc.

CHARGE TO: Carmen Schmitt
ADDRESS
CITY, STATE, ZIP CODE

TICKET 35536

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Hays Ks	1-17	Higerd	Thomas	KS		7-21-22	
2. Ness City	TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR Murfin	RIG NAME/NO. Rig # 8	SHIPPED VIA CT	DELIVERED TO location	ORDER NO.	
3.	WELL TYPE oil	WELL CATEGORY development	JOB PURPOSE Rotary PTA		WELL PERMIT NO.	WELL LOCATION	
4.							
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		1			MILEAGE Tek # 111	100	mi			7.00	700.00
576 P		1			Pump Charge - PTA	1	EA			1100.00	1100.00
290		1			D-Air	3	Gal			42.00	126.00
410		1			Top plug - 8 5/8	1	EA			150.00	150.00
328-4		2			60/40 pozmix 4% gel	255	sx			12.50	3187.50
581		2			Service Charge Cmt	255	sx			2.00	510.00
583		2			Drayage	1028	tm			1.00	1028.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED | TIME SIGNED ☐ A.M. ☐ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	6801.50
Thomas	285.74
TOTAL	7087.24

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR David Edgerton | APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE	PAGE NO.
7-21-22	

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Carmen Schmitt	1-17	Higerd	PTA	35536

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1530							on location
	1640							1st Plug @ 2675
		5	10			400		pump wtr spacer
		5	13			400		mix cmt @ 13.0 ppg - 50 sx
		5	3.5			400		Disp w/ wtr
								Disp w/ mud - 3 min
	1730							2nd plug @ 1848
		5	7					pump wtr spacer
		5	26					mix cmt - 100 sx
		5	2.5					Disp w/ wtr
								Disp w/ mud - 1.5 min
	1840							3rd plug @ 315
		5	5					pump wtr spacer
		5	13					mix cmt - 50 sx
		5	1					Disp
								4th plug @ 40
	1920	1	2.5			0		mix cmt - 10 sx
	1925	2.5	8			0		plug rathole - 30 sx
	1930	2.5	4			0		plug mouse hole - 15 sx
								Job Complete
								Thanks
								David, Seth & Isaac