

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	Farmer, John O., Inc.
Well Name	DON 1
Doc ID	1516232

Tops

Name	Top	Datum
Anhydrite	899'	(+931)
Topeka	2657'	(-827)
Heebner	2906'	(-1076)
Toronto	2926'	(-1096)
Lansing	2956'	(-1126)
B/KC	3208'	(-1378)
Arbuckle	3273'	(-1443)
L.T.D.	3351'	(-1521)

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. 1881

Date	1-22-20	Sec.	28	Twp.	11	Range	15	County	Russell	State	Ks	On Location		Finish	3:45 AM
Lease								Well No.		Location					
Don								1		Gocham - N to Saline Rd, 1/2 E, 2N, w + SW to Rig					
Contractor								Discovery #2		Owner To Fairview, w + SW to Rig					
Type Job								Surface		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.					
Hole Size				T.D.		Charge To				John O Farmer					
8 5/8"				222'											
Csg.				Depth		Street									
8 5/8"				222'											
Tbg. Size				Depth		City				State					
Tool				Depth		The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.				Shoe Joint		Cement Amount Ordered									
15'				15'		150 80/20 3%CL 2%Gel									
Meas Line				Displace											
				13 BLS											
EQUIPMENT															
Pumptrk		No.		Cementer		Helper		Common		120					
17				David				Poz. Mix		30					
Bulktrk		No.		Driver		Driver		Gel.		3					
3				Tim				Calcium		6					
Bulktrk		No.		Driver		Driver		Hulls							
p.u.				Rick				Salt							
JOB SERVICES & REMARKS															
Remarks:				Cement did Circulate											
Rat Hole				Flowseal											
Mouse Hole				Kol-Seal											
Centralizers				Mud CLR 48											
Baskets				CFL-117 or CD110 CAF 38											
D/V or Port Collar				Sand											
				Handling								159			
				Mileage											
FLOAT EQUIPMENT															
				Guide Shoe											
				Centralizer											
				Baskets											
				AFU Inserts											
				Float Shoe											
				Latch Down											
				Pumptrk Charge								Surface			
				Mileage								20			
Signature															
												Tax			
												Discount			
												Total Charge			

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. 1883

Date	1-29-20	Sec.	28	Twp.	11	Range	15	County	Russell	State	Ks	On Location		Finish	10:30 AM
Lease								Well No.	Location						
Don								1	Garham - 1E, N to Saline Rd, 1/2 E, 1 1/2 N to Fairview Rd, W + 5 Into						
Contractor								#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.						
Type Job									Charge To						
Longstring									John O. Farmer						
Hole Size								T.D.	Street						
17 7/8" (V)								3350'	City						
Csg. 5 1/2" New 14#								Depth	State						
								3349.97'							
Tbg. Size								Depth	City						
									State						
Tool Port Collar								Depth	The above was done to satisfaction and supervision of owner agent or contractor.						
								899'							
Cement Left in Csg. 43,44'								Shoe Joint	Cement Amount Ordered						
								43,44'	175 Com 10% Salt 5% 6% 1/2 smite						
Meas Line								Displace	20 BLS KCL 500 gal mud Clear 48						
								80 1/2 BLS							
EQUIPMENT								Common							
								175							
Pumptrk 17 No. Cementer/Helper								Poz. Mix							
Tim															
Bulktrk 1 No. Driver								Gel.							
Tony															
Bulktrk Piu. No. Driver								KCL 2 gal							
Rick															
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt 14							
Rat Hole 30 5x								Flowseal							
Mouse Hole 15 5x								Kol-Seal 750 #							
Centralizers 1, 3, 5, 7, 9, 11, 60								Mud CLR 48 500 gal							
Baskets 13, 61								CFL-117 or CD110 CAF 38							
D/V or Port Collar #61 899'								Sand							
Pipe on bottom break Circulation								Handling 196							
pump 500 gal mud Clear 48, 10 BLS of KCL, Plug Rathole + Mousehole								Mileage							
Hook to 5 1/2" Casing + Mix 130 5x Cement. Shut down wash pump + lines Displaced plug w/ 80 1/2 BLS Released + Held.								FLOAT EQUIPMENT							
								Guide Shoe Port Collar							
								Centralizer 7							
								Baskets 2							
								AFU Inserts							
								Float Shoe 1							
								Latch Down 1							
Lift pressure 700 #															
Land plug to 1500 #															
Thanks								Pumptrk Charge Prod String							
								Mileage 20							
								Tax							
								Discount							
								Total Charge							
Signature															
Ava W. Leavelle															

