

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Iuka-Carmi Development LLC
Well Name	SESSLER 2
Doc ID	1732711

All Electric Logs Run

Borehole Compensated
Microresistivity
Dual Induction
Dual Comp Porosity
Cement Bod Log

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. **3088**

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3/29/23	27	20	11	Barton	Kansas		5:15pm
				Location Great Bend 55 12 E 18 S E into			

Lease	Well No.	Owner	
Sessler	2	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Contractor	Type Job	Charge To	
Fossall Drilling	Surface	Inka-Carmi Development LLC	
Hole Size	T.D.	Street	
12 1/4	270'		
Csg.	Depth	City	
8 5/8	268'	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered 275 80/20 3%cc 2%ge 1 1/2 #	
Cement Left in Csg.	Shoe Joint		
15'	15'		
Meas Line	Displace		
	16		

EQUIPMENT

Pumptrk	No.	Cementer	Common
18		Helper Tim	220
Bulktrk	No.	Driver	Poz. Mix
9		Doug	55
Bulktrk	No.	Driver	Gel.
PU		David	5
			Calcium
			8

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 125#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Ran 8 5/8 and est. circulation	Sand
Cemented with 275 SKS	Handling 288
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
Cement Did Circulate	Float Shoe
	Latch Down

Pumptrk Charge	Surface	Tax
Mileage	18	Discount
THANKS		Total Charge

X Signature *[Handwritten Signature]*

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price shall schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. **3486**

Date **3-28-23** Sec. **27** Twp. **20** Range **11** County **Barton** State **Ks** On Location **Great Bend - 55 to 50th Rd, 12E,** Finish **2:30 PM**

Lease **Sessler** Well No. **2** Owner **1/8 S, E/Intro**

Contractor **Fossil #5** To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job **Long string** Charge To **Iuka - Carmi Development**

Hole Size **7 7/8"** T.D. **3470'** Depth **3460'** Street _____ City _____ State _____

Csg. **5 1/2" 14#** Depth _____ City _____ State _____

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. **21.03'** Shoe Joint **21.03'** Cement Amount Ordered **180 Corn 10% Salt 5%**

Meas Line _____ Displace **84 Bbls Gilsonite - 500 gal mud Clear 48**

EQUIPMENT

Pumptrk 18	No.	Cementer Tim	Helper	Common 180
Bulktrk 3	No.	Driver Bryant	Driver	Poz. Mix
Bulktrk p.u.	No.	Driver Rick	Driver	Gel.
				Calcium

JOB SERVICES & REMARKS

Remarks: _____
 Rat Hole **30 5x** Salt **15**
 Mouse Hole **15 5x** Flowseal
 Centralizers **1, 3, 5, 7, 9, 11** Kol-Seal **800 #**
 Baskets **1, 43** Mud CLR 48 **500 gal**
 D/V or Port Collar **pipe on bottom, break** Sand
 Circulation Plug **Rat + mouseholes** Handling **193**
 Cement **5 1/2" w/ 135 5x Cement.** Mileage _____

FLOAT EQUIPMENT

Shut down wash pump + lines
 Displaced plug w/ **84 BBLs 1120.** Guide Shoe **1" Limit clamp**
 Released - **float held** Centralizer **6**
 Lift pressure **700 #.** Baskets **2**
 Land plug **1500 #.** AFU Inserts _____
 Float Shoe **/**
 Latch Down **/**

Pumped **500 gal Flush ahead of cement.**

Pumptrk Charge **prod string**
 Mileage **18**

Signature **Keith C. Bates** Thanks

Tax _____
 Discount _____
 Total Charge _____

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- **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

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(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY, AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



DRILL STEM TEST REPORT

Prepared For: **Iuka-Carmi Development LLC**

PO Box 847
Pratt, KS. 67124

ATTN: Sean Deenihan

Sessler #2

27-20s-11w Barton,KS

Start Date: 2023.03.25 @ 08:04:48

End Date: 2023.03.25 @ 15:01:48

Job Ticket #: 70603 DST #: 1

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

Printed: 2023.03.29 @ 16:59:51



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70603

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.03.25 @ 08:04:48

GENERAL INFORMATION:

Formation: **LKC A - C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:06:48

Time Test Ended: 15:01:48

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

Interval: 3072.00 ft (KB) To 3125.00 ft (KB) (TVD)

Reference Elevations: 1775.00 ft (KB)

Total Depth: 3125.00 ft (KB) (TVD)

1767.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: 87.16 psig @ 3073.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.03.25 End Date: 2023.03.25

Last Calib.: 2023.03.25

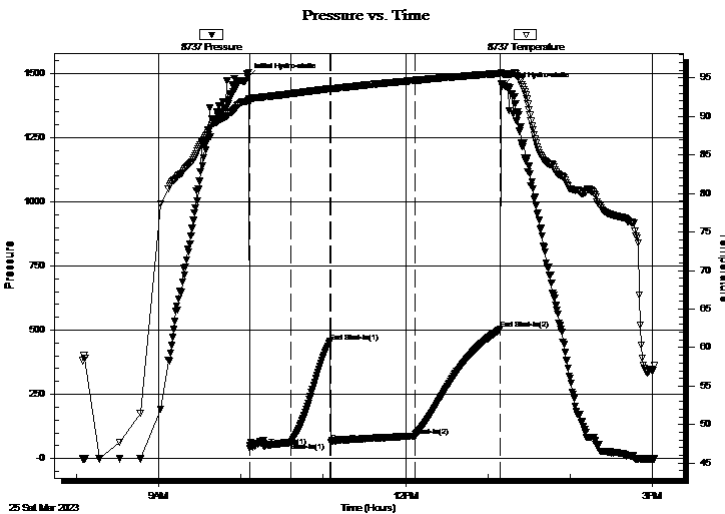
Start Time: 08:05:03 End Time: 15:01:48

Time On Btm: 2023.03.25 @ 10:05:03

Time Off Btm: 2023.03.25 @ 13:10:18

TEST COMMENT: IF: Strong Blow . Built to 11.78". (30)
IS: No Blow . (30)
FF: Fair-Strong Blow . Built to 10.52". (60)
FS: No Blow . (60)

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1483.74	92.08	Initial Hydro-static
2	49.03	92.14	Open To Flow (1)
32	63.06	92.93	Shut-In(1)
60	454.92	93.61	End Shut-In(1)
61	63.83	93.53	Open To Flow (2)
122	87.16	94.67	Shut-In(2)
184	503.18	95.57	End Shut-In(2)
186	1448.97	95.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 27%g 13%o 5%w 55%m	0.46
45.00	GO spec M 1%g 99%m	0.34
0.00	235' GIP 100%g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70603

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.03.25 @ 08:04:48

Tool Information

Drill Pipe:	Length: 2935.00 ft	Diameter: 3.80 inches	Volume: 41.17 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 42.08 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3072.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer on Request in String.

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3047.00	
Shut In Tool	5.00			3052.00	
Hydraulic tool	5.00			3057.00	
EMT	3.00			3060.00	
Safety Joint	3.00			3063.00	
Packer	5.00			3068.00	26.00 Bottom Of Top Packer
Packer	4.00			3072.00	
Stubb	1.00			3073.00	
Recorder	0.00	8788	Inside	3073.00	
Recorder	0.00	8737	Outside	3073.00	
Perforations	2.00			3075.00	
Change Over Sub	1.00			3076.00	
Blank Spacing	31.00			3107.00	
Change Over Sub	1.00			3108.00	
Perforations	14.00			3122.00	
Bullnose	3.00			3125.00	53.00 Bottom Packers & Anchor
Total Tool Length:	79.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70603

DST#: 1

ATTN: Sean Deenihan

Test Start: 2023.03.25 @ 08:04:48

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 5.38 in³
Resistivity: 4100.00 ohm.m
Salinity: ppm
Filter Cake: 0.20 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 4100 ppm

