

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)</i> <i>(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	Thomas Garner, Inc.
Well Name	DUDREY 3
Doc ID	1595071

All Electric Logs Run

Dual Comp
Dual Induction
Micro
Sonic



HURRICANE SERVICES INC

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

Customer:

THOMAS GARNER INC
305 E 7TH AVE
SAINT JOHN, KS 67576-1652

Invoice Date: 7/23/2021
Invoice #: 0354352
Lease Name: Dudrey
Well #: 3 (New)
County: Stafford, Ks
Job Number: WP1631
District: Thayer

Date/Description	HRS/QTY	Rate	Total
8 5/8" Surface Casing	0.000	0.000	0.00
Cement Pozmix 60/40	375.000	11.440	4,290.00
Calcium Chloride	969.000	0.660	639.54
Cello Flake	94.000	1.540	144.76
8 5/8" Top rubber plug	1.000	154.000	154.00
Light Eq Mileage	30.000	1.760	52.80
Heavy Eq Mileage	30.000	3.520	105.60
Ton Mileage	485.000	1.320	640.20
Cement Pump Service	1.000	660.000	660.00
Cement Plug Container	1.000	220.000	220.00

Total 6,906.90

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer	Thomas Garner	Lease & Well #	Dudrey 3	Date	7/23/2021
Service District	Pratt Kansas	County & State	Stafford Kansas	Legals S/T/R	6 -24s-13w
Job Type	8 5/8	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	Job #
				New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
					Ticket #
					wp1631

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
916	M Brungardt	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
175/522	R Osborn	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
181/256	J Travin0	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
cp070	60/40/2 Pozmix	sack	375.00	\$4,290.00
cp100	Calcium Chloride	lb	969.00	\$639.54
cp120	Cello-flake	lb	94.00	\$144.76
fe285	8 5/8" Rubber Plug	ea	1.00	\$154.00
m015	Light Equipment Mileage	mi	30.00	\$52.80
m010	Heavy Equipment Mileage	mi	30.00	\$105.60
m020	Ton Mileage	tm	485.00	\$640.20
c010	Cement Pump Service	ea	1.00	\$660.00
c050	Cement Plug Container	job	1.00	\$220.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Total Taxable	\$ -	Tax Rate:		Net:	\$5,906.90
Based on this job, how likely is it you would recommend HSI to a colleague?		State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax:	\$ -	Total:	\$ 6,906.90
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely		HSI Representative: <i>Mark Brungardt</i>					

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X  CUSTOMER AUTHORIZATION SIGNATURE



HURRICANE SERVICES INC

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

Customer:

THOMAS GARNER INC
305 E 7TH AVE
SAINT JOHN, KS 67576-1652

Invoice Date: 8/11/2021
Invoice #: 0354595
Lease Name: Dudrey
Well #: 3
County: Stafford, Ks
Job Number: WP1667
District: Pratt

Date/Description	HRS/QTY	Rate	Total
7/30/21-PTA	0.000	0.000	0.00
H-Plug	220.000	11.440	2,516.80
Light Eq Mileage	30.000	1.760	52.80
Heavy Eq Mileage	30.000	3.520	105.60
Ton Mileage	285.000	1.320	376.20
Cement Pump Service	1.000	1,320.000	1,320.00

Net Invoice 4,371.40
Sales Tax: 231.59
Total 4,602.99

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



CEMENT TREATMENT REPORT

Customer:	Thomas GarnerInc	Well:	Dudrey 3	Ticket:	wp1667
City, State:	StJohn Kansas	County:	Stafford Kansas	Date:	7/30/2021
Field Rep:	Lanny Saloga	S-T-R:	6-24s-13w	Service:	PTA

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4105 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	62.0 bbls

Calculated Slurry - Lead	
Blend:	H-Plug
Weight:	13.7 ppg
Water / Sx:	6.8 gal / sx
Yield:	1.43 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	56.0 bbls
Total Sacks:	220 sx

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

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
7:45 PM			-	-	on location job and safety
7:45 PM				-	spot trucks and rig up
				-	
				-	1st plug 4098
11:35 PM	5.0	450.0	5.0	5.0	5 bbls fresh
	5.0	450.0	12.7	17.7	mix 50 sacks cement
	5.0	45.0	60.0	77.7	cement in and displace
1:40 AM				-	2nd plug 840 ft
	4.5	200.0	5.0	5.0	5 bbls fresh
	4.5	200.0	12.7	17.7	mix 50 sacks cement
	4.5	200.0	8.0		cement in and displace
2:10 AM					3rd plug 420 ft
	4.0	200.0	5.0		5 bbls fresh
	4.0	200.0	12.7		mix 50 sacks cement
	4.0	200.0	2.0		cement in and displace
2:45 AM					60 ft
	2.0	-	5.0		mix 20 sacks
3:00 AM	2.0	-	7.6		rat hole mix 30 sack
3:10 AM	2.0	-	5.0		mouse hole mix 20 sacks

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	R valdez	176/521	3.9 bpm	179 psi	141 bbls
Bulk #1:	C Cobb	181/532			
Bulk #2:	B Whitfield				



DRILL STEM TEST REPORT

Prepared For: **Thomas Garner Inc.**

305 E. 7th Ave.
St. John, KS 67576

ATTN: Keith Reavis

Dudrey #3

6-24s-13w Stafford, KS

Start Date: 2021.07.26 @ 20:40:00

End Date: 2021.07.27 @ 05:36:45

Job Ticket #: 67784 DST #: 1

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

Printed: 2021.08.03 @ 14:03:30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67784

DST#: 1

ATTN: Keith Reavis

Test Start: 2021.07.26 @ 20:40:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:17:30

Time Test Ended: 05:36:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3612.00 ft (KB) To 3636.00 ft (KB) (TVD)

Reference Elevations: 1925.00 ft (KB)

Total Depth: 3636.00 ft (KB) (TVD)

1914.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8167 Outside

Press@RunDepth: 138.52 psig @ 3613.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.26 End Date: 2021.07.27

Last Calib.: 2021.07.26

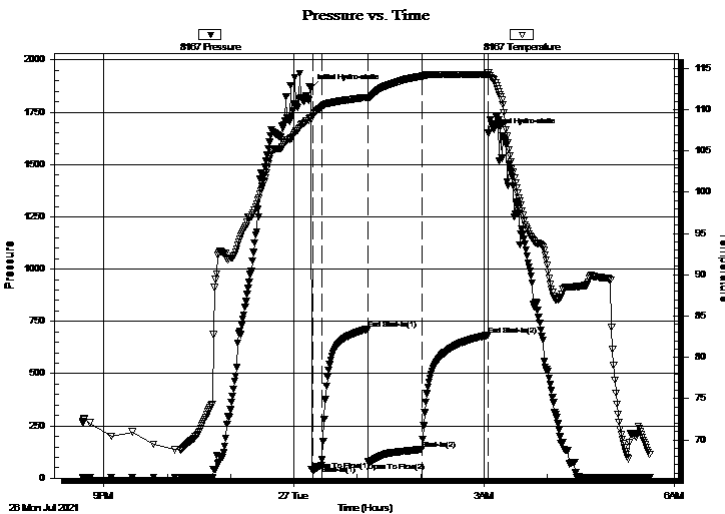
Start Time: 20:40:05 End Time: 05:36:45

Time On Btm: 2021.07.27 @ 00:15:45

Time Off Btm: 2021.07.27 @ 03:04:15

TEST COMMENT: IF- BOB in 4 min Built to 23"
SI1- No return
FF- BOB in 20 min Built to 22.5"
SI2- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.20	108.99	Initial Hydro-static
2	39.96	109.22	Open To Flow (1)
11	61.54	110.26	Shut-In(1)
55	713.01	111.47	End Shut-In(1)
55	77.72	111.31	Open To Flow (2)
106	138.52	114.05	Shut-In(2)
168	683.90	114.23	End Shut-In(2)
169	1653.18	114.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	WCM w/ Oil spots 90% mud 9% w 1%	0.31
62.00	MCW 70% w ater 30% mud	0.30
124.00	MCW 82% w ater 18% Mud	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67784

DST#: 1

ATTN: Keith Reavis

Test Start: 2021.07.26 @ 20:40:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:17:30

Time Test Ended: 05:36:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3612.00 ft (KB) To 3636.00 ft (KB) (TVD)

Reference Elevations: 1925.00 ft (KB)

Total Depth: 3636.00 ft (KB) (TVD)

1914.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 3613.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.26 End Date: 2021.07.27

Last Calib.: 1899.12.30

Start Time: 20:40:05 End Time: 05:37:00

Time On Btm:

Time Off Btm:

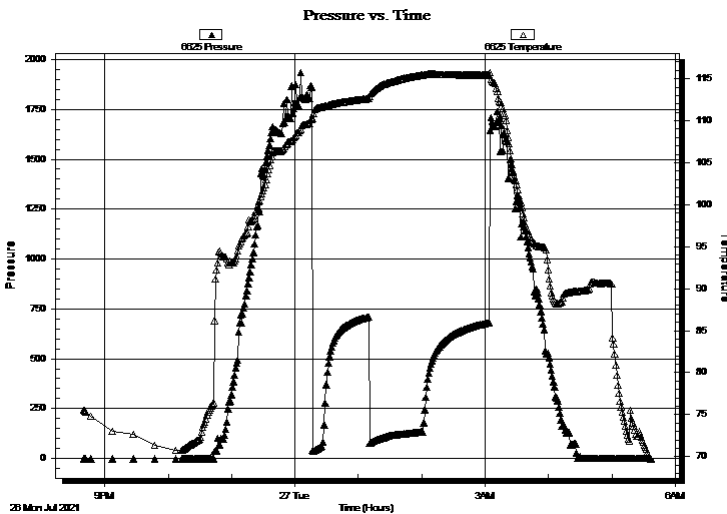
TEST COMMENT: IF- BOB in 4 min Built to 23"

SI1- No return

FF- BOB in 20 min Built to 22.5"

SI2- No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	WCM w/ Oil spots 90% mud 9% w 1%	0.31
62.00	MCW 70% w ater 30% mud	0.30
124.00	MCW 82% w ater 18% Mud	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67784

DST#: 1

ATTN: Keith Reavis

Test Start: 2021.07.26 @ 20:40:00

Tool Information

Drill Pipe:	Length: 3376.00 ft	Diameter: 3.80 inches	Volume: 47.36 bbl	Tool Weight: 2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 48.43 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3612.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 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			3580.00	
Shut In Tool	5.00			3585.00	
Hydraulic tool	5.00			3590.00	
Jars	5.00			3595.00	
EM Tool	4.00			3599.00	
Safety Joint	3.00			3602.00	
Packer	5.00			3607.00	33.00 Bottom Of Top Packer
Packer	5.00			3612.00	
Stubb	1.00			3613.00	
Recorder	0.00	6625	Inside	3613.00	
Recorder	0.00	8167	Outside	3613.00	
Perforations	20.00			3633.00	
Perforations	3.00			3636.00	24.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67784

DST#: 1

ATTN: Keith Reavis

Test Start: 2021.07.26 @ 20:40:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	WCM w / Oil spots 90% mud 9% w 1% oil	0.310
62.00	MCW 70% w ater 30% mud	0.305
124.00	MCW 82% w ater 18% Mud	0.892

Total Length: 249.00 ft

Total Volume: 1.507 bbl

Num Fluid Samples: 0

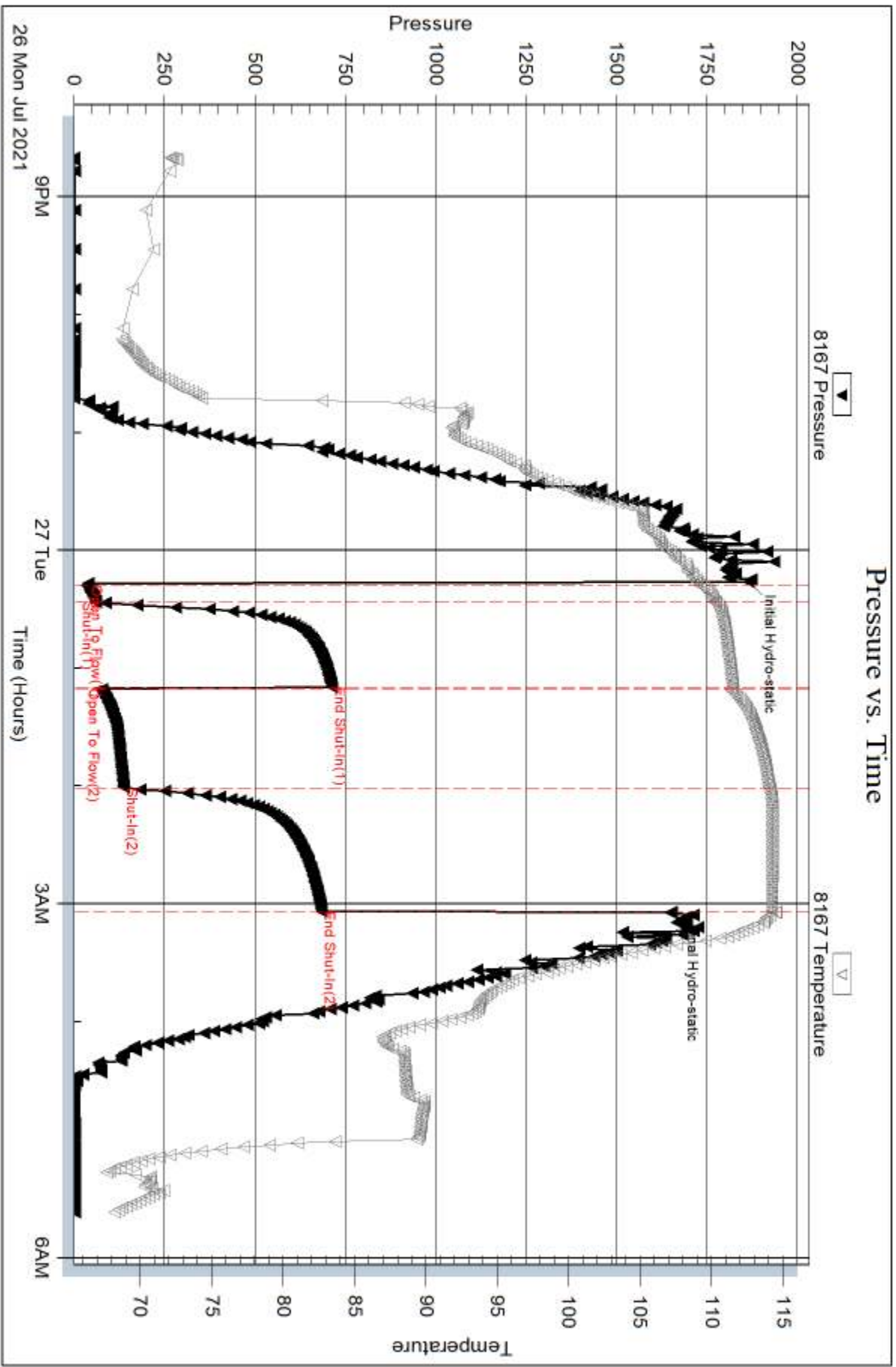
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3.5#lcm