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. 1936

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-10-20				Russell	KS		10:30 AM
Lease <u>Don</u>				Well No. <u>1</u>		Location <u>Corham / E N to Curve 1/2 E 1/2 N W 1/4 S. into</u>	
Contractor <u>Siemens</u>				Owner 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 <u>Port Collar</u>				Charge To <u>J.O. Farmer</u>			
Hole Size <u>7/8</u>		T.D.		Street			
Csg. <u>5 1/2</u>		Depth		City			
Tbg. Size <u>2 3/8</u>		Depth		State			
Tool <u>Reinhardt's Chisel</u>		Depth <u>(895)</u>		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered <u>250⁸⁰ / 20 QMDC / 4# F10</u>			
Meas Line		Displace <u>236</u>		Legal			
EQUIPMENT				Common <u>90⁸⁰ / 20 QMDC</u>			
Pumptrk <u>5</u> No.	Cementer			Poz. Mix			
	Helper			Gel. <u>6</u>			
Bulktrk No.	Driver			Calcium			
Bulktrk <u>15</u> No.	Driver			Hulls <u>2</u>			
JOB SERVICES & REMARKS				Salt			
Remarks:				Flowseal <u>50 #</u>			
Rat Hole				Kol-Seal			
Mouse Hole				Mud CLR 48			
Centralizers				CFL-117 or CD110 CAF 38			
Baskets				Sand			
D/V or Port Collar				Handling <u>250</u>			
<p><u>Test 5/2 to 800# Spot 1 gal to Port Collar. Open Tool Mix 90SK + Est. Circulation. Mix 90SK Cement (circulate). Displace 236. Close Tool pressure to 800#. Run 5 joints + wash clean.</u></p> <p><u>USED 90SK + Legal</u></p> <p><u>Thanks</u></p>				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge <u>port collar job</u>			
				Mileage <u>24</u>			
				Tax			
Discount							
Total Charge							
Signature <u>Paul</u>							



Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548
370 West Wichita - P.O. Box 352 PO Box 763
Russell, KS 67665 + 0352 Hays, KS 67601

Lease: Don # 1 Location: 1170 FNL - 530 FWL
SE/SW/NW/NW
Section 28/ 11S/ 15W
Russell County, KS

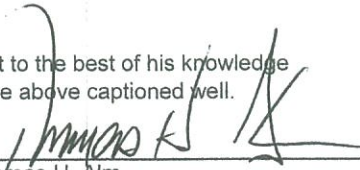
Loggers Total Depth: 3351' API#15- 167-24,100-00-00
 Rotary Total Depth: 3350' Elevation: 1120' GL - 1130' KB
 Commenced: 1/21/2020 Completed: 1/29/2020
 Casing: 8 5/8" @ 221.15'W/150sks Status: Oil Well
5 1/2" @ 3346'W/130sks
(Port Collar @ 895')

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>934'</u>
Dakota Sand	<u>318'</u>	Shale & Lime	<u>1503'</u>
Shale	<u>346'</u>	Shale	<u>2053'</u>
Cedar Hill Sand	<u>406'</u>	Shale & Lime	<u>2523'</u>
Red Bed Shale	<u>601'</u>	Lime & Shale	<u>2951'</u>
Anhydrite	<u>902'</u>	RTD	<u>3350'</u>
Base Anhydrite	<u>934'</u>		