Recovery Information

Recovery Table

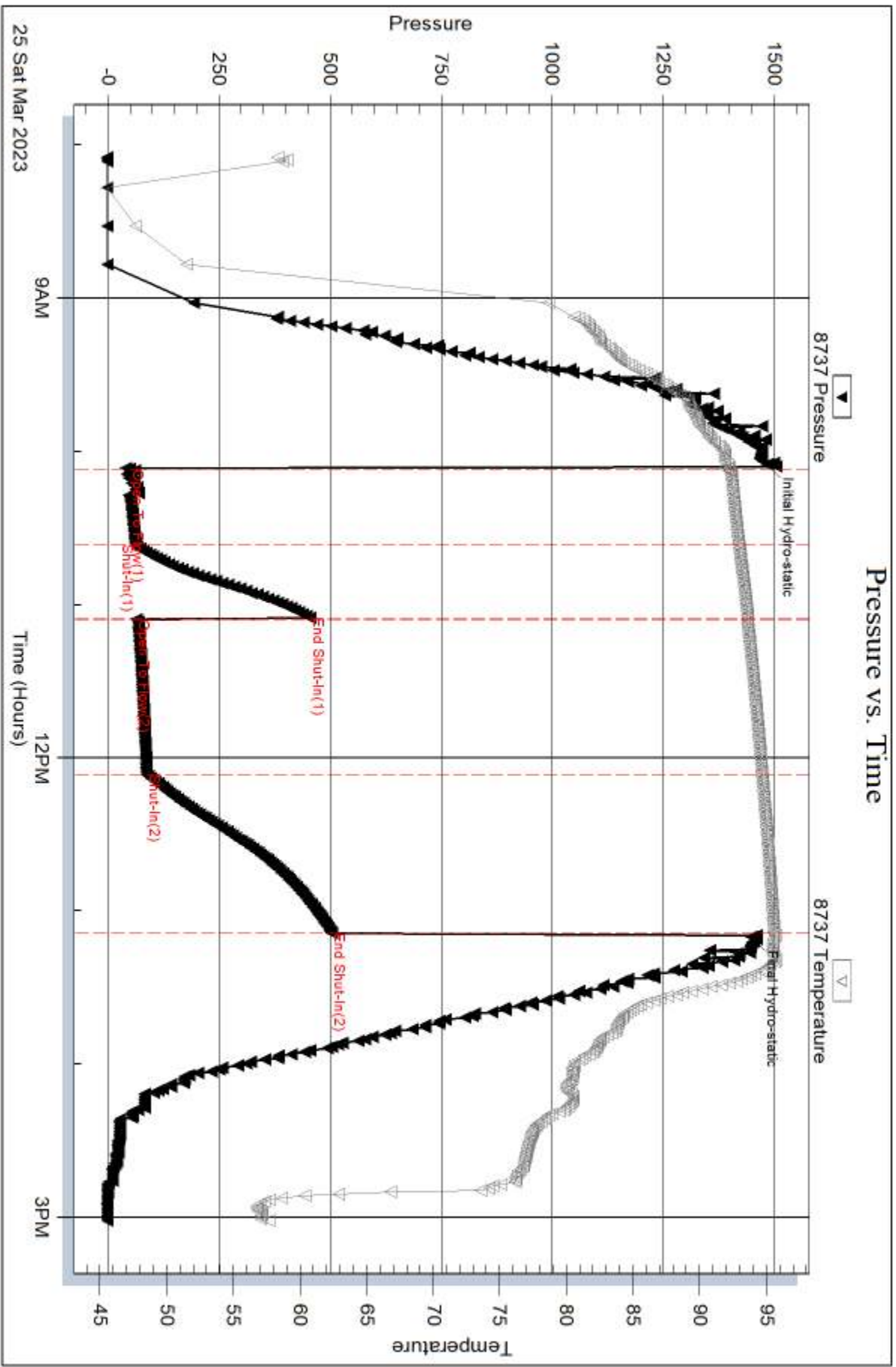
Length ft	Description	Volume bbl
60.00	GOWCM 27%g 13%o 5%w 55%m	0.457
45.00	GO spec M 1%g 99%m	0.343
0.00	235' GIP 100%g	0.000

Total Length: 105.00 ft Total Volume: 0.800 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

Recovery Comments: 235 Feet of Gas in Pipe.



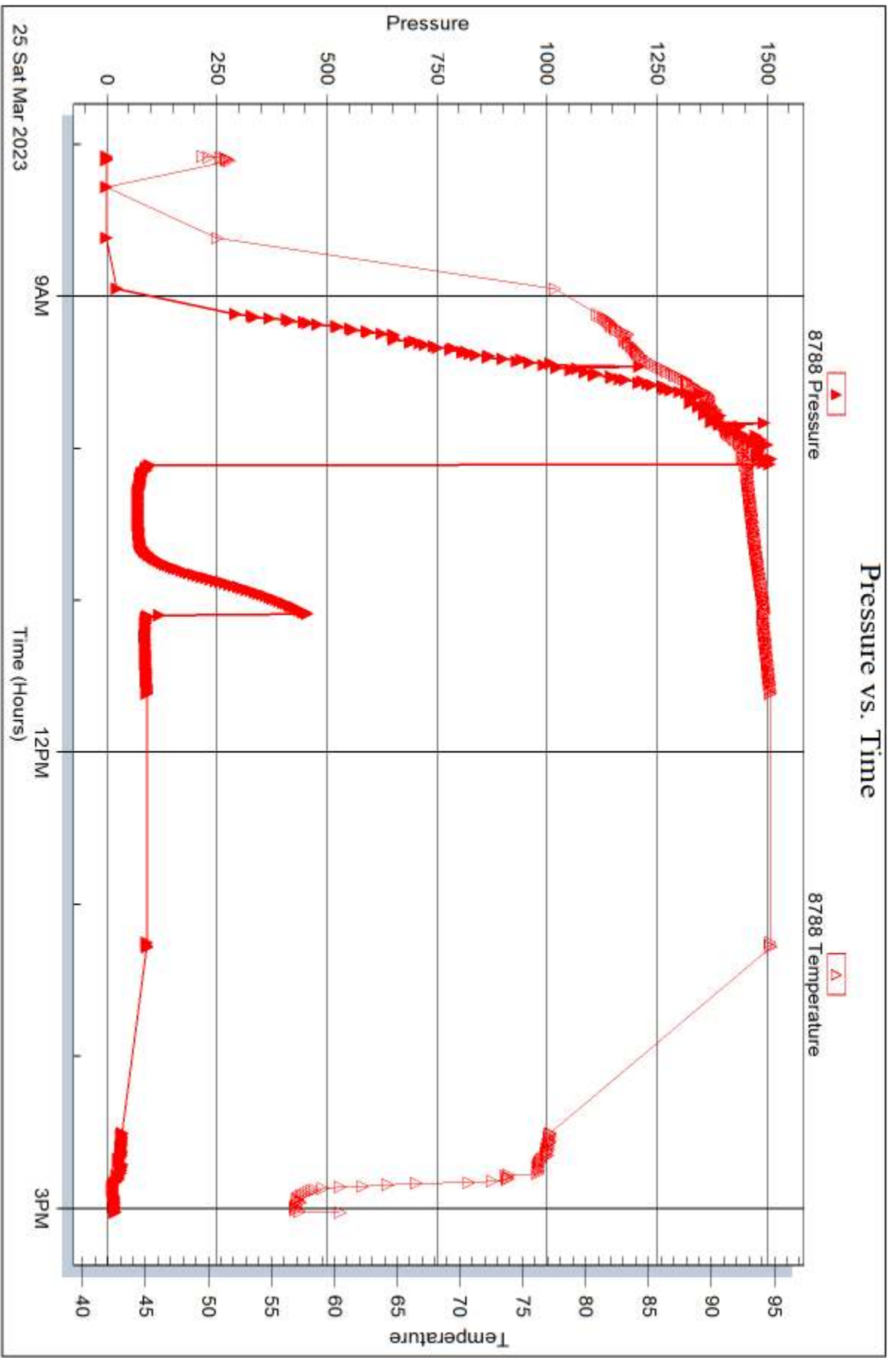
Serial #: 8788

Inside

Iuka-Carni Development LLC

Sessler #2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Iuka-Carmi Development LLC**

PO Box 847
Pratt, KS. 67124

ATTN: Sean Deenihan

Sessler #2

27-20s-11w Barton,KS

Start Date: 2023.03.25 @ 22:53:06

End Date: 2023.03.26 @ 04:08:36

Job Ticket #: 70604 DST #: 2

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

Printed: 2023.03.29 @ 16:59:11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70604

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.03.25 @ 22:53:06

GENERAL INFORMATION:

Formation: **LKC E - G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:53:51

Time Test Ended: 04:08:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3123.00 ft (KB) To 3154.00 ft (KB) (TVD)

Reference Elevations: 1775.00 ft (KB)

Total Depth: 3154.00 ft (KB) (TVD)

1767.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8788

Inside

Press@RunDepth: 30.89 psig @ 3124.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.03.25

End Date:

2023.03.26

Last Calib.:

2023.03.26

Start Time: 22:53:11

End Time:

04:08:35

Time On Btm:

2023.03.26 @ 00:52:21

Time Off Btm:

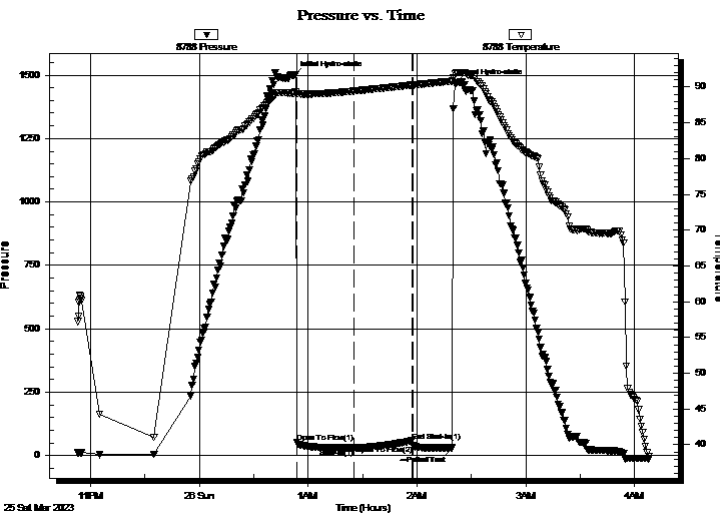
2023.03.26 @ 02:20:51

TEST COMMENT: IF: Weak Blow . Built to 1/2", (.61") in the Bucket. (30)