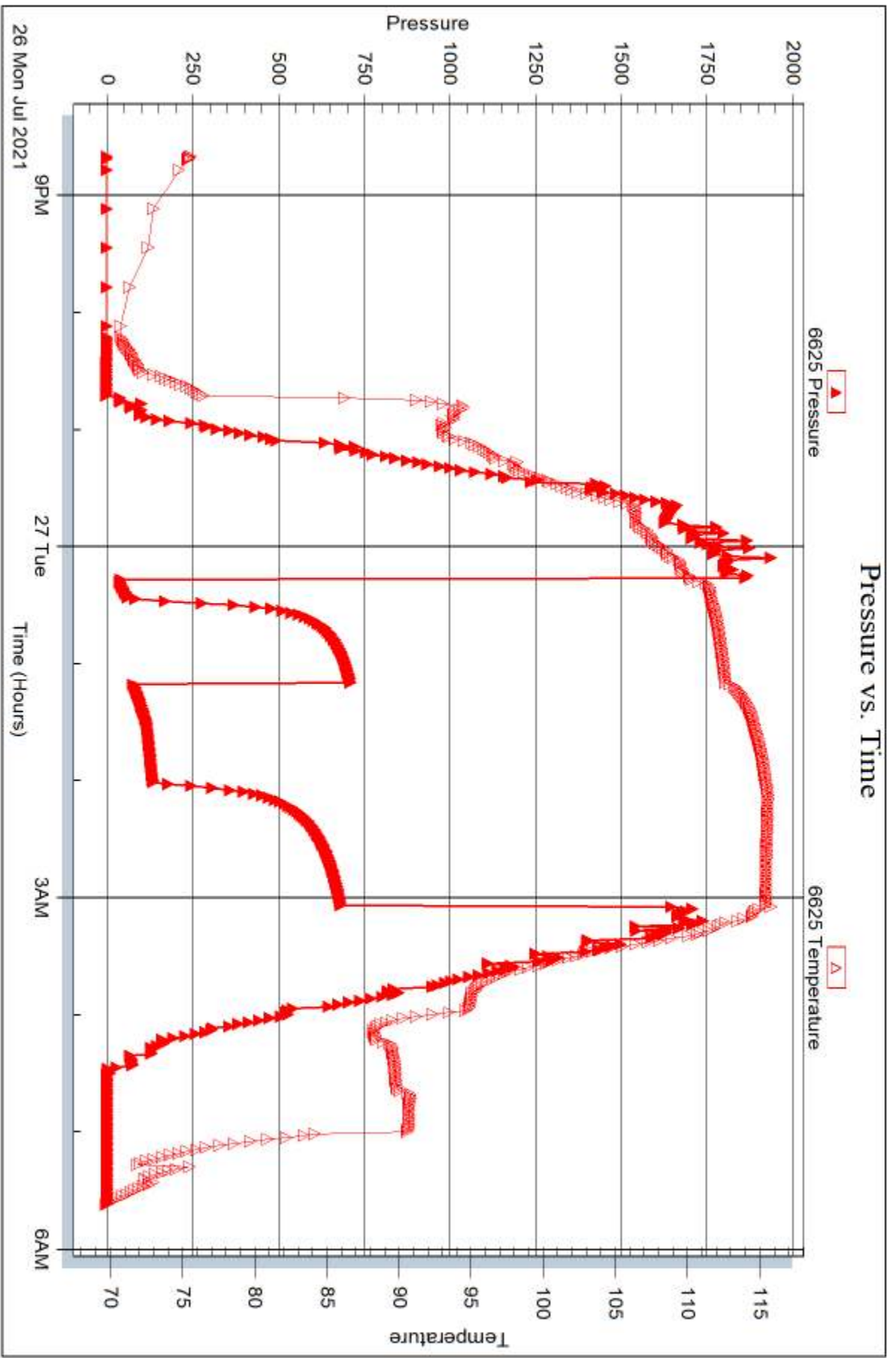
Serial #: 6625

Inside

Thomas Garner Inc.

Dudrey #3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67784

Printed: 2021.08.03 @ 14:03:31



DRILL STEM TEST REPORT

Prepared For: **Thomas Garner Inc.**

305 E. 7th Ave.
St. John, KS 67576

ATTN: Keith Reavis

Dudrey #3

6-24s-13w Stafford, KS

Start Date: 2021.07.27 @ 14:01:00

End Date: 2021.07.27 @ 21:25:45

Job Ticket #: 67785 DST #: 2

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

Printed: 2021.08.03 @ 14:01:37



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67785

DST#: 2

ATTN: Keith Reavis

Test Start: 2021.07.27 @ 14:01:00

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:16:15

Time Test Ended: 21:25:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3677.00 ft (KB) To 3693.00 ft (KB) (TVD)

Reference Elevations: 1925.00 ft (KB)

Total Depth: 3636.00 ft (KB) (TVD)

1914.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 11.00 ft

Serial #: 6625 Inside

Press@RunDepth: 25.14 psig @ 3678.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.27 End Date: 2021.07.27

Last Calib.: 2021.07.27

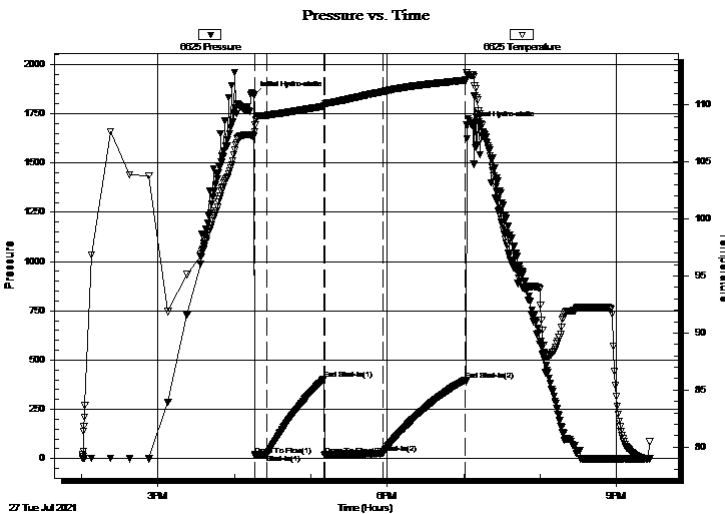
Start Time: 14:01:05 End Time: 21:25:44

Time On Btm: 2021.07.27 @ 16:15:30

Time Off Btm: 2021.07.27 @ 19:02:15

TEST COMMENT: IF- Built to 8.5"
SI1- no return
FF- BOB in 1 min, Built to 27.5"
SI2- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.78	107.25	Initial Hydro-static
1	17.48	108.24	Open To Flow (1)
11	20.27	109.09	Shut-In(1)
55	403.99	109.90	End Shut-In(1)
56	16.39	109.94	Open To Flow (2)
101	25.14	111.17	Shut-In(2)
166	397.82	112.19	End Shut-In(2)
167	1691.80	112.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud 100%	0.15

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67785

DST#: 2

ATTN: Keith Reavis

Test Start: 2021.07.27 @ 14:01:00

Tool Information

Drill Pipe:	Length: 3440.00 ft	Diameter: 3.80 inches	Volume: 48.25 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 49.32 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3677.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	49.00 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			3645.00	
Shut In Tool	5.00			3650.00	
Hydraulic tool	5.00			3655.00	
Jars	5.00			3660.00	
EM Tool	4.00			3664.00	
Safety Joint	3.00			3667.00	
Packer	5.00			3672.00	33.00 Bottom Of Top Packer
Packer	5.00			3677.00	
Stubb	1.00			3678.00	
Recorder	0.00	6625	Inside	3678.00	
Recorder	0.00	8167	Outside	3678.00	
Perforations	12.00			3690.00	
Perforations	3.00			3693.00	16.00 Bottom Packers & Anchor

Total Tool Length: 49.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67785

DST#: 2

ATTN: Keith Reavis

Test Start: 2021.07.27 @ 14:01:00

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: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud 100%	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