STATE OF KANSAS))
) ss
 COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

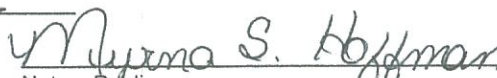


 Thomas H. Alm

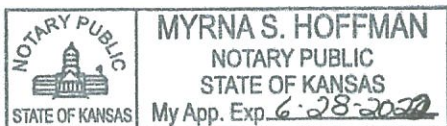
Subscribed and sworn to before me on 2-06-2020

My Commission expires: 6-28-2020

(Place stamp or seal below)



 Notary Public





AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

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

Well Name: Don #1
API: 15-167-24,100-0000
Location: Russell County
License Number:
Spud Date: 01/21/2020
Surface Coordinates: 1,770' FNL & 530' FWL
Bottom Hole Coordinates: Vertical well w/ minimal deviation, same as above
Ground Elevation (ft): 1,822
Logged Interval (ft): 2,500
Formation: LKC, Arbuckle
Type of Drilling Fluid: Chemical (Andy's Mud Co.)

Region: Kansas
Drilling Completed: 01/30/2020

K.B. Elevation (ft): 1,830
Total Depth (ft): 3,350
To: RTD

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

OPERATOR

Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665

Comments

The Don #1 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Terry Wickham).

The location for the Don #1 was discovered via 3D seismic survey. Rock samples were gathered and evaluated from 2,500'-3,350'. Oil shows were encountered in the Topeka, Lansing A,B,C,F,G,J, & K zones. Structurally, the Lansing top was picked 7' high to the comparison well, Krug B #1 (John O. Farmer, Inc). Five bottom-hole drill stem tests were conducted while drilling the Don #1. Structural thinning occurred below the B/KC, and the Arbuckle top was picked 23' high to the comparison well. After evaluation of all oil shows, drill stem test results, & electric logs, the decision was made to set 5-1/2" production casing on 1/30/2020 to further evaluate the Don #1 well.

30"-30"-60"-60"

IF: weak blow built to 1.75", no blow back on shut in

FF: weak blow built to 2.25", no blow back on shut in

Rec: 40' Gas in Pipe

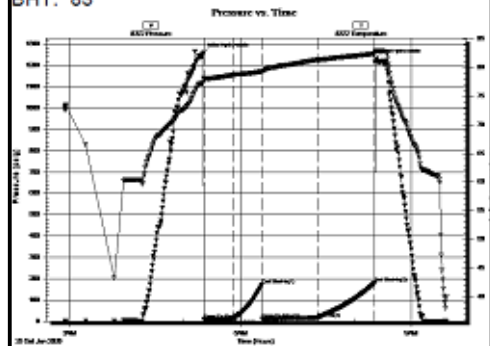
20' Gassy Oil Cut Mud (5% G, 10% O, 85% M)

