

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	CHERI #1
Doc ID	1710021

Tops

Name	Top	Datum
Heebner Shale	4233	-2050
Brown Lime	4398	-2215
Lansing	4416	-2233
Stark	4688	-2505
B/KC	4844	-2661
Cherokee Shale	4991	-2808
Miss	5100	-2917
Viola	5462	-3279

Form	ACO1 - Well Completion
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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	597	Common	300	2% Gel 3% CC
Production	7.875	4.5	10.5	5624	Pro C	170	10% Salt, 6# Koseal

QUALITY WELL SERVICE, INC.

8213

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-786-6992

Fax 620-672-3663

Todd's Cell 620-388-4967

Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-11-23	27	30S	13W	KIOWA	Ks		
Lease	Well No.		Location				
CHERI	1		GREENSBURG, Ks S to Co line E to 33AVE				
Contractor	MURFIN DELG RIG #104			Owner			
Type Job	SURFACE			To Quality Well Service, Inc.			
Hole Size	12 1/4			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg.	85/10 23'			Charge To			
Tbg. Size	Depth			Griffin			
Tool	Depth			Street			
Cement Left in Csg.	Shoe Joint			City			
Meas Line	Displace			State			
			42.10			The above was done to satisfaction and supervision of owner agent or contractor.	
			35.45 Bbls			Cement Amount Ordered	
						380 sc Common	
EQUIPMENT				2 1/2" GEL 3 1/2" CL 1/2" PS			
Pumptrk	No.			Common			
Bulktrk	No.			380			
Bulktrk	No.			Poz. Mix			
Pickup	No.			Gel. 714"			
				Calcium 1072"			
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal 190"			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Run 14 H's 85/10 23' Csg SET @ 596'				Sand			
START Csg Csg on Bottom				Handling 410			
Hook up to Csg & Break circ w/26				Mileage 48/12000			
START Pumptrk H2O				85/10 FLOAT EQUIPMENT			
START mic Pump 380 sc Common				Guide Shoe 11' in 1 EA			
2 1/2" GEL 3 1/2" CL 1/2" PS @ 14.0" / cal				Centralizer BAFFLE PLATE 1 EA			
SLIT DOWN RELEASE 85/10 WOODEN Plug				Baskets WOODEN Plug 1 EA			
START DISP				AFU Inserts			
Plug down 350"				Float Shoe			
Close Valve on Csg 350"				Latch Down			
Good circ thru JOG							
Circ CMT TO P-T				SERVICE SPN 1 EA			
				Pumptrk Charge SURFACE II			
				Mileage 90			
THANK YOU				Tax			
PLEASE CALL AGAIN				Discount			
TODD 1924A2 x 2				Total Charge			
Signature							

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Quality" shall mean Quality Well Service, 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 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 limited 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 charge 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 constructed 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 WELL SERVICE, INC.