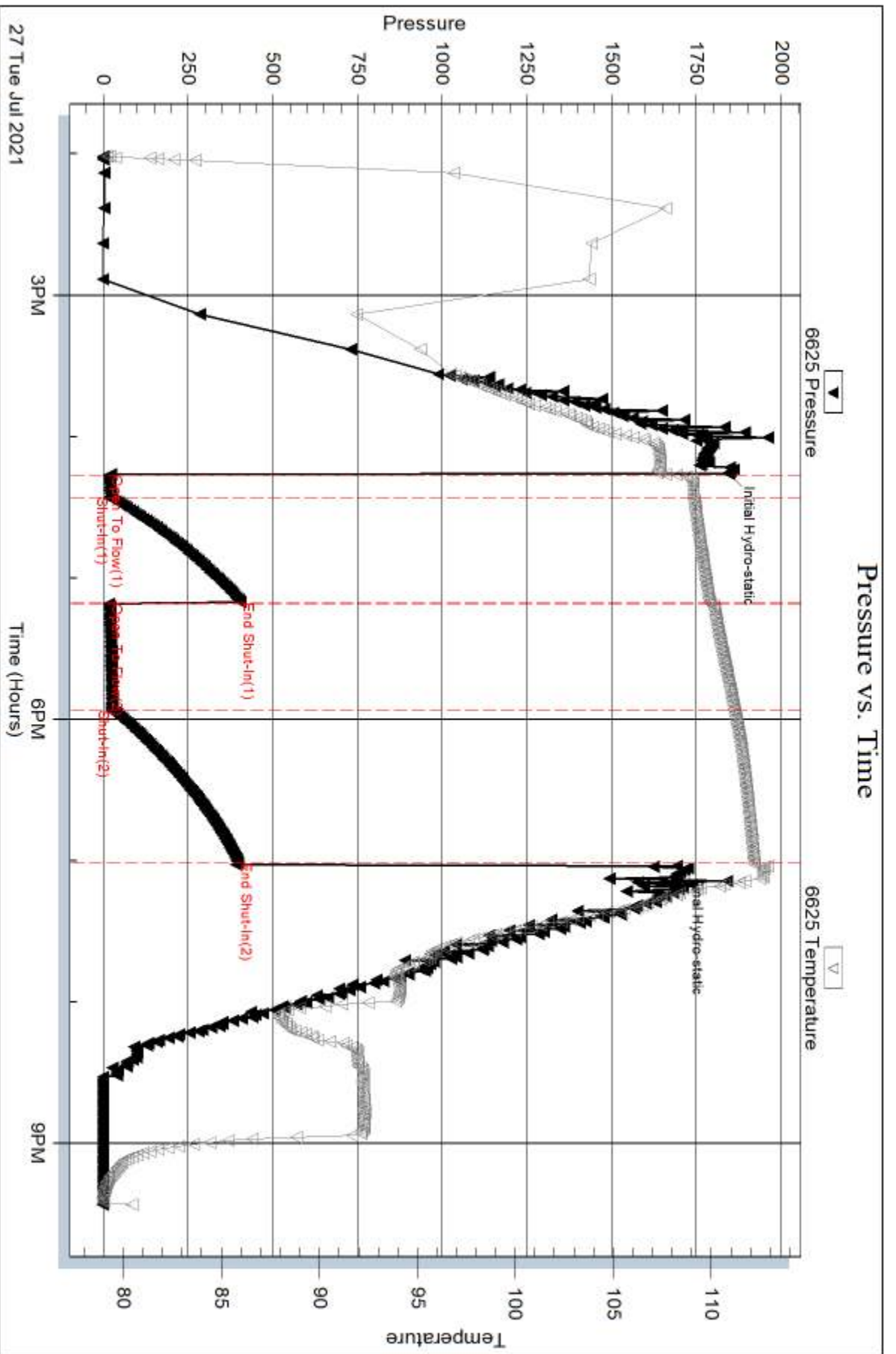
Num Gas Bombs: 0

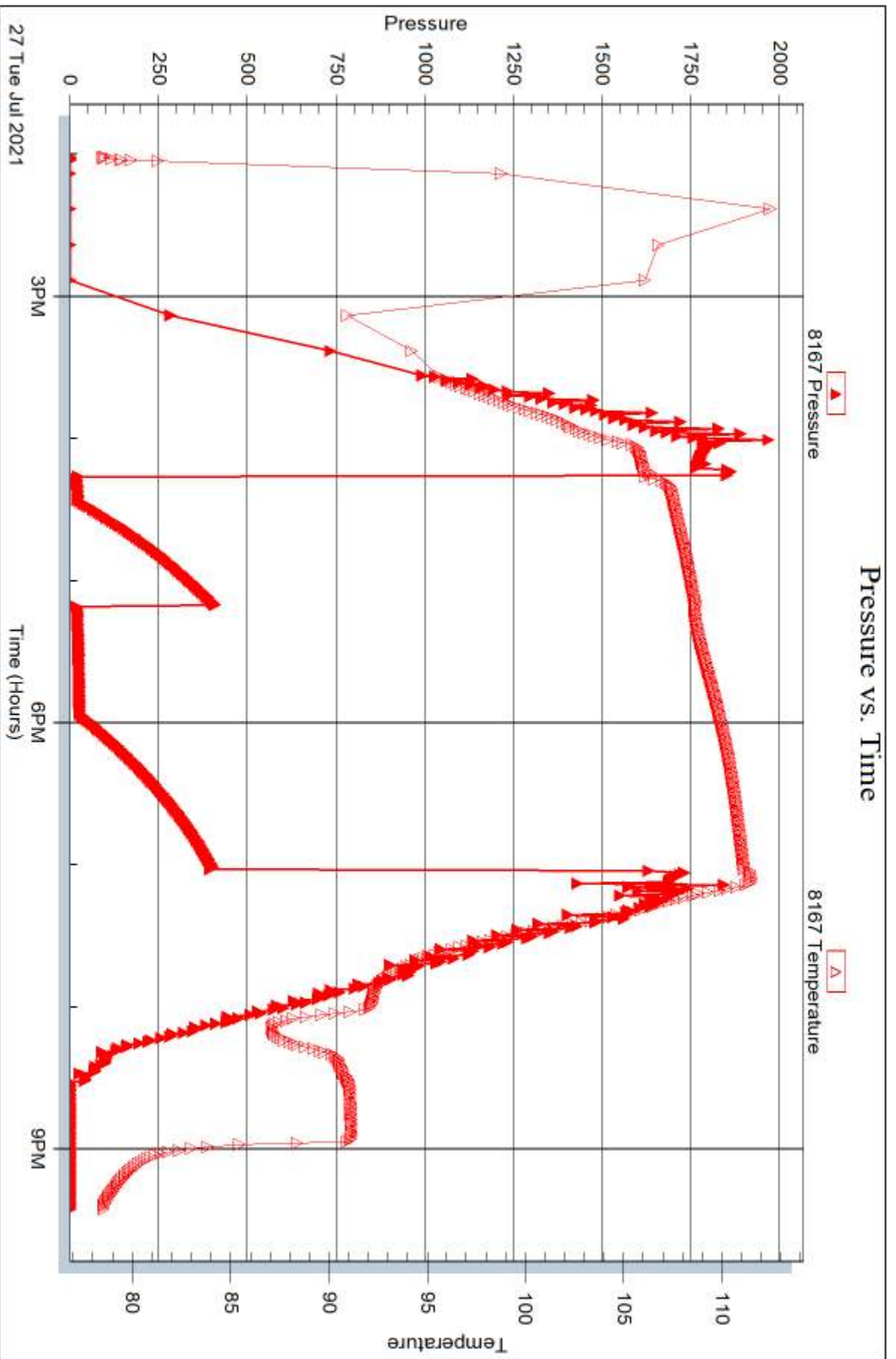
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3# LCM







DRILL STEM TEST REPORT

Prepared For: **Thomas Garner Inc.**

305 E. 7th Ave.
St. John, KS 67576

ATTN: Keith Reavis

Dudrey #3

6-24s-13w Stafford, KS

Start Date: 2021.07.28 @ 16:50:00

End Date: 2021.07.29 @ 00:21:15

Job Ticket #: 67786 DST #: 3

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

Printed: 2021.08.03 @ 13:56:15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67786

DST#: 3

ATTN: Keith Reavis

Test Start: 2021.07.28 @ 16:50:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:23:00

Time Test Ended: 00:21:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 3846.00 ft (KB) To 3895.00 ft (KB) (TVD)

Reference Elevations: 1925.00 ft (KB)

Total Depth: 3636.00 ft (KB) (TVD)

1914.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6625 Inside

Press@RunDepth: 159.91 psig @ 3847.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.28

End Date: 2021.07.29

Last Calib.: 2021.07.29

Start Time: 16:50:05

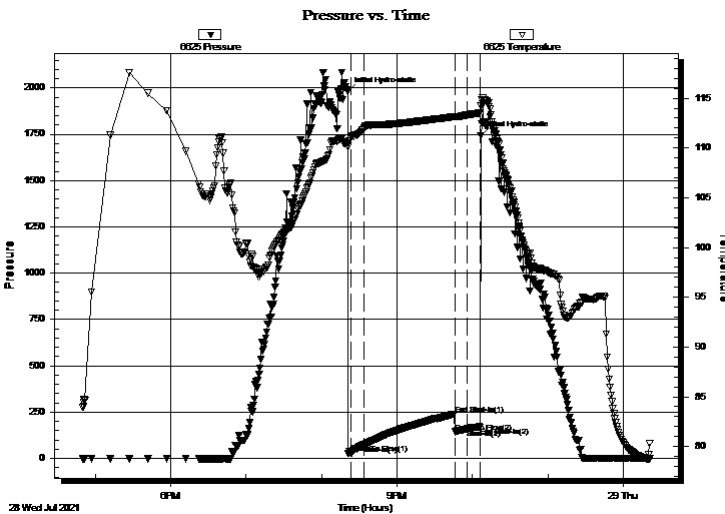
End Time: 00:21:14

Time On Btm: 2021.07.28 @ 20:20:30

Time Off Btm: 2021.07.28 @ 22:06:30

TEST COMMENT: IF- built to .75"
SI1- no return
FF- NO blow
SI2- no return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1979.27	110.52	Initial Hydro-static
3	28.60	111.02	Open To Flow (1)
14	73.37	112.00	Shut-In(1)
86	240.09	113.14	End Shut-In(1)
86	143.45	113.13	Open To Flow (2)
96	159.91	113.31	Shut-In(2)
106	169.60	113.51	End Shut-In(2)
106	1743.12	114.20	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67786

DST#: 3

ATTN: Keith Reavis

Test Start: 2021.07.28 @ 16:50:00

Tool Information

Drill Pipe:	Length: 3600.00 ft	Diameter: 3.80 inches	Volume: 50.50 bbl	Tool Weight:	2900.00 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: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 51.57 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3846.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	82.00 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			3814.00	
Shut In Tool	5.00			3819.00	
Hydraulic tool	5.00			3824.00	
Jars	5.00			3829.00	
EM Tool	4.00			3833.00	
Safety Joint	3.00			3836.00	
Packer	5.00			3841.00	33.00 Bottom Of Top Packer
Packer	5.00			3846.00	
Stubb	1.00			3847.00	
Recorder	0.00	6625	Inside	3847.00	
Recorder	0.00	8167	Outside	3847.00	
Perforations	10.00			3857.00	
Change Over Sub	1.00			3858.00	
Drill Pipe	32.00			3890.00	
Change Over Sub	1.00			3891.00	
Perforations	1.00			3892.00	
Bullnose	3.00			3895.00	49.00 Bottom Packers & Anchor
Total Tool Length:	82.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67786

DST#: 3

ATTN: Keith Reavis

Test Start: 2021.07.28 @ 16:50:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

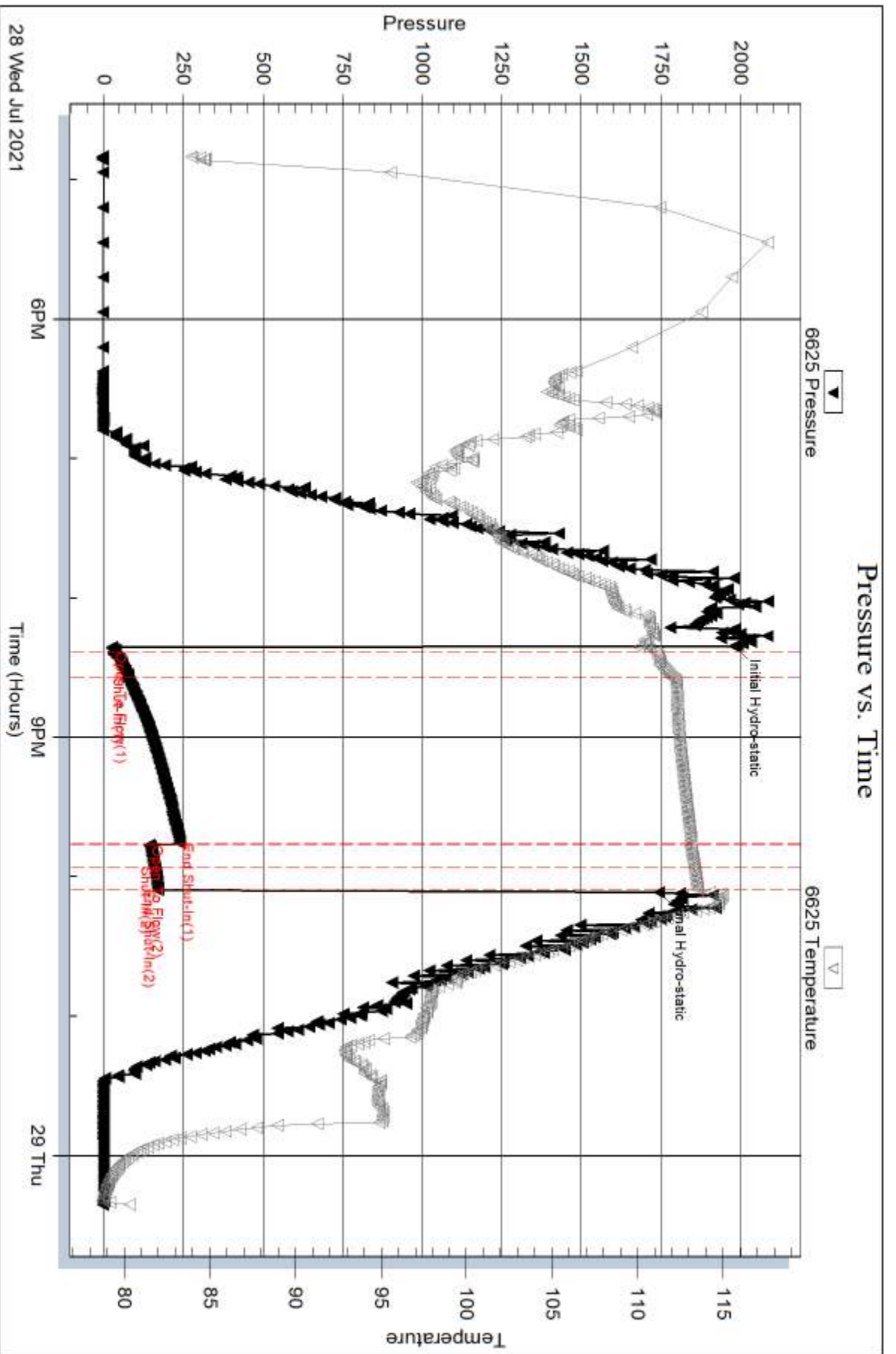
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2.5#lcm