IS: No Blow . (30)

FF: No Blow . Dead. Pulled test after 22 mins. (22)

FS:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1498.47	89.12	Initial Hydro-static
2	52.53	89.05	Open To Flow (1)
33	30.89	89.43	Shut-In(1)
65	58.63	90.27	End Shut-In(1)
66	40.26	90.27	Open To Flow (2)
88	30.84	90.83	--Pulled Test
89	1464.85	91.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	DM 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

luka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70604

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.03.25 @ 22:53:06

GENERAL INFORMATION:

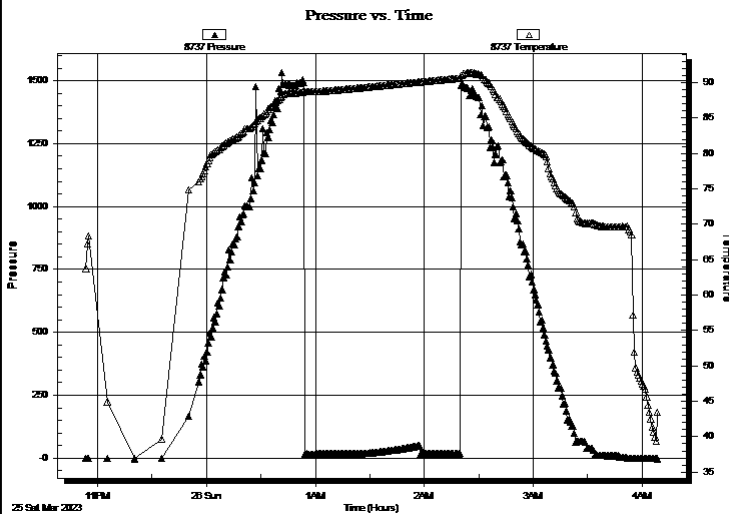
Formation: **LKC E - G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:53:51
 Time Test Ended: 04:08:36
 Interval: **3123.00 ft (KB) To 3154.00 ft (KB) (TVD)**
 Total Depth: 3154.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68
 Reference Elevations: 1775.00 ft (KB)
 1767.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8737

Outside

Press@RunDepth: psig @ 3124.00 ft (KB)
 Start Date: 2023.03.25 End Date: 2023.03.26
 Start Time: 22:53:32 End Time: 04:08:47
 Capacity: 8000.00 psig
 Last Calib.: 2023.03.26
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak Blow . Built to 1/2", (.61") in the Bucket. (30)
 IS: No Blow . (30)
 FF: No Blow . Dead. Pulled test after 22 mins. (22)
 FS:



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	DM 100% m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70604

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.03.25 @ 22:53:06

Tool Information

Drill Pipe:	Length: 2998.00 ft	Diameter: 3.80 inches	Volume: 42.05 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 42.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3123.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3098.00	
Shut In Tool	5.00			3103.00	
Hydraulic tool	5.00			3108.00	
EMT	3.00			3111.00	
Safety Joint	3.00			3114.00	
Packer	5.00			3119.00	26.00 Bottom Of Top Packer
Packer	4.00			3123.00	
Stubb	1.00			3124.00	
Recorder	0.00	8788	Inside	3124.00	
Recorder	0.00	8737	Outside	3124.00	
Perforations	27.00			3151.00	
Bullnose	3.00			3154.00	31.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70604

DST#: 2

ATTN: Sean Deenihan

Test Start: 2023.03.25 @ 22:53:06

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:

4100 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: 4100.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	DM 100%m	0.023

Total Length: 3.00 ft Total Volume: 0.023 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: Shale Packer Requested in string.