8222

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

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Date	1-19-23	Sec.	27	Twp.	30S	Range	13W	County	KL	State	Ks	On Location		Finish	
Lease	CHEE	Well No.	41	Location Greenburg R1 S to Co line E to 33rd											
Contractor	Muefin D216 2.6" 104							Owner	1 1/2" N Winto						
Type Job	4 1/2" LS							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	7 7/8							T.D.	5632'						
Csg.	4 1/2" 11.6'							Depth	5024'						
Tbg. Size								Charge To	Gaffin						
Tool								Street							
Cement Left in Csg.								City	State						
Meas Line								Shoe Joint	21.53						
								Displace	0.6194						
EQUIPMENT								Cement Amount Ordered 2005x Proc 2 1/2" GAL 10 1/2" 50 ft							
Pumptrk	8	No.		5 1/4" Kol Seal 6 1/4" C16A 25 1/4" C41P 25 1/4" P1											
Bulktrk	10	No.		Common 2005x											
Bulktrk		No.		Poz. Mix											
Pickup		No.		Gel. 376"											
JOB SERVICES & REMARKS								Calcium							
								Hulls							
Rat Hole	305x							Salt 1101#							
Mouse Hole								Flowseal							
Centralizers	1-2-3-4-5-6-7							Kol-Seal 1000#							
Baskets								Mud CLR 48 500 GAL							
D/V or Port Collar								CFL-117 or CD110 CAF 38 C16A 113"							
Run 4 1/2" 11.6" Csg set 5624'								Sand CC-1 9 GAL C41P 47"							
START Csg Csg on Bottom: TAG Drop Ball								Handling 249							
Hook up to Csg & Break C16A w/216								Mileage 43/11952							
START Pumping 10 Bulktrk 12 Bulktrk 12 Bulktrk 12								10 4 1/2" FLOAT EQUIPMENT							
START Plug R Hole 305x								Guide Shoe 14" m 1 EA							
START Mix Pump 1705x Proc 4 Csg 14.8 3 1/4" GAL								Centralizer 7 EA							
SHUT DOWN wash up to Release 4 1/2" 10								Baskets							
START Disp w/2 1/2" KCL								AFU Inserts							
LEFT PS 1750 at 550'								Float Shoe 1 EA							
Plug Down 369 at 1200'								Latch Down 1 EA							
PS up Csg 1700#								SERVICE SPV 1 EA							
RELEASE & HELD 1/4 Bbl Bx1								LMV 4B							
LOST C16A 15 Bbl								Pumptrk Charge LS							
GOOD C16A AFTER that								Mileage 96							
THANK YOU															
PLEASE CALL AGAIN TODD BRADY															
Signature								Tax							
								Discount							
								Total Charge							

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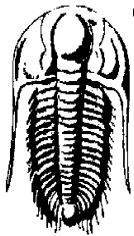
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charles N Griffin

126 S Main St
Pratt, KS 67124

ATTN: Eli Felts

27-30S-18W Kiowa

Cheri 1

Job Ticket: 69287

DST#: 1

Test Start: 2023.01.15 @ 01:32:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:25:47

Time Test Ended: 09:30:02

Interval: 4886.00 ft (KB) To 4920.00 ft (KB) (TVD)

Total Depth: 4920.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 72

Reference Elevations: 2183.00 ft (KB)

2179.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 8372 Inside

Press@RunDepth: 46.59 psig @ 4892.00 ft (KB)

Start Date: 2023.01.15

End Date:

2023.01.15

Start Time: 01:32:00

End Time:

09:30:02

Capacity: psig

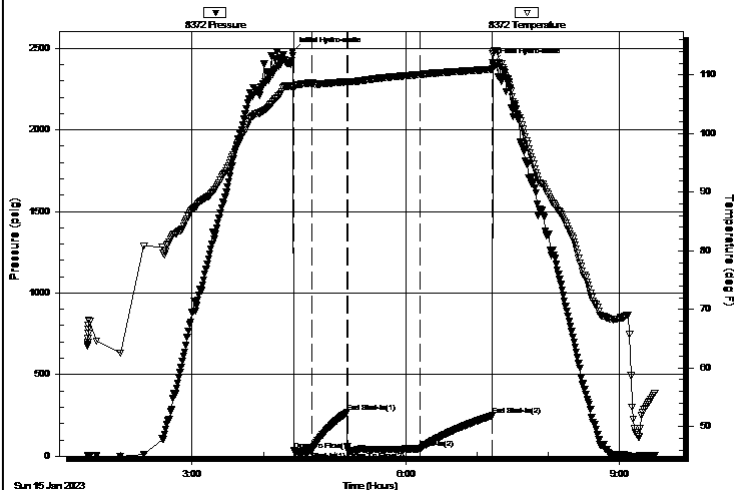
Last Calib.: 2023.01.15

Time On Btm: 2023.01.15 @ 04:24:32

Time Off Btm: 2023.01.15 @ 07:13:17

TEST COMMENT: IF: Strong Blow , BOB in 2 minutes, Built to 28.51"
IS: No Blow Back
FF: Strong Blow , BOB in 3 minutes, Built to 36.97"
FS: No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2480.07	108.16	Initial Hydro-static
2	35.19	107.78	Open To Flow (1)
17	30.86	108.66	Shut-In(1)
46	267.57	108.84	End Shut-In(1)
47	31.46	108.85	Open To Flow (2)
108	46.59	110.09	Shut-In(2)
169	247.87	111.04	End Shut-In(2)
169	2412.30	113.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	930' GIP	0.00
60.00	SOSM 1% O 99%M	0.30