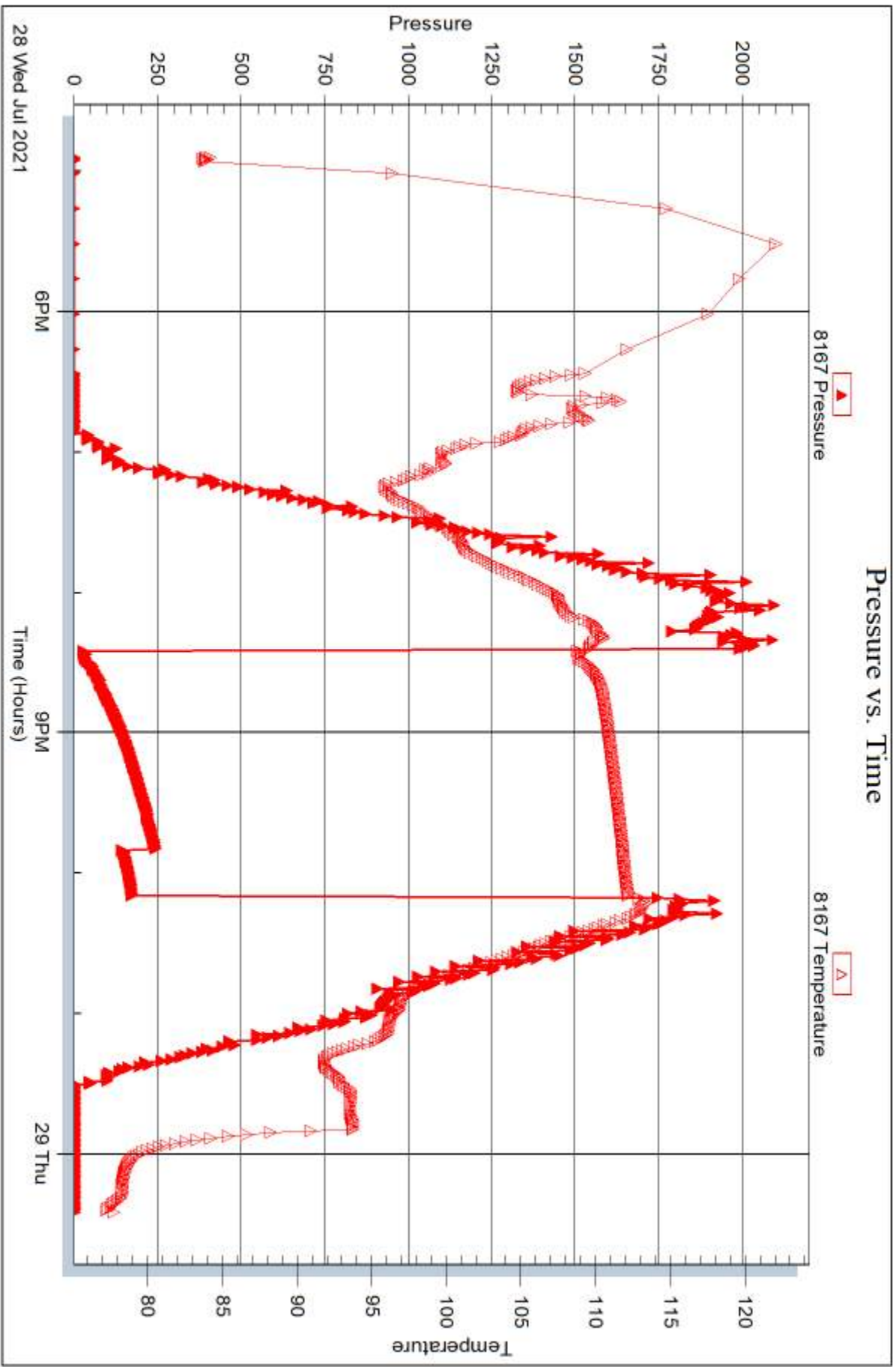


Serial #: 8167

Outside Thomas Garner Inc.

Dudrey #3

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Thomas Garner Inc.**

305 E. 7th Ave.
St. John, KS 67576

ATTN: Keith Reavis

Dudrey #3

6-24s-13w Stafford, KS

Start Date: 2021.07.30 @ 08:50:00

End Date: 2021.07.30 @ 14:47:15

Job Ticket #: 67787 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2021.08.03 @ 13:51:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67787

DST#: 4

ATTN: Keith Reavis

Test Start: 2021.07.30 @ 08:50:00

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:58:15

Time Test Ended: 14:47:15

Test Type: Conventional Straddle (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 4015.00 ft (KB) To 4070.00 ft (KB) (TVD)

Reference Elevations: 1925.00 ft (KB)

Total Depth: 4102.00 ft (KB) (TVD)

1914.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6625 Inside

Press@RunDepth: 44.74 psig @ 4024.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.30

End Date: 2021.07.30

Last Calib.: 2021.07.30

Start Time: 08:50:05

End Time: 14:47:14

Time On Btm: 2021.07.30 @ 10:58:00

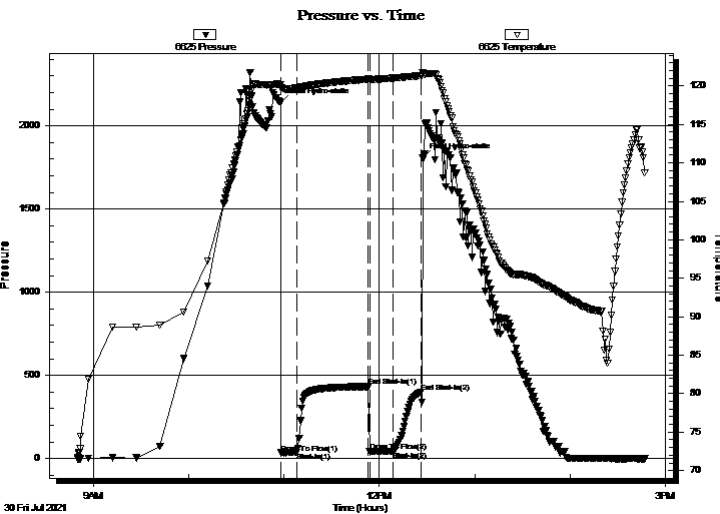
Time Off Btm: 2021.07.30 @ 12:27:15

TEST COMMENT: IF- built to 1.5"

SI1- no return

FF- no blow

SI2- no return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.96	120.19	Initial Hydro-static
1	33.71	119.77	Open To Flow (1)
10	38.04	119.73	Shut-In(1)
55	432.70	120.87	End Shut-In(1)
56	41.14	120.83	Open To Flow (2)
71	44.74	121.01	Shut-In(2)
88	396.93	121.32	End Shut-In(2)
90	1805.59	121.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 20% oil 80% mud	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67787

DST#: 4

ATTN: Keith Reavis

Test Start: 2021.07.30 @ 08:50:00

Tool Information

Drill Pipe:	Length: 3789.00 ft	Diameter: 3.80 inches	Volume: 53.15 bbl	Tool Weight: 2900.00 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: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 54.22 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4015.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	4069.00 ft			
Interval between Packers:	54.00 ft			
Tool Length:	119.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3984.00	
Shut In Tool	5.00			3989.00	
Hydraulic tool	5.00			3994.00	
Jars	5.00			3999.00	
EM Tool	4.00			4003.00	
Safety Joint	3.00			4006.00	
Packer	5.00			4011.00	32.00 Bottom Of Top Packer
Packer	4.00			4015.00	
Stubb	1.00			4016.00	
Perforations	8.00			4024.00	
Recorder	0.00	6625	Inside	4024.00	
Recorder	0.00	8167	Inside	4024.00	
Drill Pipe	32.00			4056.00	
Change Over Sub	1.00			4057.00	
Perforations	8.00			4065.00	
Blank Off Sub	1.00			4066.00	
Packer - Shale	3.00			4069.00	54.00 Tool Interval
Packer	1.00			4070.00	
Stubb	1.00			4071.00	
Recorder	0.00	8652	Below	4071.00	
Perforations	27.00			4098.00	
Bullnose	4.00			4102.00	33.00 Bottom Packers & Anchor

Total Tool Length: 119.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Thomas Garner Inc.

6-24s-13w Stafford, KS

305 E. 7th Ave.
St. John, KS 67576

Dudrey #3

Job Ticket: 67787

DST#: 4

ATTN: Keith Reavis

Test Start: 2021.07.30 @ 08:50:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 44.00 sec/qt
Water Loss: 10.39 in³
Resistivity: ohm.m
Salinity: 8000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

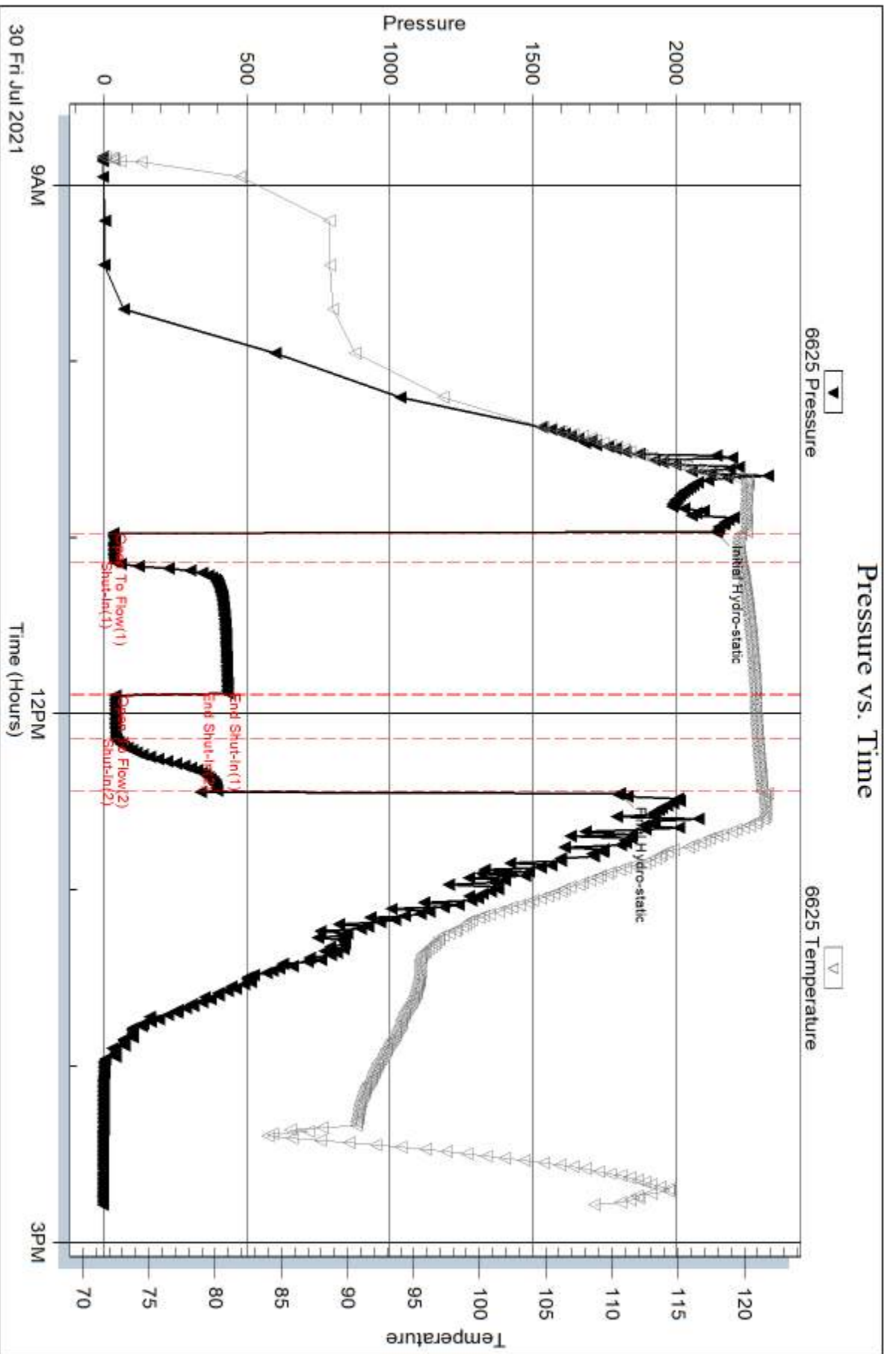
Length ft	Description	Volume bbl
20.00	OCM 20% oil 80% mud	0.098