FP: 10-12, 11-17#

SIP: 171-180#

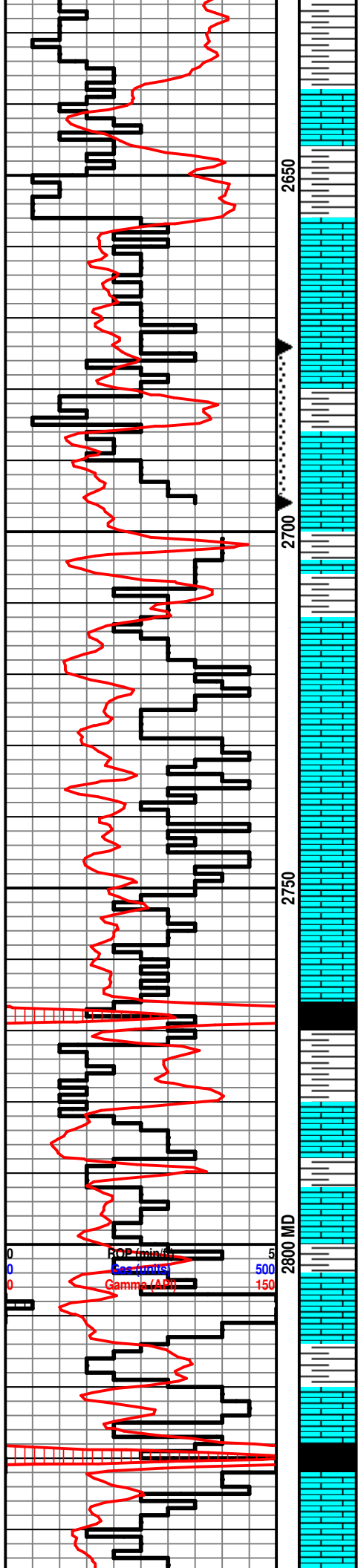
HP: 1,260-1,233#

BHT: 83°



Wt: 8.6

Vis: 45



Ls: tan-lt gry-fn-sub xln, DNS

Sh: lt-drk gry

Topeka 2656' (-826)

Ls: tan-gry, fn-sub xln, scat foss, NSFO, mostly DNS

Ls: tan-gry, fn-sub xln, mostly DNS

Sh: lt-drk gry

Ls: off wh-tan-buff, fn xln, poor-fair int xln porosity, fair oil stn, S-FSFO, fair-good odor

Sh: lt-drk gry

Ls: tan-gry-buff, fn xln, scat poor int xln porosity, NSFO, scat chalk

Ls: tan-gry, fn-sub xln, mostly DNS

Ls: tan-gry-buff, fn xln, poor int xln & scat int part porosity, NSFO, scat chalk

Ls: tan-gry, fn xln, poor int xln porosity, NSFO

Sh: drk gry-blk

Ls: off wh-tan-brn, fn xln, poor int xln porosity, scat fair oil stn, VSSFO, sl odor

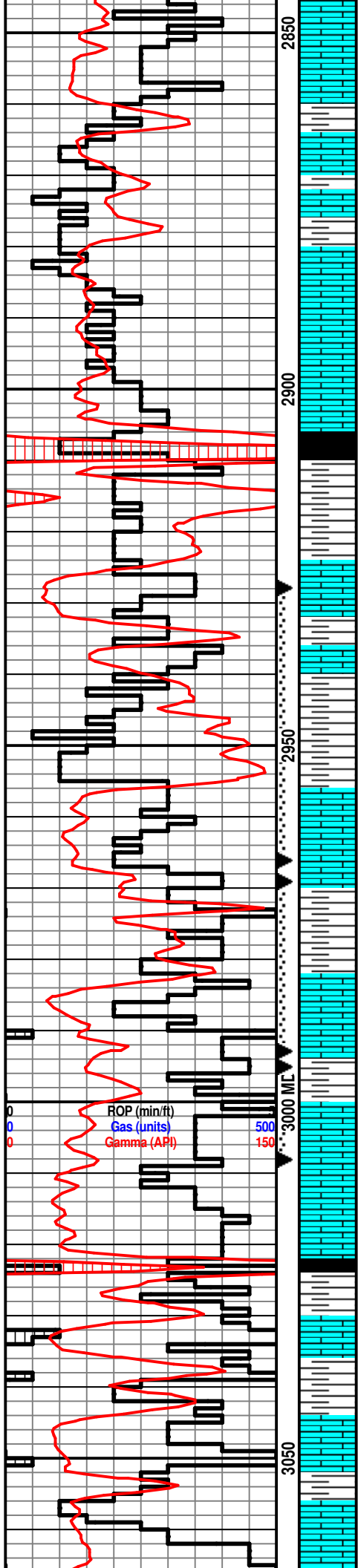
Sh: lt-drk gry

Ls: tan-lt gry, fn xln, scat int xln porosity, NSFO, scat sh: lt-drk gry

Sh: lt-drk gry

Sh: drk gry-blk

Ls: off wh-tan, fn xln, poor int xln porosity, scat dead oil stn, vry lt odor, scat chert