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Serial #: 8372

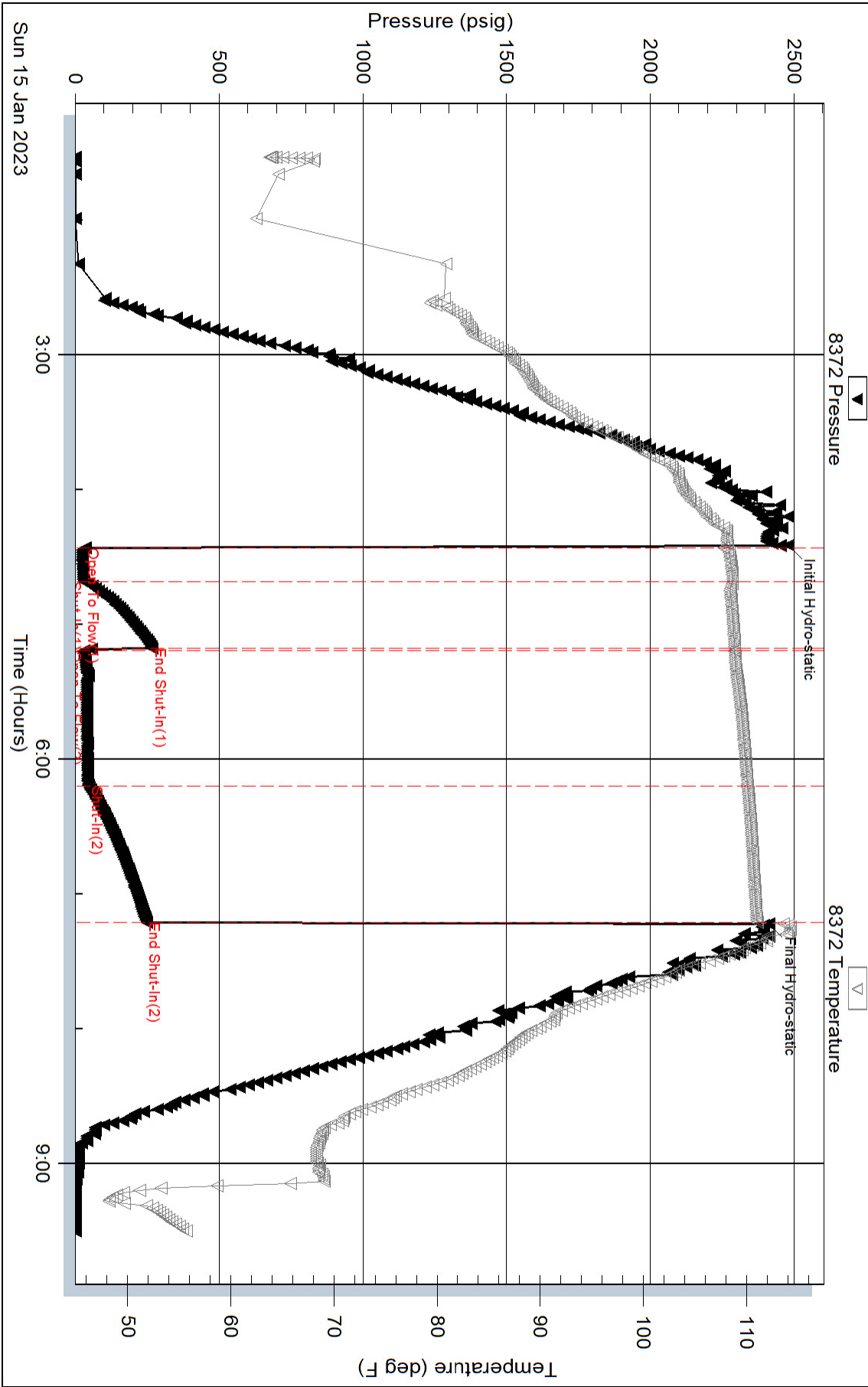
Inside

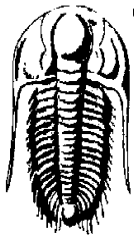
Charles N Griffin

Cheri 1

DST Test Number: 1

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charles N Griffin

126 S Main St
Pratt, KS 67124

ATTN: Eli Felts

27-30S-18W Kiowa

Cheri 1

Job Ticket: 69288

DST#: 2

Test Start: 2023.01.16 @ 01:05:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:26:17

Time Test Ended: 06:37:02

Interval: 5076.00 ft (KB) To 5110.00 ft (KB) (TVD)

Total Depth: 5110.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 72

Reference Elevations: 2183.00 ft (KB)

2179.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 8372 **Inside**

Press@RunDepth: psig @ 5082.00 ft (KB)

Start Date: 2023.01.16

End Date:

2023.01.16

Start Time: 01:05:00

End Time:

06:37:02

Capacity: psig

Last Calib.:

2023.01.16

Time On Btm:

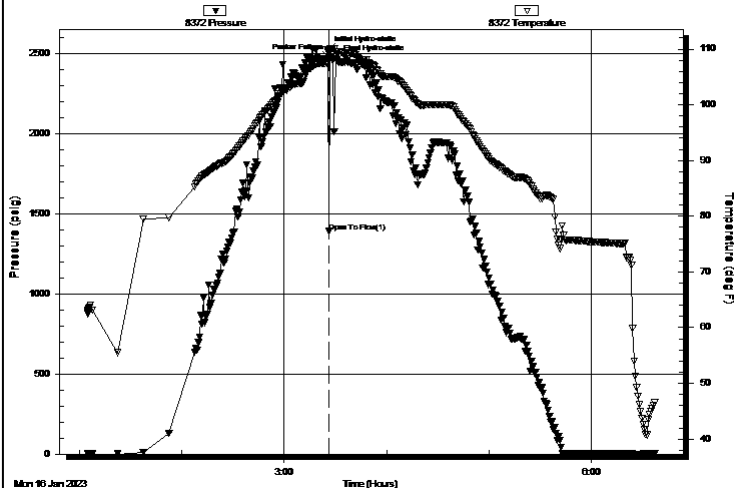
2023.01.16 @ 03:25:17

Time Off Btm:

2023.01.16 @ 03:30:32

TEST COMMENT: IF: Packer Failure, Tried To Reset, Failed, Pulled Test

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2519.87	107.46	Initial Hydro-static
1	1388.80	107.89	Open To Flow (1)
2	2468.50	109.63	Packer Failure
6	2460.86	109.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Drig Mud	2.31