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: 1# LCM



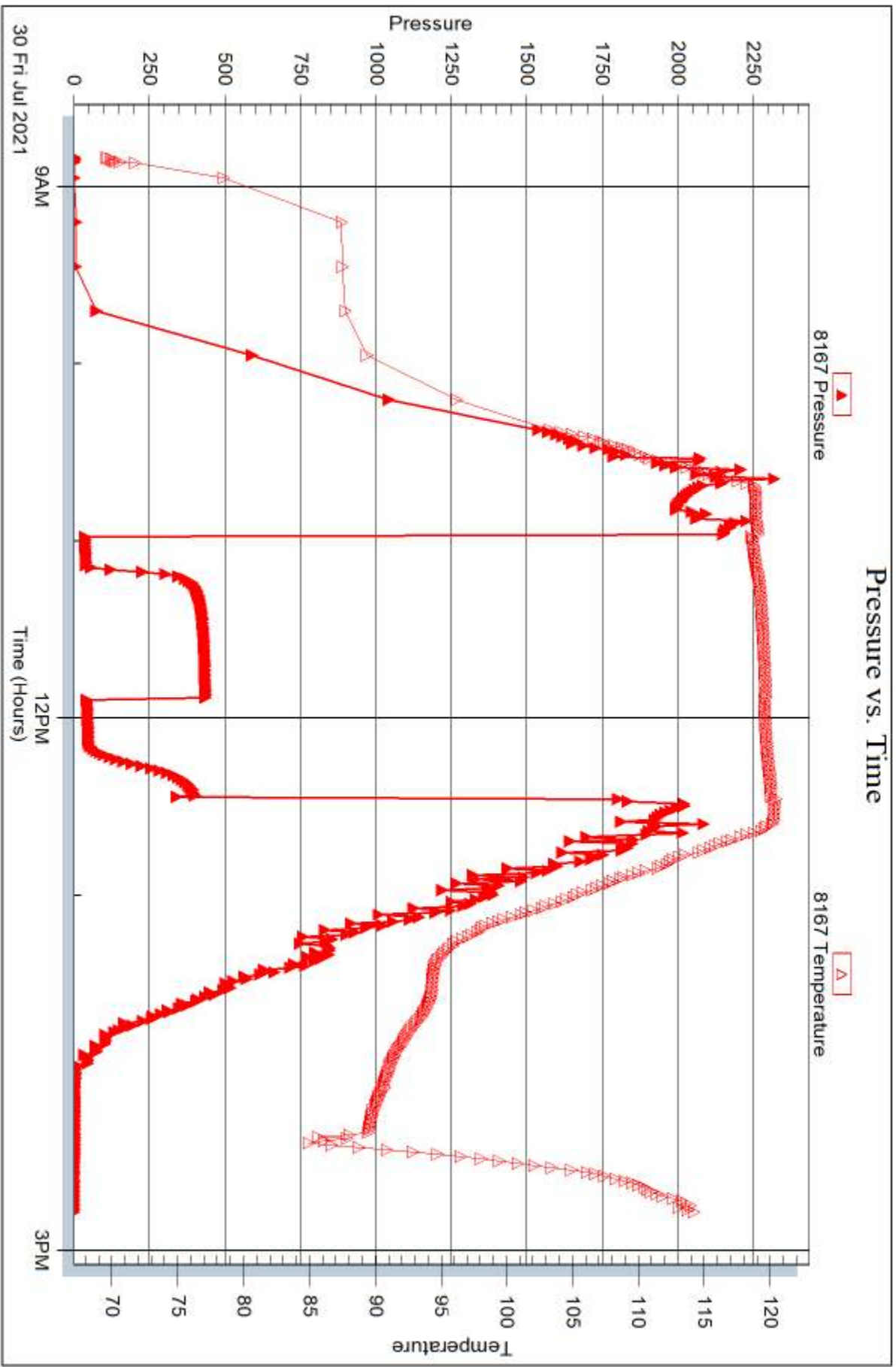
Serial #: 8167

Inside

Thomas Garner Inc.

Dudrey #3

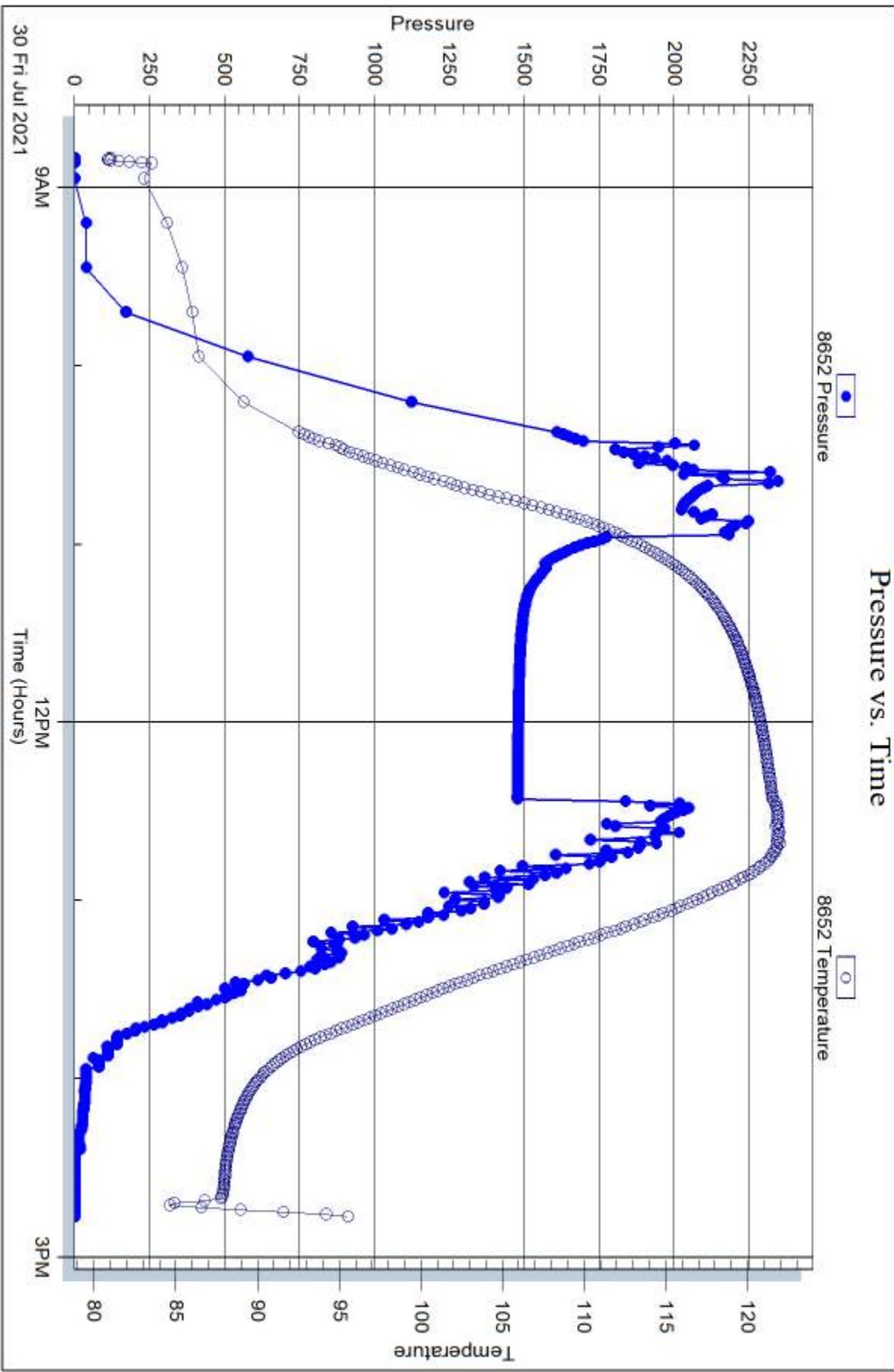
DST Test Number: 4

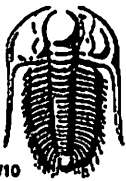


Trilobite Testing, Inc

Ref. No: 67787

Printed: 2021.08.03 @ 13:51:49





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67784

Well Name & No. Dudrey #3 Test No. 1 Date 7/26/21
 Company Thomas Garner Inc Elevation 1925 KB 1914 GL
 Address 305 E 7th Ave St. John, KS 67576
 Co. Rep / Geo. Keith Reavis Rig Sterling #4
 Location: Sec. 6 Twp 24 Rge. 13 Co. Stafford State KS

Interval Tested 3612-3636 Zone Tested LSG F
 Anchor Length 24 Drill Pipe Run 3376 Mud Wt. 9.0
 Top Packer Depth ~~3607~~ 3607 Drill Collars Run 218 Vls 60
 Bottom Packer Depth 3612 Wt. Pipe Run 0 WL 10.4
 Total Depth 3636 Chlorides 2000 ppm System LCM 342
 Blow Description IF - BOB in 4 min, built to 23"
S17 - no Return
FF - BOB in 20 min. Built to 22 1/2"
S12 - No Return

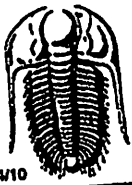
Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>WCM w/oil spots</u>		<u>1</u>	<u>9</u>	<u>90</u>
<u>62</u>	<u>MCW</u>			<u>70</u>	<u>30</u>
<u>124</u>	<u>MCW</u>			<u>82</u>	<u>18</u>

Rec Total ~~249~~ 249' BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1865</u>	<input checked="" type="checkbox"/> Test <u>1200</u>	T-On Location <u>70:00</u>
(B) First Initial Flow <u>39</u>	<input type="checkbox"/> Jars <u>250</u>	T-Started <u>70:40</u>
(C) First Final Flow <u>61</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>00:16</u>
(D) Initial Shut-In <u>713</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/A</u>	T-Pulled <u>03:02</u>
(E) Second Initial Flow <u>77</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>05:37</u>
(F) Second Final Flow <u>138</u>	<input checked="" type="checkbox"/> Mileage <u>46rt 57.50</u>	Comments <u>EM tool did not work</u>
(G) Final Shut-In <u>683</u>	<input type="checkbox"/> Sampler _____	<u>Out of town pay</u>
(H) Final Hydrostatic <u>11653</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>350 NS</u>
Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1582.50</u>
	Sub Total <u>1582.50</u>	MP/DST Disc't _____

Approved By _____ Our Representative DW D

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67785

Well Name & No. Dudrey #3 Test No. 2 Date 7/21/21
 Company Thomas Garner Inc Elevation 1925 KB 1914 GL
 Address 305 E 7th Ave St John, KS 67576 Rtg Sterling Rig 4
 Co. Rep / Geo. Keith Reavis Co. Stafford State KS
 Location: Sec. 6 Twp 24 Rge. 13

Interval Tested 3677-3693 Zone Tested LSG # Mud Wt. 8.9
 Anchor Length 16 Drill Pipe Run 3440 Vis 52
 Top Packer Depth 3672 Drill Collars Run 218 WL 12
 Bottom Packer Depth 3677 Wt. Pipe Run — LCM 3#
 Total Depth 3693 Chlorides 10000 ppm System

Blow Description IF- built to 8 1/2"
S11- No Return
FA- Bob in 1 1/2 min built to 27 1/2"
S12- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud w/ oil spots</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 <u>342</u>	Feet of <u>GIP</u>	%gas	%oil	%water	%mud

Rec Total 30' BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 1843
- (B) First Initial Flow 22
- (C) First Final Flow 20
- (D) Initial Shut-In 409
- (E) Second Initial Flow 16
- (F) Second Final Flow 25
- (G) Final Shut-In 397
- (H) Final Hydrostatic 1691

- Test 1200
- Jars 250
- Safety Joint 75
- Circ Sub NIA
- Hourly Standby _____
- Mileage 57.50
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1582.50

- T-On Location 13:30
- T-Started 14:01
- T-Open 06:16
- T-Pulled 18:59
- T-Out 21:25

- Comments location flooded
- EM wires under water
- out of town psy
- EM Tool Didn't work 350 NS
- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 0
- Total 1582.50

Initial Open 10
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

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

TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67786

Well Name & No. Dudrey #3 Test No. 3 Date 7/28/21
 Company Thomas Garner Inc Elevation 1925 KB 1914 GL
 Address 305 E 7th Ave St John, KS 67576
 Co. Rep / Geo. Keith Reavis Rig Sterling Rig 4
 Location: Sec. 6 Twp 24 Rge. 13 Co. Stafford State KS

Interval Tested 3846-3895 Zone Tested Miss
 Anchor Length 49 Drill Pipe Run 3600 Mud Wt. 8.8
 Top Packer Depth 3841 Drill Collars Run 218 Vis 60
 Bottom Packer Depth 3846 Wt. Pipe Run — WL 12
 Total Depth 3895 Chlorides 12000 ppm System LCM 2 1/2#

Blow Description IF- Built to 3/4"
S12- No Return
FF- No blow
S12- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</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 Total 5 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

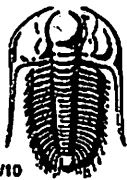
(A) Initial Hydrostatic 1979 Test 1200 T-On Location 16:30
 (B) First Initial Flow 28 Jars 250 T-Started 16:54
 (C) First Final Flow 73 Safety Joint 75 T-Open 20:25
 (D) Initial Shut-In 240 Circ Sub N/A T-Pulled 22:05
 (E) Second Initial Flow 143 Hourly Standby _____ T-Out 00:25
 (F) Second Final Flow 159 Mileage 57.50 Comments Out of town
 (G) Final Shut-In 169 Sampler _____
 (H) Final Hydrostatic 1743 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 10
 Initial Shut-In 60
 Final Flow 15
 Final Shut-In 15

EM Tool Didn't work
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1582.50

Sub Total 1582.50 MP/DST Disc't _____

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67787

Well Name & No. Dudrey #3 Test No. 4 Date 7/30/21
 Company Thomas Garner Inc Elevation 1925 KB 1914 GL
 Address 305 E 7th St John, KS 67576
 Co. Rep / Geo. Keith Reavis Rig Sterling Rig 4
 Location: Sec. 6 Twp 24 Rge. 13 Co. Stafford State KS

Interval Tested 4070 - 4015 Zone Tested Simpson
 Anchor Length 55 anchor 32' tail Drill Pipe Run 3789 Mud Wt. 9.1
 Top Packer Depth 4010 Drill Collars Run 218 Vis 44
 Bottom Packer Depth 4070 shale / 4015 tool Wt. Pipe Run 0 WL 10.4
 Total Depth 4102 Chlorides 8000 ppm System LCM 1#

Blow Description 1F - Built to 1.5"
S11 - No return
FF - No blow
S12 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>OCM</u>		<u>20%</u>	<u>70%</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 26 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2140 Test 1300 T-On Location 07:45
 (B) First Initial Flow 33 Jars 250 T-Started 08:50-51
 (C) First Final Flow 38 Safety Joint 75 T-Open 10:58
 (D) Initial Shut-In 432 Circ Sub N/A T-Pulled 12:23
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 14:48
 (F) Second Final Flow 44 Mileage 57.50 Comments out of town
 (G) Final Shut-In 396 Sampler _____ loaded tools @ 11:00
 (H) Final Hydrostatic 1805 Straddle 600 EM Tool didn't work