Serial #: 8788

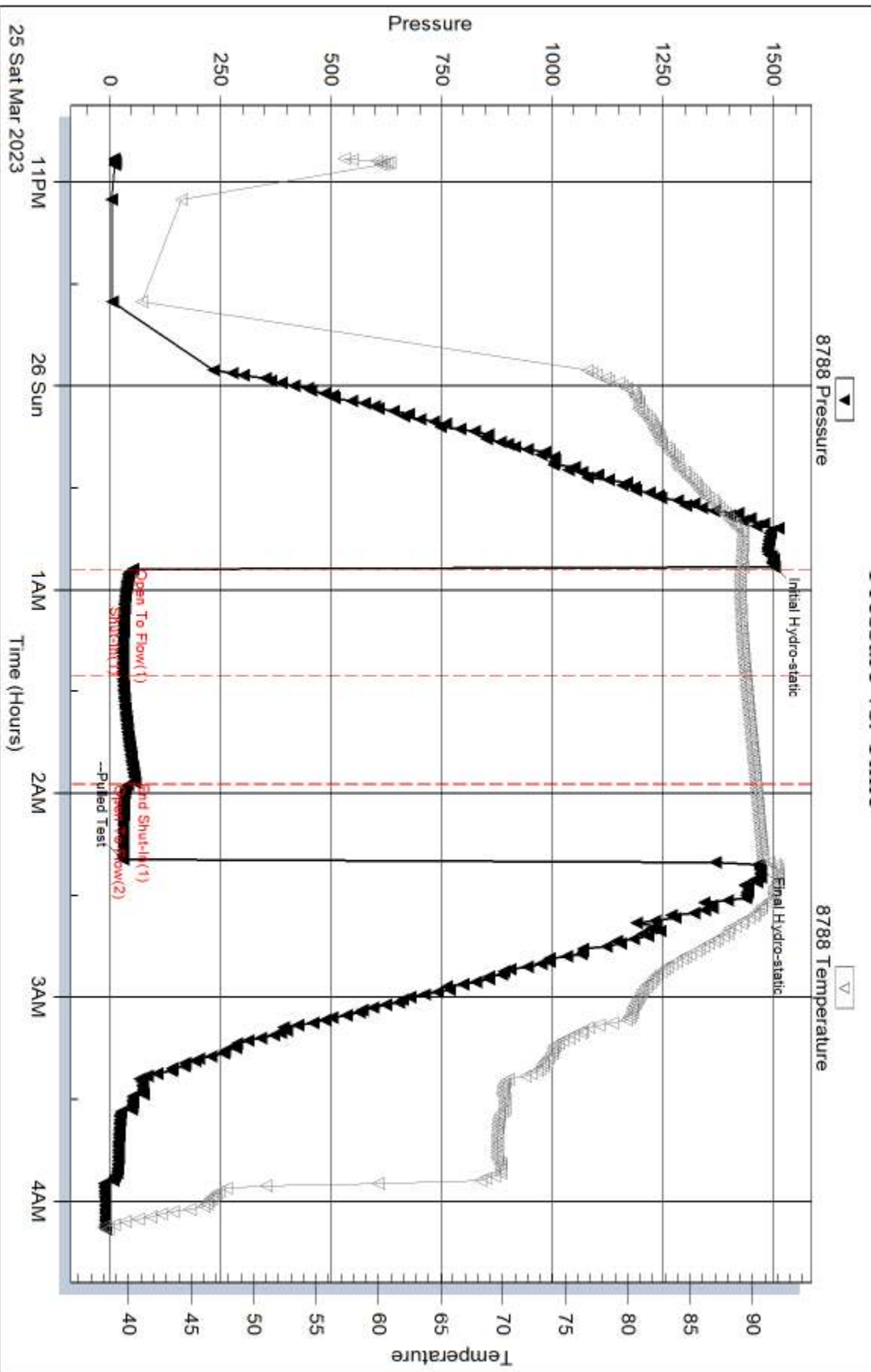
Inside

Iuka-Carmi Development LLC

Sessler #2

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 70604

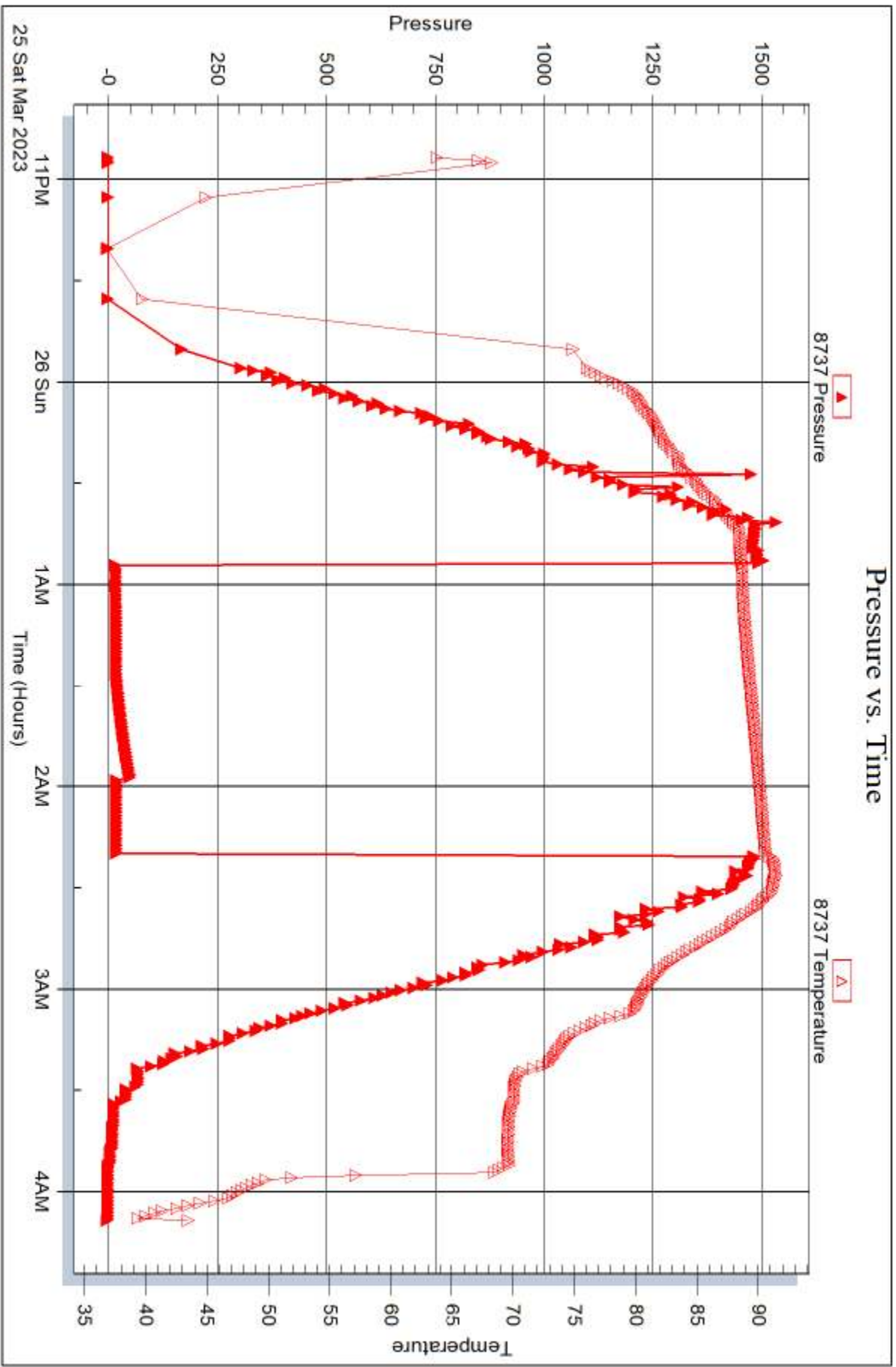
Printed: 2023.03.29 @ 16:59:11

Serial #: 8737

Outside Iuka-Carni Development LLC

Sessler #2

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Iuka-Carmi Development LLC**

PO Box 847
Pratt, KS. 67124

ATTN: Sean Deenihan

Sessler #2

27-20s-11w Barton,KS

Start Date: 2023.03.26 @ 10:22:26

End Date: 2023.03.26 @ 16:24:26

Job Ticket #: 70605 DST #: 3

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

Printed: 2023.03.29 @ 16:58:40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70605

DST#: 3

ATTN: Sean Deenihan

Test Start: 2023.03.26 @ 10:22:26

GENERAL INFORMATION:

Formation: **LKC G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:11

Time Test Ended: 16:24:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3154.00 ft (KB) To 3183.00 ft (KB) (TVD)

Reference Elevations: 1775.00 ft (KB)

Total Depth: 3183.00 ft (KB) (TVD)

1767.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8788

Inside

Press@RunDepth: 44.94 psig @ 3155.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.03.26

End Date:

2023.03.26

Last Calib.:

2023.03.26

Start Time: 10:22:31

End Time:

16:24:25

Time On Btm:

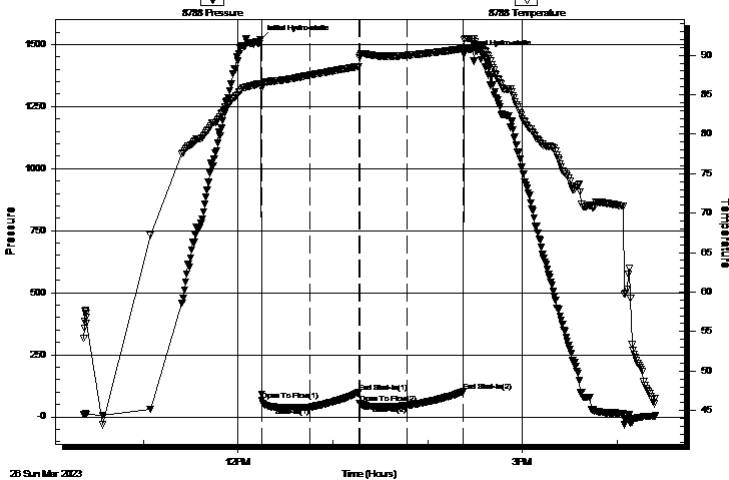
2023.03.26 @ 12:14:11

Time Off Btm:

2023.03.26 @ 14:23:11

TEST COMMENT: IF: Weak Blow . Built to 2 1/4", in the Bucket. (30)
IS: No Blow . (30)
FF: Weak blow . Built to 1 1/4", in the Bucket. (30)
FS: No Blow . (30)

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1520.19	86.41	Initial Hydro-static
1	65.22	86.22	Open To Flow (1)
32	38.40	87.48	Shut-In(1)
63	98.20	88.59	End Shut-In(1)
63	55.25	89.75	Open To Flow (2)
93	44.94	89.99	Shut-In(2)
129	101.22	90.81	End Shut-In(2)
129	1458.68	91.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	GV/SOCM 1%g 1%o 98%m	0.08
0.00	80' GIP 100%g	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

luka-Carmi Development LLC

27-20s-11w Barton, KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70605 **DST#: 3**

ATTN: Sean Deenihan

Test Start: 2023.03.26 @ 10:22:26

GENERAL INFORMATION:

Formation: **LKC G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:11

Time Test Ended: 16:24:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: **3154.00 ft (KB) To 3183.00 ft (KB) (TVD)**

Total Depth: 3183.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1775.00 ft (KB)

1767.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8737**

Outside

Press@RunDepth: psig @ 3155.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.03.26

End Date:

2023.03.26

Last Calib.:

2023.03.26

Start Time: 10:22:53

End Time:

16:24:53

Time On Btm:

Time Off Btm:

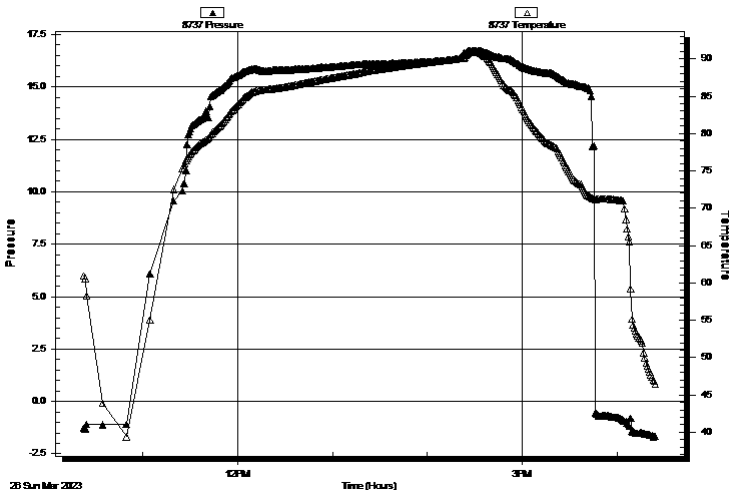
TEST COMMENT: IF: Weak Blow . Built to 2 1/4", in the Bucket. (30)

IS: No Blow . (30)

FF: Weak blow . Built to 1 1/4", in the Bucket. (30)

FS: No Blow . (30)

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	GVSOCM 1%g 1%o 98%m	0.08
0.00	80' GIP 100%g	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70605

DST#: 3

ATTN: Sean Deenihan

Test Start: 2023.03.26 @ 10:22:26

Tool Information

Drill Pipe:	Length: 3029.00 ft	Diameter: 3.80 inches	Volume: 42.49 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 43.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3154.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer in the String.