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests

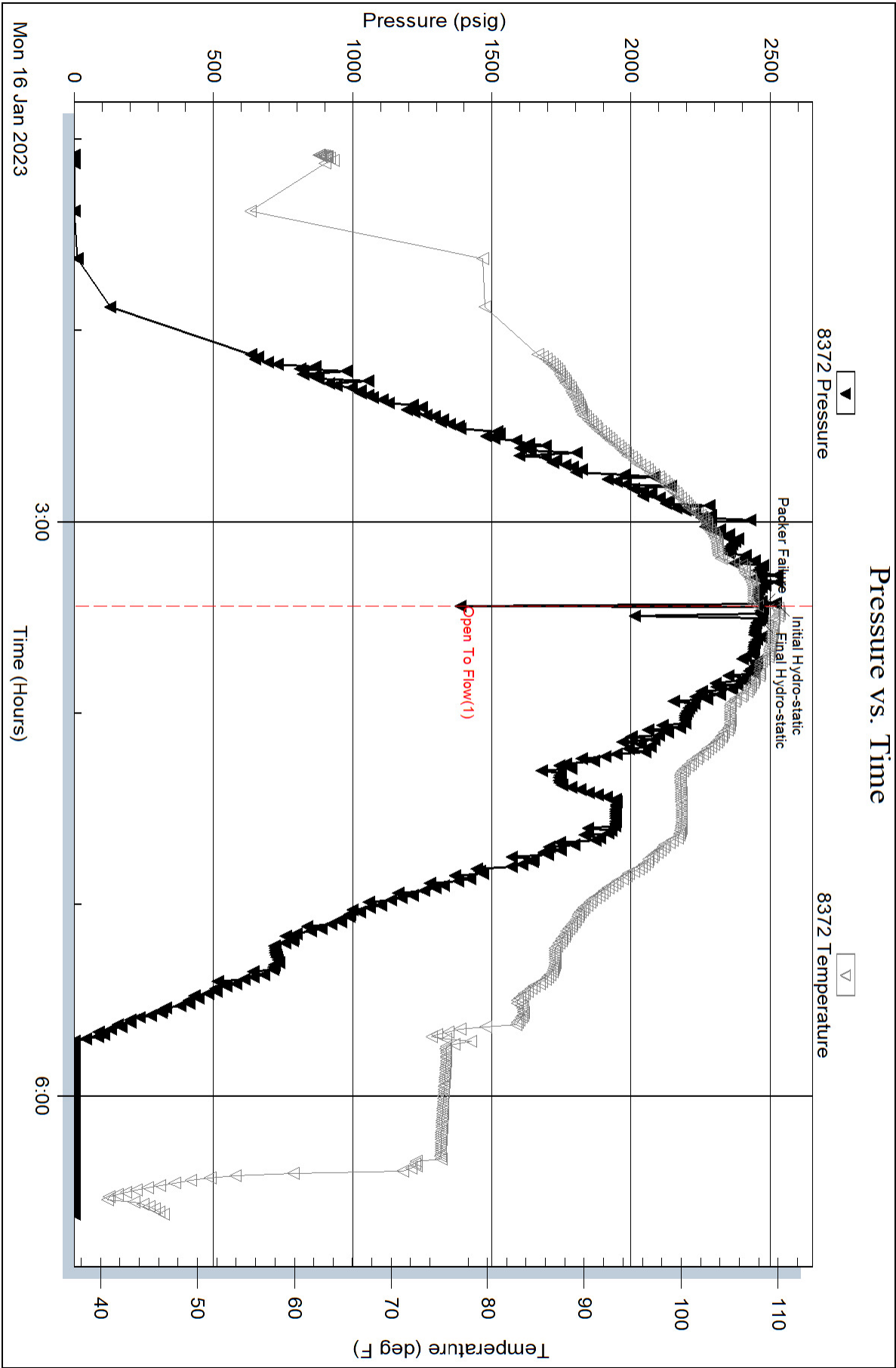
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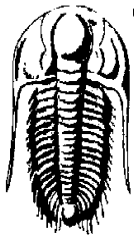
Inside

Charles N Griffin

Cheri 1

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Charles N Griffin

126 S Main St
Pratt, KS 67124

ATTN: Eli Felts

27-30S-18W Kiowa

Cheri 1

Job Ticket: 69289

DST#: 3

Test Start: 2023.01.16 @ 13:40:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:52:47

Time Test Ended: 18:44:17

Interval: 5082.00 ft (KB) To 5110.00 ft (KB) (TVD)

Total Depth: 5110.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 72

Reference Elevations: 2183.00 ft (KB)

2179.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 8372 Inside

Press@RunDepth: psig @ 5088.00 ft (KB)

Start Date: 2023.01.16

End Date:

2023.01.16

Start Time: 13:40:00

End Time:

18:44:17

Capacity: psig

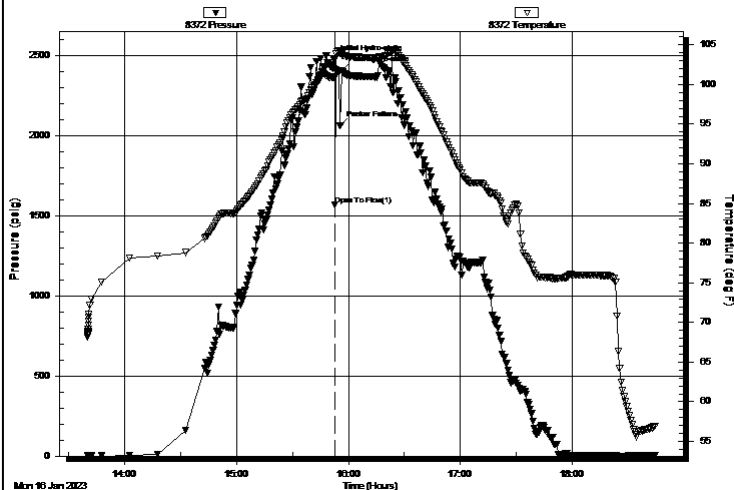
Last Calib.: 1899.12.30

Time On Btm: 2023.01.16 @ 15:52:17

Time Off Btm: 2023.01.16 @ 15:56:32

TEST COMMENT: IF: Packer Failure, Tried To Reset, Failed, Pulled Tool

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2475.96	100.88	Initial Hydro-static
1	1567.29	100.90	Open To Flow (1)
4	2062.43	103.99	Packer Failure
5	2404.75	103.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	Drig Mud	3.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests

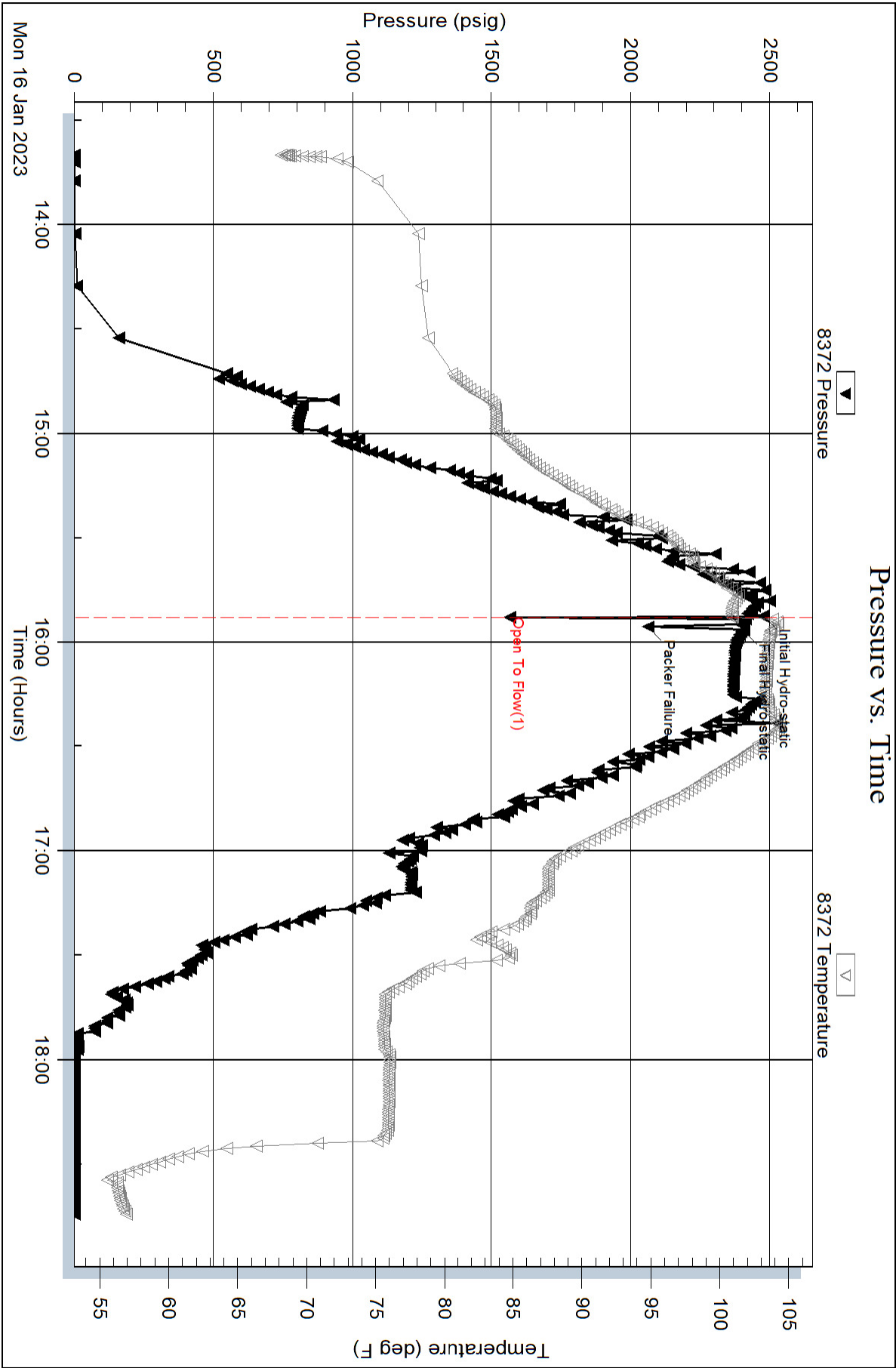
Serial #: 8372

Inside

Charles N Griffin

Cheri 1

DST Test Number: 3



Griffin Management, LLC

Cheri #1

04/10/2023

MIR CCOS Rig #1 Spot in shut down

04/11/2023

RU Rig. RU Log tech Run CBL/GR

LTD-5598'

TOC-4100'

Perfs-5146'-5145' 3spf

Unload Tubing Tally and run tubing and 4.5" packer.

165 joints 2-3/8" tubing set packer 5118' RU swab

IFL-surface swab down 26 bbls. No show of oil or gas shut in well shut down.

4/12/23

TP Sli blow

1st swab recovered 400' fresh water with 1/2 TOB oil

2nd swab recovered 0' dry

Released packer. PU 1 jt and a 6' tubing sub.

RU Tiger Chemical. Pumped 20.9 bbls to spot

Laid down 1 jt and 6' sub. Reset packer at 5188'. Tiger pumped 1000 gals 15% MCA acid.

Breakdown 1000# Started Treating 2.5 bpm 800#.
Finished treating 2.5 bpm 600# ISIP vacuum. Total load
44.5 bbls. RU to swab.

IFL 1000'

Swabbed down and recovered 18 bbls

1st swab recovered 400' 4% OC

2nd swab recovered 250' 5% OC