Initial Open 10 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 15 Extra Recorder _____ Extra Copies _____
 Final Shut-In 15 Day Standby _____ Sub Total 0
 Sub Total 2282.50 Accessibility _____ Total 2282.50 MP/DST Disc't _____

Approved By _____ Our Representative DUST DSA

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

Custom Service, LLC

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

Invoice

Date	Invoice #
8/8/2021	1976

Bill To
Tom Garner 305 E 7th Ave St. John, KS 67576

P.O. No.	Terms	Project
DUDREY	Due on receipt	

Item	Quantity	Description	Rate	Amount
Water Truck	3	08/02/2021: HAULED 160 BBLS FROM RESERVE PIT TO SWD	80.00	240.00
Water Truck	3	08/02/2021: HAULED 160 BBLS FROM RESERVE PIT TO SWD	80.00	240.00
Disposal Fee	320	08/02/2021: 320 BBLS SW TO SWD	0.30	96.00

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

Total \$576.00

OPERATOR

Company: Thomas Garner, Inc.
 Address: 305 E. 7th Avenue
 St. John, KS 67576

Contact Geologist:
 Contact Phone Nbr: 620-793-0766
 Well Name: Dudrey #3
 Location: Sec. 6 - T24S - R13W
 API: 15-185-24084-0000
 Pool:
 State: Kansas

Field: Merle
 Country: USA



Scale 1:240 Imperial

Well Name:	Dudrey #3	
Surface Location:	Sec. 6 - T24S - R13W	
Bottom Location:		
API:	15-185-24084-0000	
License Number:	33406	
Spud Date:	7/22/2021	Time: 4:30 PM
Region:	Stafford County	
Drilling Completed:	7/29/2021	Time: 9:40 PM
Surface Coordinates:	330' FNL & 1000' FEL	
Bottom Hole Coordinates:		
Ground Elevation:	1914.00ft	
K.B. Elevation:	1925.00ft	
Logged Interval:	3380.00ft	To: 4105.00ft
Total Depth:	4105.00ft	
Formation:	Arbuckle	
Drilling Fluid Type:	Chemical/Fresh Water Gel	

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -98.78790
 Latitude: 37.99879
 N/S Co-ord: 330' FNL
 E/W Co-ord: 1000' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530

Phone Nbr: 620-617-4091
 Logged By: KLG #136

Name: Keith Reavis

CONTRACTOR

Contractor: Sterling Drilling Company
 Rig #: 4
 Rig Type: mud rotary
 Spud Date: 7/22/2021

Time: 4:30 PM

ELEVATIONS

K.B. Elevation: 1925.00ft Ground Elevation: 1914.00ft
 K.B. to Ground: 11.00ft

NOTES

Due to results of drill stem testing and electrical log analysis, it was determined that the Dudrey #3 would prove non-commercial and was therefore plugged as a dry test.

A Tooke Daq gas detection system operated by Sterling Drilling was employed during the drilling of this well. ROP and gas curves were imported into this log from said system. Gamma ray and caliper curves from the electrical log suite were also imported.

Respectfully submitted,
 Keith Reavis


daily drilling report

DATE	7:00 AM DEPTH	REMARKS
07/26/2021	3467	Geologist Keith Reavis on location @0230 hrs, 3358 ft, drilling ahead Heebner, Toronto, Douglas, Lansing, show and kick in F warrants test, short trip, TOH for DST #1, conducting DST #1
07/27/2021	3636	complete DST #1, successful test, TIH w/bit, resume drilling, show and kick in H zone warrant test, TOH w/bit and in w/tools, conduct and complete DST #2, successful test. Out with tools and back in w/bit, resume drilling
07/28/2021	3806	drilling ahead, lower LKC, BKC, Miss, gas kick and show in Miss warrants test, short trip, conduct and complete DST #3, successful test, pull tools
07/29/2021	3955	trip in w/bit, ctoh, resume drilling, Kinderhook, Viola, Simpson, Arbuckle TD 4105' @ 2140 hrs, start out of hole for logs
07/30/2021	4105	conduct open hole logging operations, completed 0600 hrs, decided it was necessary to condemn Simpson with straddle test, conduct DST #4

well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
Dudrey #3					Garner - #1-6 Dudrey				#1-31 Mansel			
330' FSL & 1000' FEL					NE NE NE				SW SE SE			
Sec 6-T24S-R13W					Sec 6-T24S-R13W				Sec 31-T23S-R13W			
1925 KB					1917 KB		Structural Relationship		1913 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	3396	-1471	3391	-1466	3383	-1466	-5	0	3392	-1479	8	13
Toronto	3416	1491	3410	1485	3404	1487	4	2	3411	1490	7	13
Douglas	3435	-1510	3430	-1505	3426	-1509	-1	4	3430	-1517	7	12
Brown Lime	3529	-1604	3526	-1601	3518	-1601	-3	0	3524	-1611	7	10
Lansing	3555	-1630	3551	-1626	3545	-1628	-2	2	3552	-1639	9	13
Lansing F	3623	-1698	3622	-1697	3614	-1697	-1	0	3620	-1707	9	10
Lansing H	3682	-1757	3680	-1755	3669	-1752	-5	-3	3683	-1770	13	15
BKC	3820	-1895	3813	-1888	3802	-1885	-10	-3	3814	-1901	6	13
Mississippian	3880	-1955	3879	-1954	3870	-1953	-2	-1	3878	-1965	10	11
Kinderhook	3904	-1979	3903	-1978	3884	-1967	-12	-11	3904	-1991	12	13
Viola	3951	-2026	3950	-2025	3927	-2010	-16	-15	3946	-2033	7	8
Simpson	4019	-2094	4015	-2090	4011	-2094	0	4	4016	-2103	9	13
Simpson Sand	4037	-2112	4032	-2107	4030	-2113	1	6	4028	-2115	3	8
Arbuckle	4073	-2148	4069	-2144	4067	-2150	2	6	4062	-2149	1	5
Total Depth	4105	-2180	4102	-2177	4128	-2211	31	34	4126	-2213	33	36

Drill Stem Test #1

 <p>TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT	
	Thomas Garner Inc. 305 E. 7th Ave. Okla. KS63737	6_24_13 Stafford, KS Dudrey #3



ATTN: Keith Reives

Test Start: 2021.07.26 @ 20:40:00

GENERAL INFORMATION:Formation: **LSG K**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 00:17:30

Time Test Ended: 05:36:45

Test Type: Conventional Bottom Hole (hit)

Tester: Dustin Day

Unit No: 70

Interval: **3612.00 ft (KB) To 3636.00 ft (KB) (TVD)**

Reference Elevations: 1925.00 ft (KB)

Total Depth: 3636.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches -ole Condition:

1914.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8167

Outside

Press@RunDepth: 138.52 psig @ 3613.00 ft (KB)

Start Date: 2021.07.26

Start Time: 20:40:05

End Date:

End Time:

2021.07.27

05:36:45

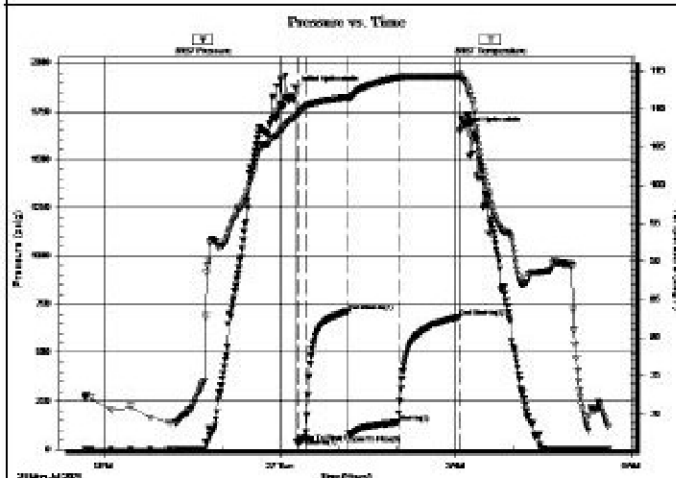
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2021.07.27 @ 00:15:45

Time Off Btm: 2021.07.27 @ 03:04:15

TEST COMMENT: IF- BOB in 4 min Built to 23"
 SI1- No return
 FF- BOB in 20 min Built to 22.5"
 SI2- No return

**PRESSURE SUMMARY**

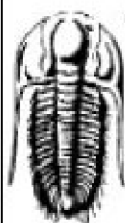
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1865.20	108.99	Initial Hydro-static
2	39.96	109.22	Open To Flow(1)
11	61.54	110.26	Shut-In(1)
55	713.01	111.47	End Shut-In(1)
55	77.72	111.31	Open To Flow(2)
106	136.52	114.05	Shut-In(2)
168	683.90	114.23	End Shut-In(2)
169	1653.18	114.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	WCM w/ Oil spots 80% mud 9% w 1%	0.31
62.00	MCW 70% w ater 30% mud	0.30
124.00	MCW 82% w ater 18% Mud	0.89

Gas Rates

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

Drill Stem Test #2**TRILOBITE TESTING, INC****DRILL STEM TEST REPORT**

Thomas Garner Inc.

305 E. 7th Ave.
St. John, KS 67576

ATTN: Keith Reives

6_24_13 Stafford, KS

Dudrey #3

Job Ticket: 67785

DST#: 2

Test Start: 2021.07.27 @ 14:01:00

GENERAL INFORMATION:Formation: **LSG H**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 16:16:00

Time Test Ended: 21:25:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: **3677.00 ft (KB) To 3693.00 ft (KB) (TVD)**

Reference Elevations: 1925.00 ft (KB)

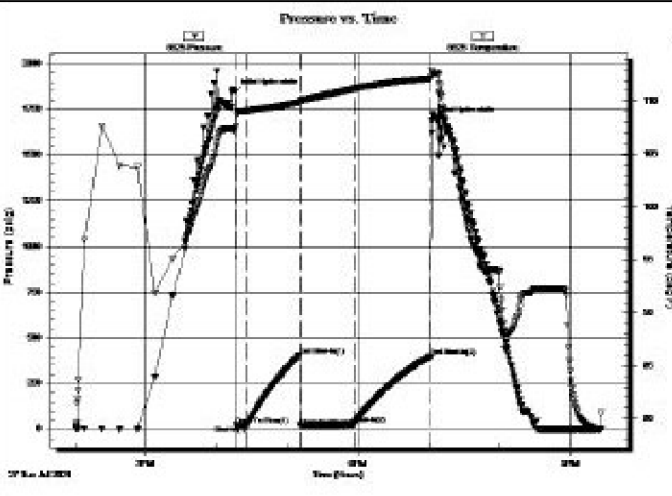
Total Depth: 3693.00 ft (KB) (TVD)

1914.00 ft (CF)

Total Depth: 3895.00 ft (KB) (TVB) KB to GR/CF: 11.00 ft

Serial #: 6625 Inside
 Press@RunDepth: 25.14 psig @ 3678.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.07.27 End Date: 2021.07.27 Last Calib.: 2021.07.27
 Start Time: 14:01:05 End Time: 21:25:44 Time On Btm: 2021.07.27 @ 16:15:30
 Time Off Btm: 2021.07.27 @ 19:02:15

TEST COMMENT: IF- Built to 8.5"
 SI1- no return
 FF- BOB in 1 min, Built to 27.5"
 SI2- No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1843.78	107.25	Initial Hydro-static
1	22.22	107.66	Open To Flow (1)
11	20.27	109.09	Shut-In (1)
55	403.99	109.90	End Shut-In (1)
56	16.39	109.94	Open To Flow (2)
101	25.14	111.17	Shut-In (2)
166	397.82	112.19	End Shut-In (2)
167	1691.80	112.67	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	mud 100%	0.15
0.00	342' gas in pipe	0.00

* Recovery from multiple tests

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/D)

Drill Stem Test #3

	DRILL STEM TEST REPORT	
	Thomas Garner Inc. 305 E 7th Ave. St. John, KS 67576 ATTN: Keith Reives	6_24_13 Stafford, KS Dudrey #3 Job Ticket: 67766 DST#3 Test Start: 2021.07.28 @ 16:50:00

GENERAL INFORMATION:

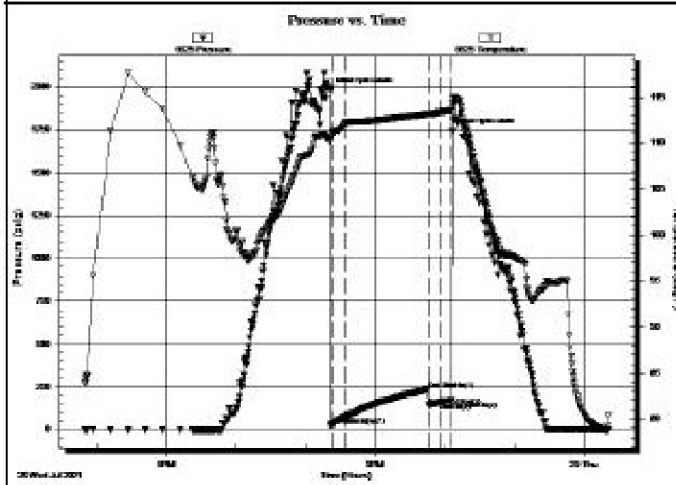
Formation: **miss**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 20:23:00
 Time Test Ended: 00:21:15