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3129.00	
Shut In Tool	5.00			3134.00	
Hydraulic tool	5.00			3139.00	
EMT	3.00			3142.00	
Safety Joint	3.00			3145.00	
Packer	5.00			3150.00	26.00 Bottom Of Top Packer
Packer	4.00			3154.00	
Stubb	1.00			3155.00	
Recorder	0.00	8788	Inside	3155.00	
Recorder	0.00	8737	Outside	3155.00	
Perforations	25.00			3180.00	
Bullnose	3.00			3183.00	29.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70605

DST#: 3

ATTN: Sean Deenihan

Test Start: 2023.03.26 @ 10:22:26

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:

4400 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.39 in³

Gas Cushion Type:

Resistivity: 4400.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	GVSOCM 1%g 1%o 98%m	0.076
0.00	80' GIP 100%g	0.000

Total Length: 10.00 ft Total Volume: 0.076 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

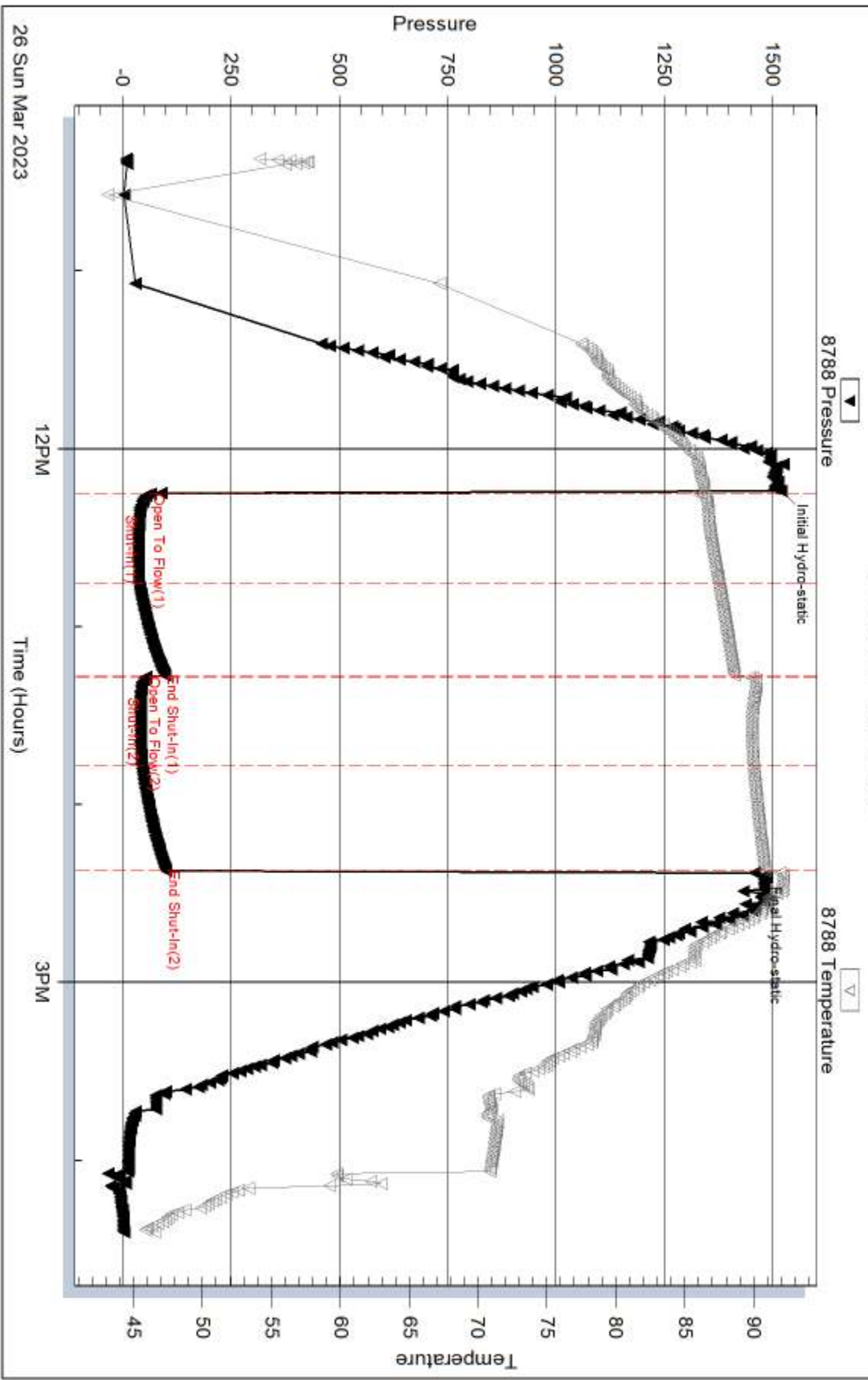
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 80 Feet of Gas in Pipe.

Pressure vs. Time

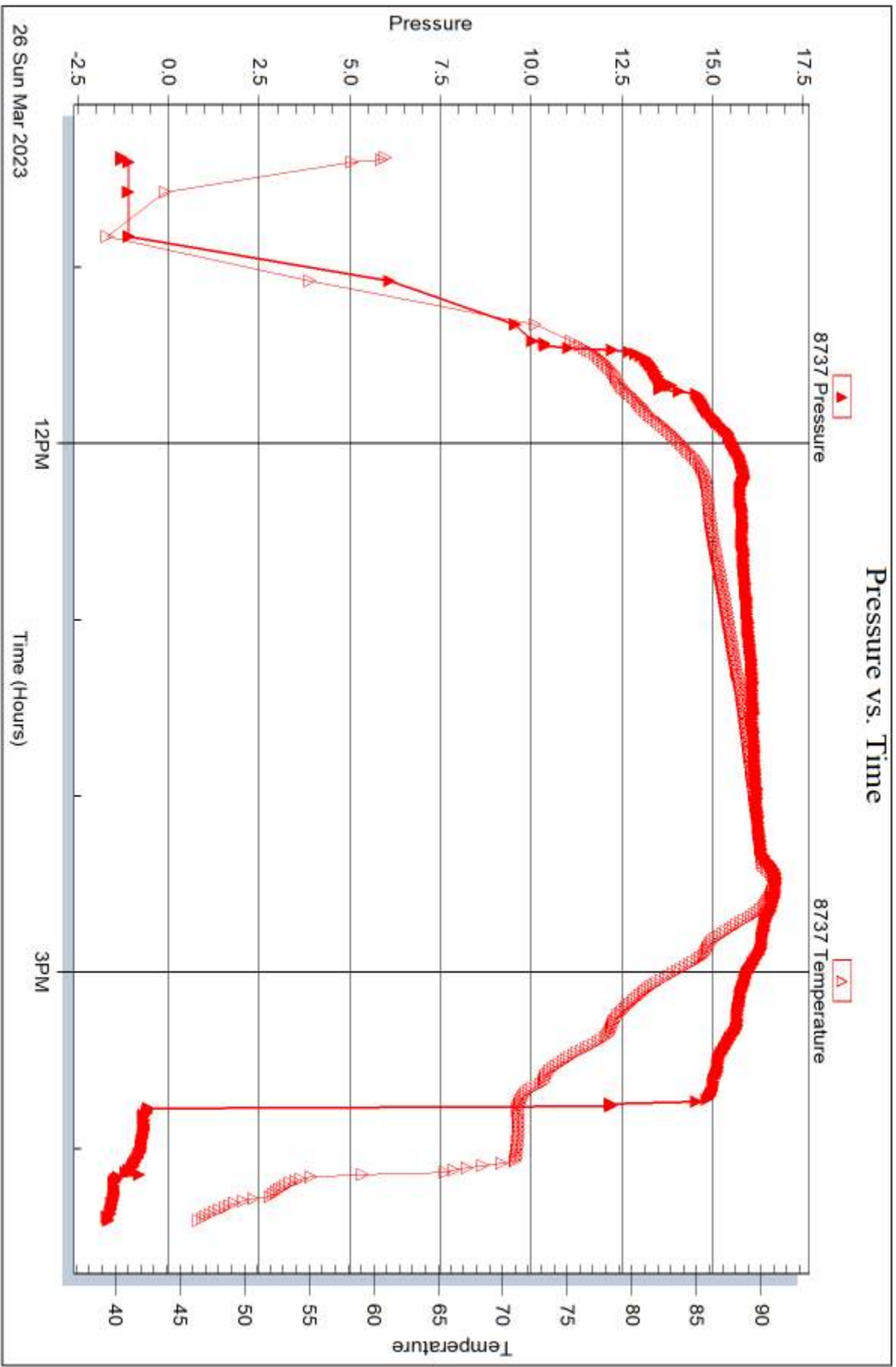


Serial #: 8737

Outside Iuka-Carmi Development LLC

Sessler #2

DST Test Number: 3



26 Sun Mar 2023

Triobite Testing, Inc

Ref. No: 70605

Printed: 2023.03.29 @ 16:58:41



DRILL STEM TEST REPORT

Prepared For: **Iuka-Carmi Development LLC**

PO Box 847
Pratt, KS. 67124

ATTN: Sean Deenihan

Sessler #2

27-20s-11w Barton,KS

Start Date: 2023.03.27 @ 20:08:03

End Date: 2023.03.28 @ 02:03:03

Job Ticket #: 70606 DST #: 4

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

Printed: 2023.03.29 @ 16:49:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Iuka-Carmi Development LLC

27-20s-11w Barton, KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70606

DST#: 4

ATTN: Sean Deenihan

Test Start: 2023.03.27 @ 20:08:03

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:50:33

Time Test Ended: 02:03:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

Interval: 3378.00 ft (KB) To 3428.00 ft (KB) (TVD)

Reference Elevations: 1775.00 ft (KB)

Total Depth: 3428.00 ft (KB) (TVD)

1767.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8788

Inside

Press@RunDepth: 262.19 psig @ 3379.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2023.03.27 End Date: 2023.03.28