Total swabbed back 20 bbls

Wait 15 mins recovered 150' 5% OC

Wait 15 mins recovered 100' 4% OC

Wait 30 mins recovered 200' 7% OC

Swabbed 2 bbls

Wait 30 mins recovered 200' 5% OC

Wait 30 mins recovered 200' 4% OC

Swabbed 1 bbls

Open bypass and swabbed 10 bbls

Wait 30 mins recovered 200' 5% OC

Wait 30 mins recovered 200' 5% OC

Swabbed 1 bbl

Total back today 24 bbls

Shut in well

4/13/23

TP 0# RU swab. IFL 4000'

1st swab recovered 1000' 20' oil on top

2nd swab recovered 400' acid water

3rd swab recovered 300' acid water TOB oil

4th swab recovered 200' acid water TOB oil

Recovered 8 bbls

Wait 15 mins recovered 100' TOB oil

Wait 30 mins recovered 150' TOB oil

Wait 30 mins recovered 150' TOB oil

Wait 30 mins recovered 150' TOB oil

Wait 30 mins recovered 150' TOB oil

Wait 30 mins recovered 150' TOB oil

Wait 30 mins recovered 150' TOB oil

Wait 30 mins recovered 150' TOB oil

Recovered 3.2 bbls. Total today 11.3 bbls

Total load back 35.2 bbls. Shut in well.