Interval: **3846.00 ft (KB) To 3895.00 ft (KB) (TVD)**
 Total Depth: 3636.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches -hole Condition: KB to GR/CF: 11.00 ft

Test Type: Conventional Bottom Hole (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 1925.00 ft (KB)
 1914.00 ft (CF)

Serial #: 6625 Inside
 Press@RunDepth: 159.91 psig @ 3847.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.07.28 End Date: 2021.07.29 Last Calib.: 2021.07.29
 Start Time: 16:50:05 End Time: 00:21:14 Time On Btm: 2021.07.28 @ 20:20:30
 Time Off Btm: 2021.07.28 @ 22:06:30

TEST COMMENT: IF- built to .75"
 SI1- no return
 FF- NO blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1979.27	110.52	Initial Hydro-static
3	28.60	111.02	Open To Flow(1)
14	73.37	112.00	Shut-In(1)
86	240.09	113.14	End Shut-In(1)
86	143.45	113.13	Open To Flow(2)
96	159.91	113.31	Shut-In(2)
106	169.60	113.51	End Shut-In(2)
106	1743.12	114.20	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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

Drill Stem Test #4

	DRILL STEM TEST REPORT	
	Thomas Garner Inc. 305 E. 7th Ave. St. John, KS 67576 ATTN: Keith Reavis	6-24s-13w Stafford, KS Dudley #3 Job Ticket: 67787 DST#: 4 Test Start: 2021.07.30 @ 08:50:00

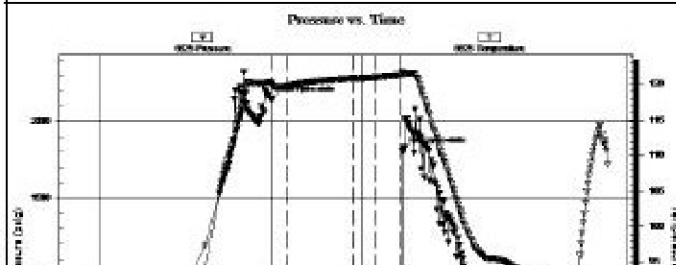
GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 10:58:15
 Time Test Ended: 14:47:15
 Interval: **4015.00 ft (KB) To 4070.00 ft (KB) (TVD)**
 Total Depth: 4102.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches -hole Condition:

Test Type: Conventional Straddle (Reset)
 Tester: Dustin Day
 Unit No: 70
 Reference Elevations: 1925.00 ft (KB)
 1914.00 ft (CF)
 KB to GR/CF: 11.00 ft

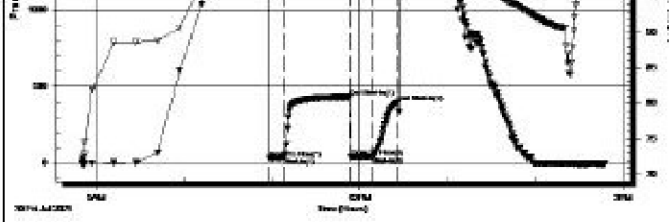
Serial #: 6625 Inside
 Press@RunDepth: 44.74 psig @ 4024.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.07.30 End Date: 2021.07.30 Last Calib.: 2021.07.30
 Start Time: 08:50:05 End Time: 14:47:14 Time On Btm: 2021.07.30 @ 10:56:00
 Time Off Btm: 2021.07.30 @ 12:27:15

TEST COMMENT: IF- built to 1.5"
 SI1- no return
 FF- no blow
 SI2- no return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.96	120.19	Initial Hydro-static
1	33.71	119.77	Open To Flow(1)
10	36.04	119.73	Shut-In(1)
55	432.70	120.87	End Shut-In(1)
56	41.14	120.83	Open To Flow(2)
71	44.74	121.01	Shut-In(2)



88	396.93	121.32	End Shut-In(2)
90	1805.59	121.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 20% oil 80% mud	0.10

* Recovery from multiple tests

Gas Rates

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

ROCK TYPES

Chert	sdy lmst	shale, grn	shale, red	Cannot Int
Chert vari	Lmst fw<7	shale, gry	Shcol	
Dolprim	Lmst fw7>	Carbon Sh	Ss	

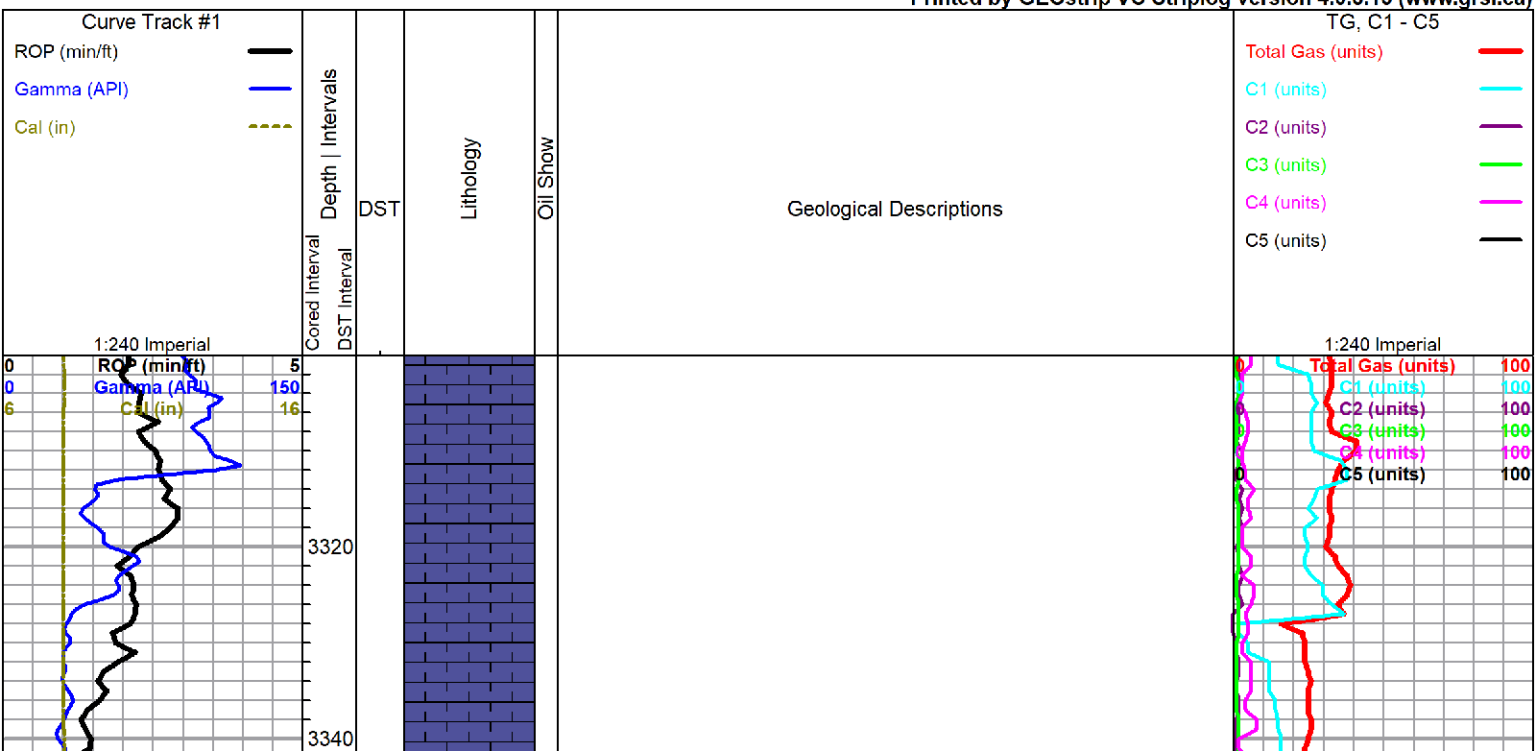
ACCESSORIES

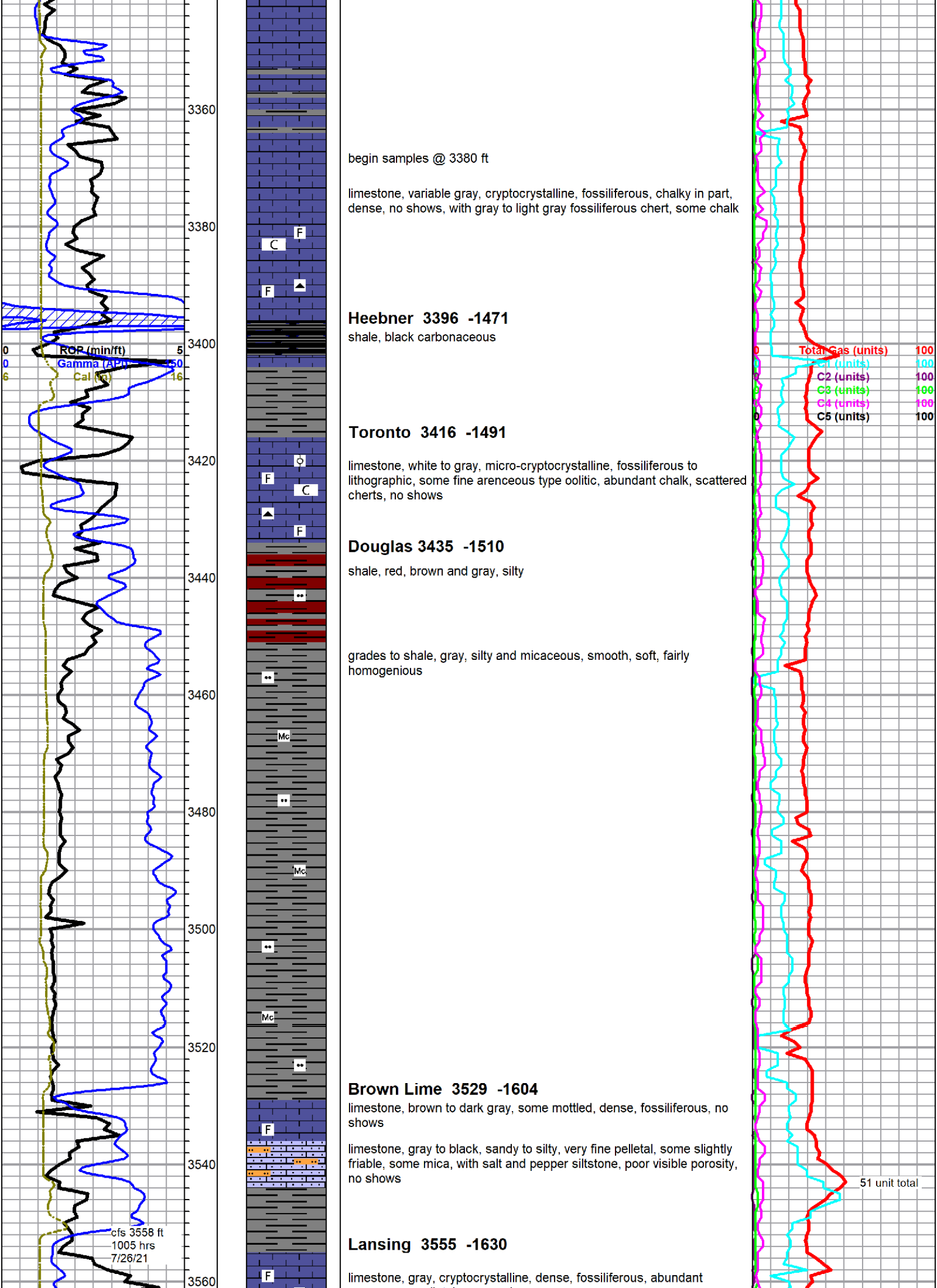
MINERAL	FOSSIL	STRINGER	TEXTURE
▲ Chert, dark	∩ Bioclastic or Fragmental	■ Limestone	C Chalky
P Pyrite	F Fossils < 20%	● Sandstone	
∞ Silty	⊙ Oolite	■ Siltstone	
△ Chert White	⊕ Pellets	■ green shale	
Mc Mica	⊗ Oomoldic		
∕ Euhed rhombs of dol or			