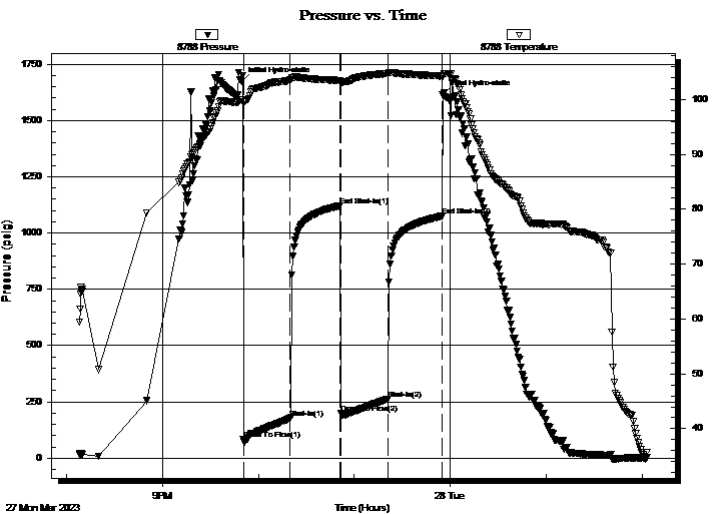
Last Calib.: 2023.03.28

Start Time: 20:08:08 End Time: 02:03:02

Time On Btm: 2023.03.27 @ 21:49:18

Time Off Btm: 2023.03.27 @ 23:55:18

TEST COMMENT: IF: Strong Blow . B.O.B. in 15 mins. Built to 19.51". (30)
IS: No Blow . (30)
FF: Strong Blow . B.O.B. in 19 mins. Built to 16.16". (30)
FSI: No Blow . (30)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1673.45	99.93	Initial Hydro-static
2	81.88	99.57	Open To Flow (1)
31	177.57	103.54	Shut-In(1)
62	1120.07	103.47	End Shut-In(1)
63	200.31	103.17	Open To Flow (2)
92	262.19	104.72	Shut-In(2)
126	1074.42	104.29	End Shut-In(2)
126	1612.62	104.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 5%w 95%w	0.91
252.00	WCM 45%w 55%w	3.53
128.00	GWCM 1%g 10%w 89%w	1.80
0.00	124' GIP 100%g	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70606

DST#: 4

ATTN: Sean Deenihan

Test Start: 2023.03.27 @ 20:08:03

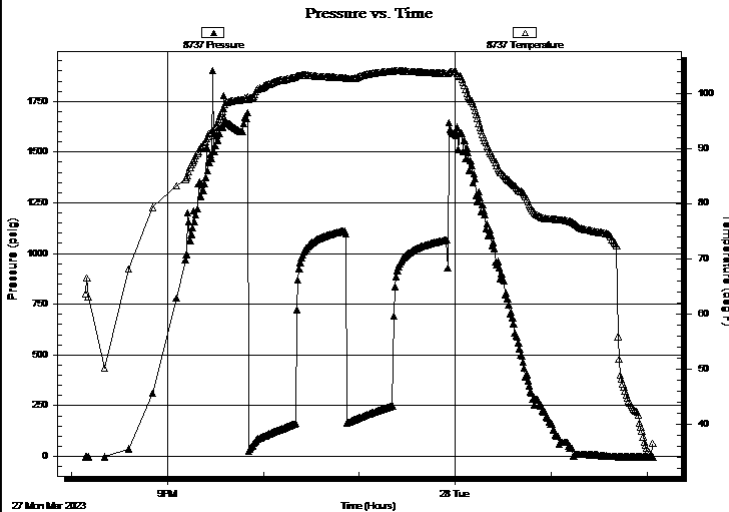
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:50:33
 Tester: Matt Smith
 Time Test Ended: 02:03:03
 Unit No: 68
 Interval: **3378.00 ft (KB) To 3428.00 ft (KB) (TVD)**
 Reference Elevations: 1775.00 ft (KB)
 Total Depth: 3428.00 ft (KB) (TVD)
 1767.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8737 Outside

Press@RunDepth: psig @ 3379.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2023.03.27 End Date: 2023.03.28 Last Calib.: 2023.03.28
 Start Time: 20:08:45 End Time: 02:03:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow . B.O.B. in 15 mins. Built to 19.51". (30)
 IS: No Blow . (30)
 FF: Strong Blow . B.O.B. in 19 mins. Built to 16.16". (30)
 FSI: No Blow . (30)



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCW 5%w 95%w	0.91
252.00	WCM 45%w 55%m	3.53
128.00	GWCM 1%g 10%w 89%m	1.80
0.00	124' GIP 100%g	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70606

DST#: 4

ATTN: Sean Deenihan

Test Start: 2023.03.27 @ 20:08:03

Tool Information

Drill Pipe:	Length: 3250.00 ft	Diameter: 3.80 inches	Volume: 45.59 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.80 inches	Volume: 0.91 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 46.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	3378.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	76.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3353.00	
Shut In Tool	5.00			3358.00	
Hydraulic tool	5.00			3363.00	
EMT	3.00			3366.00	
Safety Joint	3.00			3369.00	
Packer	5.00			3374.00	26.00 Bottom Of Top Packer
Packer	4.00			3378.00	
Stubb	1.00			3379.00	
Recorder	0.00	8788	Inside	3379.00	
Recorder	0.00	8737	Outside	3379.00	
Perforations	3.00			3382.00	
Change Over Sub	1.00			3383.00	
Blank Spacing	31.00			3414.00	
Change Over Sub	1.00			3415.00	
Perforations	10.00			3425.00	
Bullnose	3.00			3428.00	50.00 Bottom Packers & Anchor
Total Tool Length:	76.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Iuka-Carmi Development LLC

27-20s-11w Barton,KS

PO Box 847
Pratt, KS. 67124

Sessler #2

Job Ticket: 70606

DST#: 4

ATTN: Sean Deenihan

Test Start: 2023.03.27 @ 20:08:03

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:

70000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in³

Gas Cushion Type:

Resistivity: 9800.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MCW 5%m 95%w	0.914
252.00	WCM 45%w 55%m	3.535
128.00	GWCM 1%g 10%w 89%m	1.796
0.00	124' GIP 100%g	0.000

Total Length: 500.00 ft

Total Volume: 6.245 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 124 Feet of Gas in Pipe.

RW is .23 @ 35 Degrees = 70,000 Chlorides.

Serial #: 8788

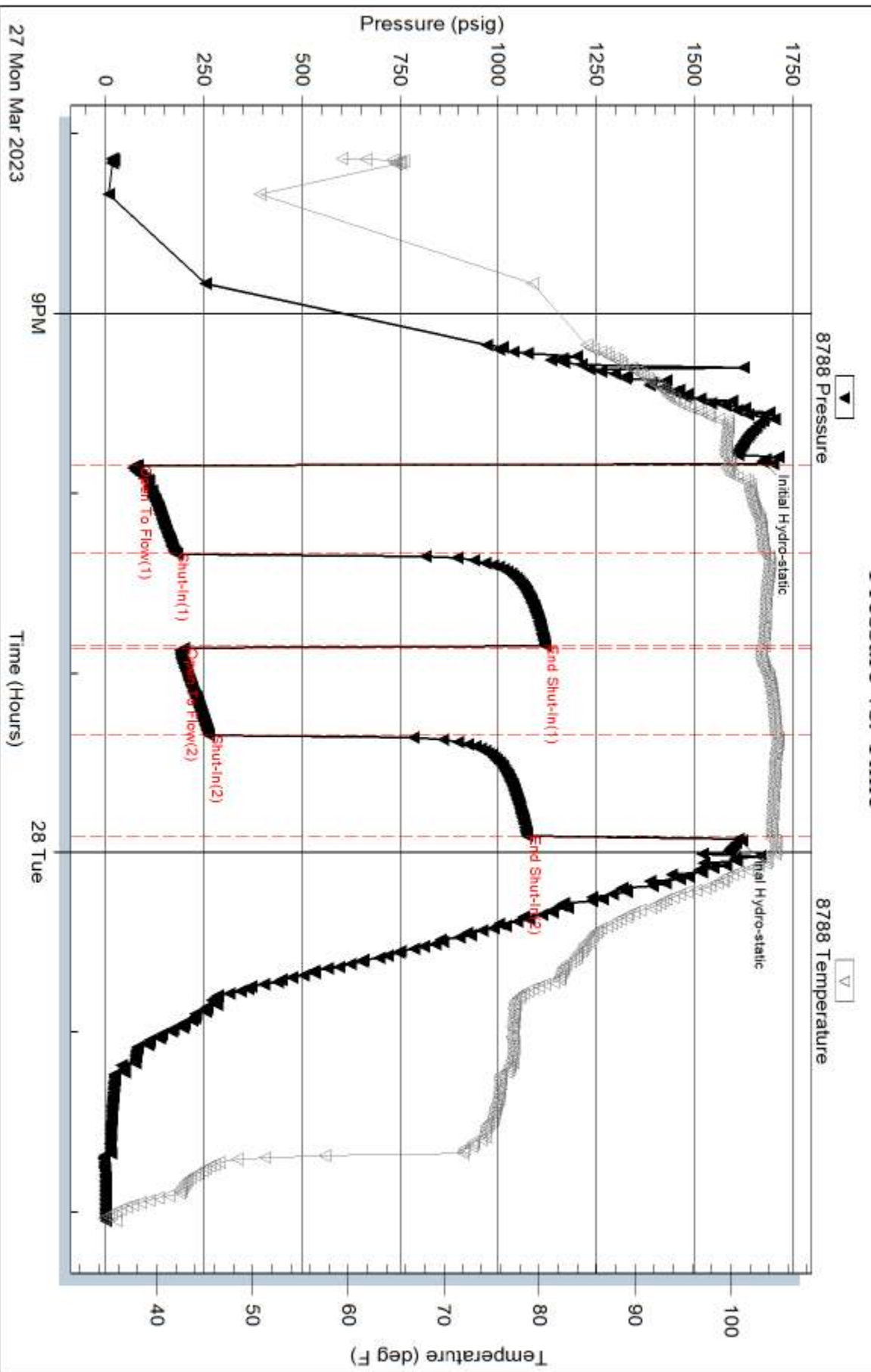
Inside

Iuka-Carmi Development LLC

Sessler #2

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 70606

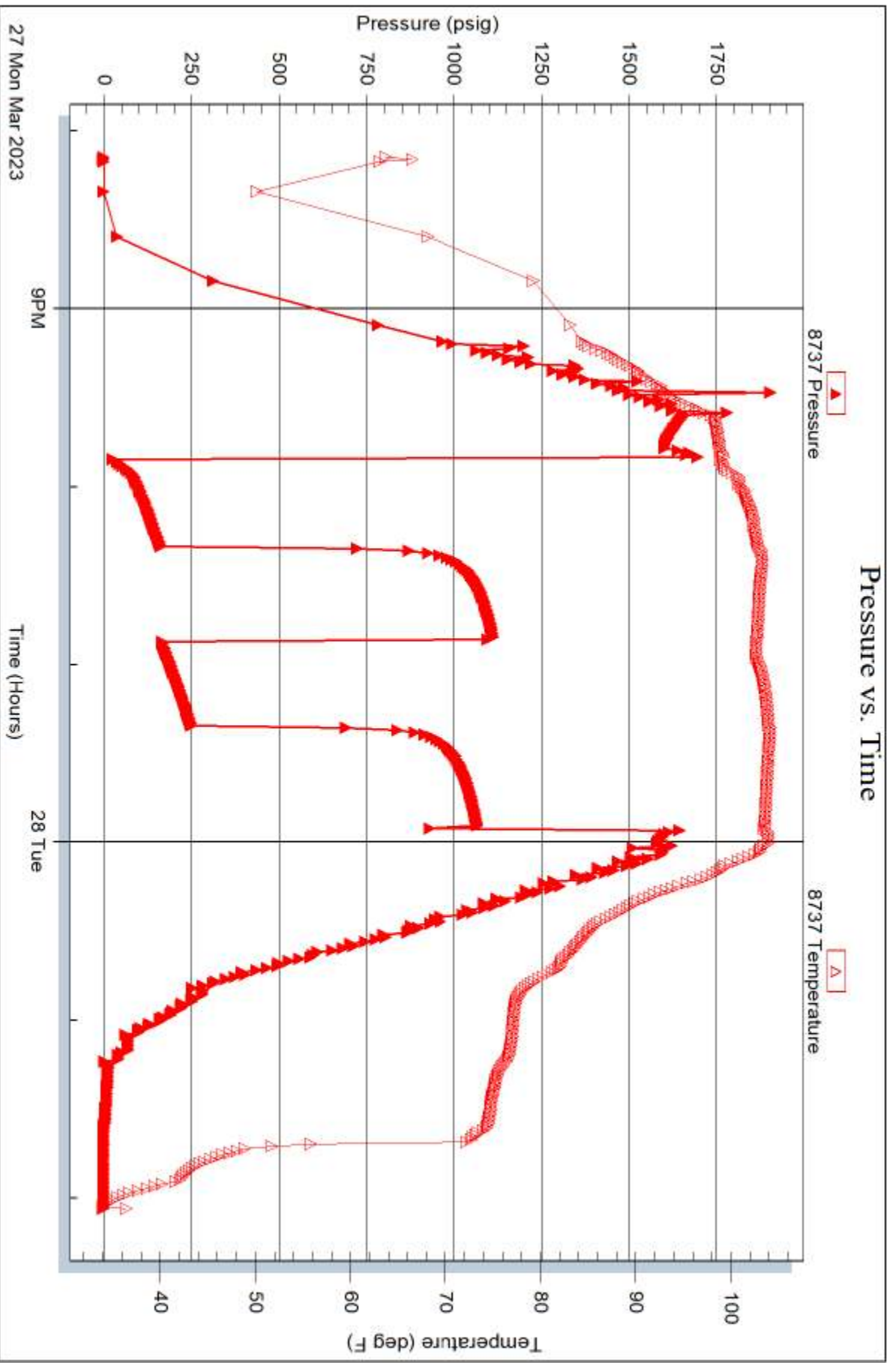
Printed: 2023.03.29 @ 16:49:55

Serial #: 8737

Outside Iuka-Carmi Development LLC

Sessler #2

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70603

Well Name & No. Sessler #2 Test No. 1 Date 3/25/23
 Company Luka - Carmie Development Elevation 1775 KB 1767 GL
 Address P.O. Box 847 Pratt, KS, 67124
 Co. Rep / Geo Sean Deenihan Rig Fossil #5
 Location: Sec. 27 Twp 20S Rge. 11W Co. Barton State KS.

Interval Tested 3072 - 3125 Zone Tested Lansing "A-C"
 Anchor Length 53' Drill Pipe Run 2935 Mud Wt. 9.0
 Top Packer Depth 3067 Drill Collars Run 120 Vis 58
 Bottom Packer Depth 3072 Wt. Pipe Run 6 WL 5.4
 Total Depth 3125 Chlorides 4100 ppm System LCM 3#

Blow Description IF: Strong Blow, Built to 11.78"
ISI: No Blow
FF: Fair-Strong Blow, Built to 10.52"
FSI: No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>235'</u>	<u>GIP</u>	<u>100</u>			
<u>45'</u>	<u>GOW spec M</u>	<u>1</u>			<u>99</u>
<u>60'</u>	<u>GOW cm</u>	<u>27</u>	<u>13</u>	<u>5</u>	<u>55</u>
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 105' Flow BHT 92° Gravity N/A API RW N/A @ — *F Chlorides 4100 ppm
 Initial Hydrostatic 1484 Test 1800 Ruined Shale Packer
 Initial Flow 49 to 63 Jars Ruined Packer
 Initial Shut-In 455 Circ Sub Hotel
 Final Flow 64 to 87 Hourly Standby EM Tool Successful
 Final Shut-In 503 Mileage 104 Pratt Shop Accessibility
 Final Hydrostatic 1449 Sampler 34rt 59.50 Gas Sample
 T-On Location 0630 Straddle Oversized Hole
 Initial Flow 30 T-Started 0804 Shale Packer 250 Sub Total 0
 Initial Shut-In 30 T-Open 1006 Extra Packer Total 2109.50
 Final Flow 60 T-Pulled 1315 Extra Recorder Tool Loaded @
 Final Shut-In 60 T-Out 1501 Day Standby MP/DST Disc't
 Comments Slip 4'

Approved By _____ Our Representative Matthew J Smith

TriLOBITE TESTING Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss offered 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70604

Well Name & No. Sessler #2 Test No. 2 Date 3/25/23
 Company Iuka-Carmi Development Elevation 1775 KB 1767 GL
 Address P.O. Box 847 Peart, KS. 67124
 Co. Rep / Geo Sean Dechman Rig Fossil #5
 Location: Sec. 27 Twp 20S Rge. 11W Co. Barton State Ks.

Interval Tested 3123 - 3154 Zone Tested Lansing "E-B"
 Anchor Length 31 Drill Pipe Run 2998 Mud Wt. 9.0
 Top Packer Depth 3118 Drill Collars Run 120 Vis 58
 Bottom Packer Depth 3123 Wt. Pipe Run 0 WL 5.4
 Total Depth 3154 Chlorides 4100 ppm System LCM 3rd

Blow Description IF: Weak Blow. Burt to 1/2", (16) in the bucket.
FSI: No Blow.
FF: No Blow. Dead. Pulled test after 22 mins.
FSI: —

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Dm</u>			<u>100</u>	
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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 3' Fluo BHT 92° Gravity N/A API RW N/A @ — °F Chlorides 4100 ppm
 Initial Hydrostatic 1498 Test 1800 Ruined Shale Packer
 Initial Flow 53 to 31 Jars Ruined Packer
 Initial Shut-In 59 Circ Sub Hotel
 Final Flow 40 to 31 Hourly Standby EM Tool Successful
 Final Shut-In Pulled Test Mileage (34) G.B. Shop Accessibility
 Final Hydrostatic 1465 Sampler 59.50 Gas Sample
 Initial Flow 30 T-On Location 2015 (CW) Straddle Oversized Hole
 Initial Shut-In 30 T-Started 2253 Shale Packer 250 Sub Total 0
 Final Flow 22 T-Open 0053 Extra Packer Total 2109.50
 Final Shut-In — T-Pulled 0230 Extra Recorder Tool Loaded @
 Final Shut-In — T-Out 0408 Day Standby MP/DST Disc't

Comments Went to town to get food & drinks back to location

Approved By _____ Our Representative Matthew J. Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70605