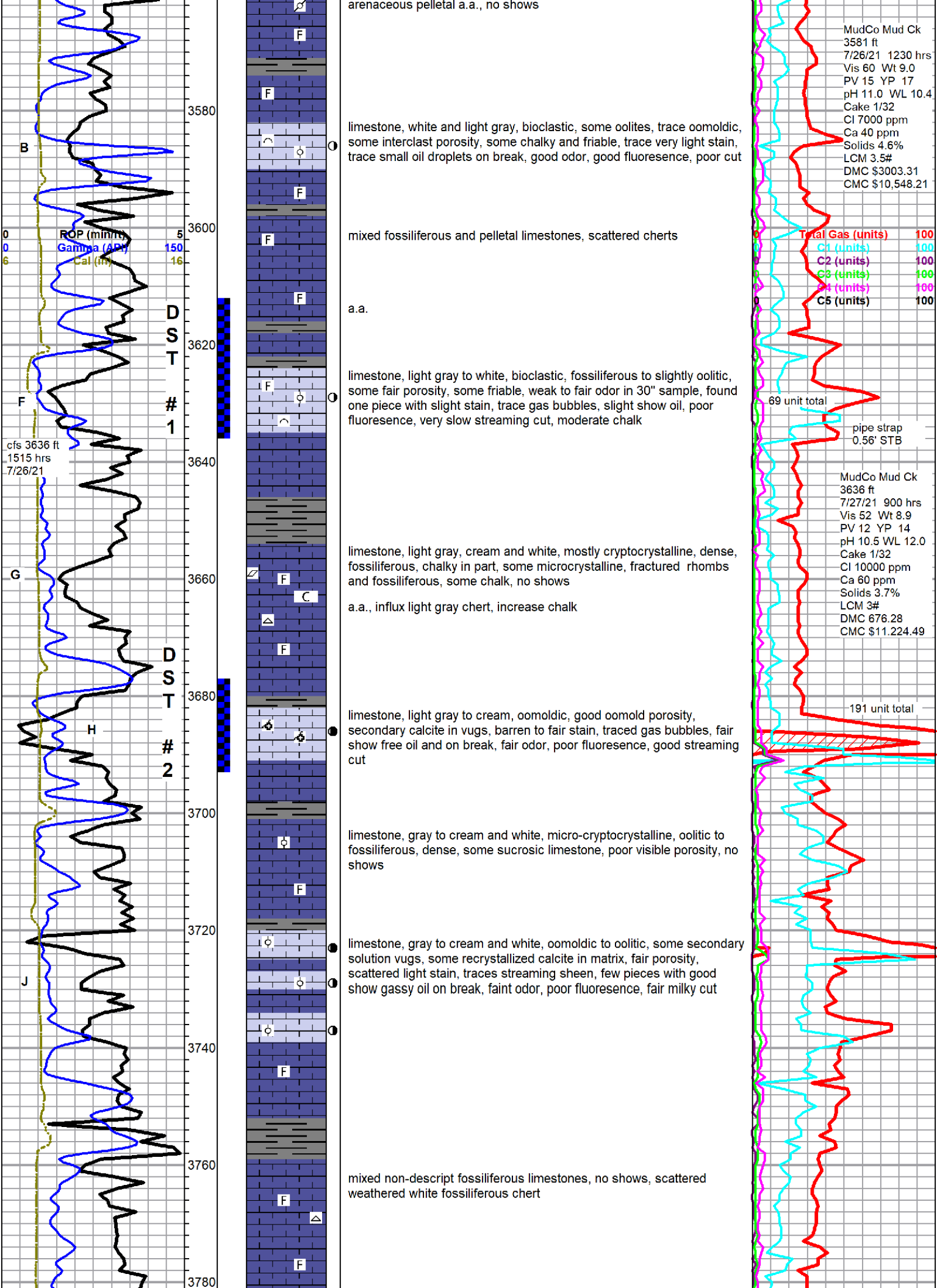
OTHER SYMBOLS

Oil Show	DST
● Good Show	■ DST Int
● Fair Show	■ DST alt
○ Poor Show	■ Core
○ Spotted or Trace	tail pipe
○ Questionable Stn	
D Dead Oil Stn	
■ Fluorescence	
* Gas	

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arenaceous pelletal a.a., no shows

limestone, white and light gray, bioclastic, some oolites, trace oomoldic, some interclast porosity, some chalky and friable, trace very light stain, trace small oil droplets on break, good odor, good fluorescence, poor cut

mixed fossiliferous and pelletal limestones, scattered cherts

a.a.

limestone, light gray to white, bioclastic, fossiliferous to slightly oolitic, some fair porosity, some friable, weak to fair odor in 30" sample, found one piece with slight stain, trace gas bubbles, slight show oil, poor fluorescence, very slow streaming cut, moderate chalk

limestone, light gray, cream and white, mostly cryptocrystalline, dense, fossiliferous, chalky in part, some microcrystalline, fractured rhombs and fossiliferous, some chalk, no shows

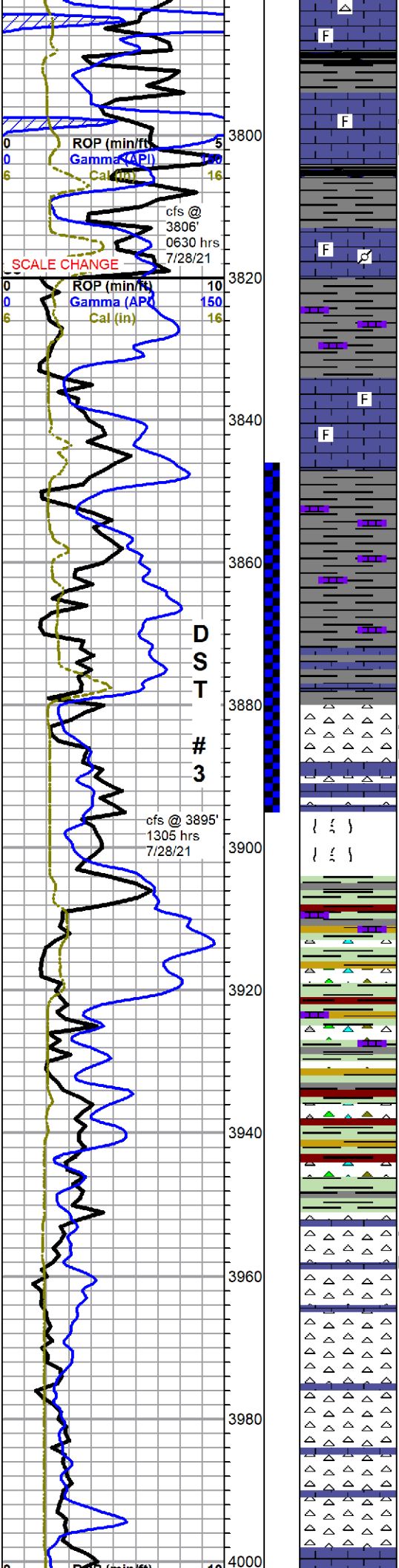
a.a., influx light gray chert, increase chalk

limestone, light gray to cream, oomoldic, good oomold porosity, secondary calcite in vugs, barren to fair stain, traced gas bubbles, fair show free oil and on break, fair odor, poor fluorescence, good streaming cut

limestone, gray to cream and white, micro-cryptocrystalline, oolitic to fossiliferous, dense, some sucrosic limestone, poor visible porosity, no shows

limestone, gray to cream and white, oomoldic to oolitic, some secondary solution vugs, some recrystallized calcite in matrix, fair porosity, scattered light stain, traces streaming sheen, few pieces with good show gassy oil on break, faint odor, poor fluorescence, fair milky cut

mixed non-descript fossiliferous limestones, no shows, scattered weathered white fossiliferous chert



limestone, light gray to white, grainy weathered bioclastic and oolitic, some pinpoint porosity, no odor in wet cup, black to brown stain, gilsonite and dead tarry oil droplets, trace gas bubbles, spotty light fluorescence, poor cut

limestone, variable dense fossiliferous, scattered white and gray mottled pelletal, chalky, no shows

Base KC 3820 -1895

mostly limestones in samples, gray to gray-green lithographic and fossiliferous, dense, abundant chalky light gray to white, brown and maroon fossiliferous, one piece cherty stained oolitic, shales change to gray /maroon (limestone streaks in washed out shale?)

mixed limestones a.a., no shows

3860 sample, flood shales, lavender and gray, limestone streaks with limestone a.a. - red wash in samples with only trace red shales

influx limestone, maroon to gray, dense cherty arenaceous to friable argillaceous, with orange, yellow and tan chert

Mississippian 3880 -1955

chert, white, tripolitic to sub-tripolitic, some rotten, some fair pinpoint porosity and fractures, well stained, fair show of oil on break, some free oil, no odor, poor fluorescence, good instant cut

60 min cfs, influx white chalky limestone, lithographic with dolomitic texture, barren

trip trash, poor samples

Kinderhook 3904 -1979

shales, primarily lavender, with mixed grays, green, yellow and red, abundant orange and yellow cherts, mixed limestones, large loose quartz grains - this is basically conglomeritic

Viola 3951 -2026

chert, white, mostly boney and fresh, some light gray translucent fossiliferous, some pale green, scattered spotty edge staining with maybe 2% dark saturated stain, trace tripolitic, no free oil or odor, minor amounts white to light gray limestone, some light fluorescence

limestone, white to light gray, grainy fossiliferous, chalky but dense, no

Total Gas (units) 100
 C1 (units) 100
 C2 (units) 100
 C3 (units) 100
 C4 (units) 100
 C5 (units) 100

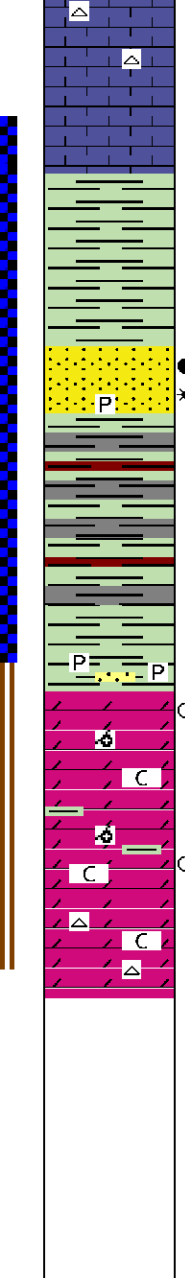
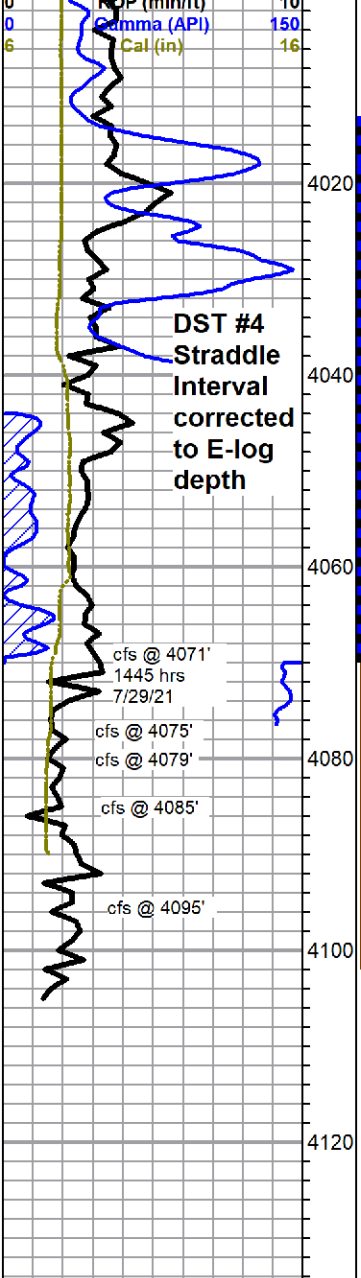
MudCo Mud Ck
 3825 ft
 7/28/21 0845 hrs
 Vis 60 Wt 8.8
 PV 12 YP 18
 pH 10.5 WL 12.0
 Cake 1/32
 Cl 10000 ppm
 Ca 40 ppm
 Solids 3.0%
 LCM 2.5#
 DMC \$1944.33
 CMC \$13168.82

156 unit total

re-cycle

MudCo Mud Ck
 4008 ft
 7/29/21 1030 hrs
 Vis 60 Wt 9.1
 PV 14 YP 16
 pH 10.5 WL 13.2
 Cake 1/32
 Cl 10000 ppm
 Ca 100 ppm
 Solids 5.1%
 LCM 1#
 DMC \$457.68
 CMC \$13626.50

Total Gas (units) 100



limestone, white to light gray, grainy fossiliferous, chunky but dense, no shows, still carrying abundant cherts from above

Simpson 4019 -2094
 poor samples, covered up in cherts from above

Simpson Sand 4037 -2112
 sandstone, quartz, fine - very fine grain, sub-round to rounded, fair sorting, medium cementing, fair porosity, strong odor, light brown to gray/black stain, good show gassy oil on break, poor fluorescence, very slow streaming cut, becomes pyritic in cfs samples

gray and green shales, still mostly chert in samples

abundant pyrite base of Simpson, some brown dirty sand

Arbuckle 4073 -2148
 dolomite, gray, microcrystalline, sucrosic to sub-sucrosic, mostly very dense, few pieces with some small vugs, traces sub-oomoldic, no stain, slight show of oil on break, fleeting odor, good fluorescence, faint cut

deeper cfs samples... abundant barren cryptocrystalline, cream to light gray, very dense, faint sour odor

4085 60 min, influx gray, microcrystalline, sub-rhombic, some intercrystalline porosity, barren, abundant caliche, questionable fleeting odor

4095 cfs, dolomites a.a., slight increase oomoldic, increase caliche with soft pale green shale, found 2 very cherty and 2 oolitic specimens with small solution vugs and few oil droplets on break, no staining, otherwise barren, possible fleeting odor

4105 cfs samples, a.a. with influx white boney chert

RTD 4105 ft 2140 hrs 7/29/21
Midwest Wireline TD 4102 ft
Complete logging operations 0600 hrs 7/30/21