Well Name & No. Sessler #2 Test No. 3 Date 3/26/23
 Company Inka - Carmi Development Elevation 1775 KB 1767 GL
 Address P.O. Box 847 Pratt, KS, 67124
 Co. Rep / Geo Sean Deenihan / Pat Deenihan Rig Fossil #5
 Location: Sec. 27 Twp 20s Rge. 11w Co. Barton State KS

Interval Tested 3154 - 3183 Zone Tested LANSING "X" "G"
 Anchor Length 29' Drill Pipe Run 3029 Mud Wt. 9.0
 Top Packer Depth 3149 Drill Collars Run 120 Vis 57
 Bottom Packer Depth 3154 Wt. Pipe Run 0 WL 5.4
 Total Depth 3183 Chlorides 4400 ppm System LCM 2*

Blow Description IF: Weak Blow. Built to 2 1/4" in the Bucket.
ISI: No Blow.
FF: Weak Blow. Built to 1 1/4" in the Bucket.
FST: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
80	GIP	100			
10	GUSOCM	1	1		98

Rec Total 10' Fluid BHT 94° Gravity N/A API RW N/A @ - °F Chlorides 4400 ppm
 Initial Hydrostatic 1520 Test 1800 Ruined Shale Packer
 Initial Flow 65 to 38 Jars Ruined Packer
 Initial Shut-In 98 Circ Sub Hotel
 Final Flow 55 to 45 Hourly Standby EM Tool Successful 10 -350
 Final Shut-In 101 Mileage Accessibility
 Final Hydrostatic 1459 Sampler Gas Sample
 T- On Location 2215 (3/25/23) Straddle Oversized Hole
 Initial Flow 30 T-Started Shale Packer 250 Sub Total -350
 Initial Shut-In 30 T-Open Extra Packer Total 1700
 Final Flow 30 T-Pulled 1425 Extra Recorder Tool Loaded @
 Final Shut-In 30 T-Out 16:24 Day Standby MP/DST Disc't

Comments * Stay on location, *

Approved By _____ Our Representative Matthew A Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70606

Well Name & No. Sessler #2 Test No. 4 Date 3/27/23
 Company Tulka - Carmi Development Elevation 1775 KB 1767 GL
 Address P.O. Box 847 Pratt, KS 67124
 Co. Rep / Geo Sean Deenihan Rig Fossil #5
 Location: Sec. 27 Twp 20s Rge. 11W Co. Barton State KS.

Interval Tested 3378 - 3428 Zone Tested ARBuckle
 Anchor Length 50' Drill Pipe Run 3250 Mud Wt. 9.0
 Top Packer Depth 3373 Drill Collars Run 120 Vis 50
 Bottom Packer Depth 3378 Wt. Pipe Run 6 WL 5.8
 Total Depth 3428 Chlorides 9800 ppm System LCM 2nd

Blow Description IF: Strong Blow B.O.B. in 15 mins. BHT to 19.51"
ISI: No Blow.
FF: Strong Blow B.O.B. in 19 mins. BHT to 16.16"
FSF: No Blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>GIP</u>	<u>100</u>			
<u>128</u>	<u>GWCM</u>	<u>1</u>	<u>10</u>	<u>89</u>	
<u>258</u>	<u>WCM (252')</u>		<u>45</u>	<u>55</u>	
<u>120</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>500</u>					
Rec Total <u>500'</u>	<u>FLUID BHT 100°</u>	Gravity <u>N/A</u>	API RW <u>23</u>	@ <u>35°</u>	F Chlorides <u>70000</u> ppm

Initial Hydrostatic 1673 Test 1800 Ruined Shale Packer
 Initial Flow 82 to 178 Jars Ruined Packer
 Initial Shut-In 1120 Circ Sub Hotel
 Final Flow 200 to 262 Hourly Standby EM Tool Successful
 Final Shut-In 1074 Mileage (30)⁹ GB motel Accessibility
 Final Hydrostatic 1613 Sampler 59.50 Gas Sample
 T- On Location 1935 CW Straddle Oversized Hole
 Initial Flow 30 T-Started 2008 Shale Packer 250 Sub Total 33.33
 Initial Shut-In 30 T-Open 2150 Extra Packer Total 2142.83
 Final Flow 30 T-Pulled 0002 Extra Recorder Tool Loaded @
 Final Shut-In 30 T-Out 0203 Day Standby 1d 1h MP/DST Disc't

Comments Motel RW is 23 @ 35° = 70,000 chlorides.
500' FLUID.

Approved By _____ Our Representative [Signature]

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Sean Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Iuka-Carmi Development, LLC**
 LEASE **Sessler #2**
 FIELD **Chase - Silica**

LOCATION **1290' FNL & 1135' FWL**
 SEC **27** TWPSP **20S** RGE **11W**
 COUNTY **Barton** STATE **Kansas**

CONTRACTOR **Fossil Drilling Rig #5**
 SPUD **3/20/22** COMP **3/29/23**
 RTD **3470'** LTD **3427'**

MUD UP **CHEMICAL**
 TYPE MUD **Chemical**

SAMPLES SAVED FROM **2800'** TO **RTD**
 DRILLING TIME KEPT FROM **2800'** TO **RTD**
 SAMPLES EXAMINED FROM **2800'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **2800'**
 REFERENCE WELL **CND/DII/MIC SON**

CONDUCTOR **Midwest**
 SURFACE **8-5/8" at 263'**
 PRODUCTION **5.5" at 3461'**

Measurements Are All From **Kelly Bushing**

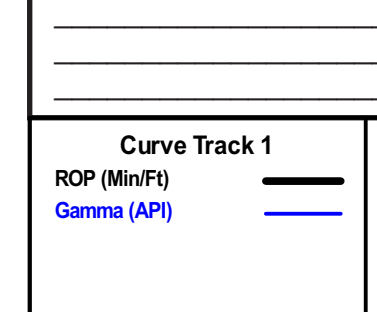
CASING

ELEVATIONS
 KB **1775'**

DF

GL **1767'**

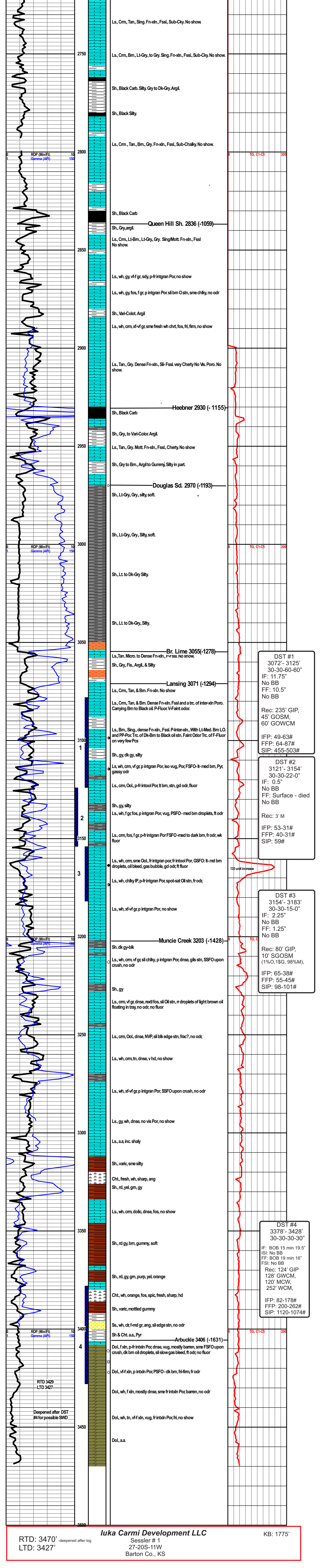
Formation	Sample Tops	E-log Tops	Struct Foss.
B/Anhydrite		530 (+1245)	
Heebner Sh.		2930 (-1115S)	
Lansing		3071 (-1294)	
Arbuckle			



REMARKS The Sessler #2 ran structurally as expected and had many sample shows. Therefore the decision was made to complete the Sessler #2 with 5.5" casing. The well was deepened after logs to set over 50' in Arbuckle for future SWD potential.

Respectfully Submitted,

Sean P. Deenihan
 Patrick J. Deenihan



DST #1
 3072'- 3125'
 30-30-60-60"
 IF: 11.75"
 No BB
 FF: 10.5"
 No BB

Rec: 235' GIP,
 45' SGOSM,
 60' WCM

IFP: 49-63#
 FFP: 64-87#
 SIP: 455-503#

DST #2
 3121'- 3154'
 30-30-22-0"
 IF: 0.5"
 No BB
 FF: Surface - died
 No BB

Rec: 3' M

IFP: 40-31#
 FFP: 53-31#
 SIP: 59#

DST #3
 3154'- 3183'
 30-30-15-0"
 IF: 2.25"
 No BB
 FF: 1.25"
 No BB

Rec: 80' GIP,
 10' SGOSM
 (1%O, 15G, 98%M).

IFP: 65-38#
 FFP: 55-45#
 SIP: 98-101#

DST #4
 3378'- 3428'
 30-30-30-30"
 IF: BOB 15 min 19.5"
 IS: No BB
 FF: BOB 19 min 16"
 FS: No BB

Rec: 124' GIP
 120' GWCM,
 252' WCM,

IFP: 82-178#
 FFP: 200-262#
 SIP: 1120-1074#