Ls: tan-lt gry, fn-sub xln, mostly DNS

Sh: lt-drk gry

Ls: off wh-tan-gry, fn xln, poor-scat fair int xln & int vug porosity, fair oil stn in porosity, sl odor

Ls: off wh-tan-brn, fn xln, poor-fair int xln & int part porosity, fair oil stn, SSFO, sl-fair odor

Ls: tan-gry, fn-sub xln, mostly DNS

Heebner 2906' (-1076)

Sh: blk, carb, fissile

Sh: lt-drk gry

Toronto 2925' (-1095)

Ls: off wh-tan-brn, fn xln, poor int xln porosity, NSFO

Sh: lt-drk gry

Lansing 2955' (-1125)

Ls: off wh-tan, fn xln, scat fair int xln & vug porosity, fair-good oil sat, VSSFO, fair-good odor

Ls: off wh-tan, fn xln, poor int xln porosity, NSFO

Sh: lt-drk gry

Ls: off wh, fn xln, fair int xln & vuggy porosity, fair oil sat on few rxs, VSSFO, sl odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, fair int xln & scat int vuggy porosity, fair-good oil sat, SSFO, fair odor

Ls: off wh-tan, fn xln, poor int xln porosity, scat oil stn, scat chert

Sh: lt-drk gry

Ls: tan-lt gry, fn-sub xln, mostly DNS, scat chert

Ls: off wh-tan, fn xln, scat fair int xln porosity, scat oil stn, VSSFO, fair odor

Ls: off wh-tan, fn xln, ool, fair int xln & oom porosity, scat fair oil stn, VSSFO, fair odor

DST #2 2,928-2,966' LKC A

30"-30"-20"-30"

IF: BOB in 17 minutes, .25" blow back on shut in

FF: BOB in 2 minutes, .25" blow back on shut in

Rec: 700' Gas in Pipe

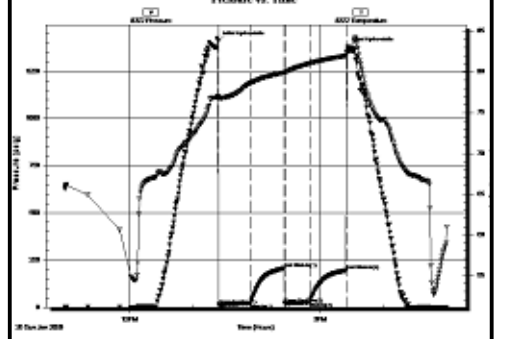
60' Gassy Oil Cut Mud (5% G, 5% O, 90% M)

FP: 12-22, 20-26#

SIP: 207-196#

HP: 1,411-1,378#

BHT: 83°



Wt: 8.5
Vis: 53

DST #3 2,969-2,993' LKC B

30"-30"-30"-30"

IF: BOB in 30 minutes, .25" blow back on shut in

FF: Weak blow built to 6", weak surface blow back on shut in

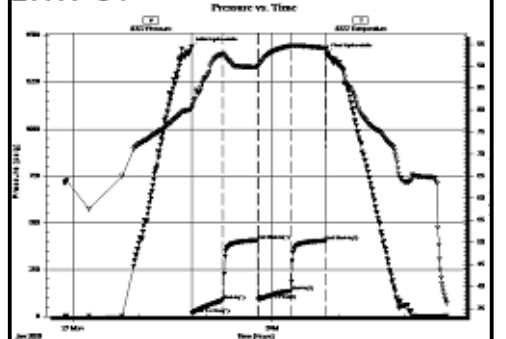
Rec: 280' Gassy Muddy Water (10% G, 20% M, 70% W) (Chl. 49K)

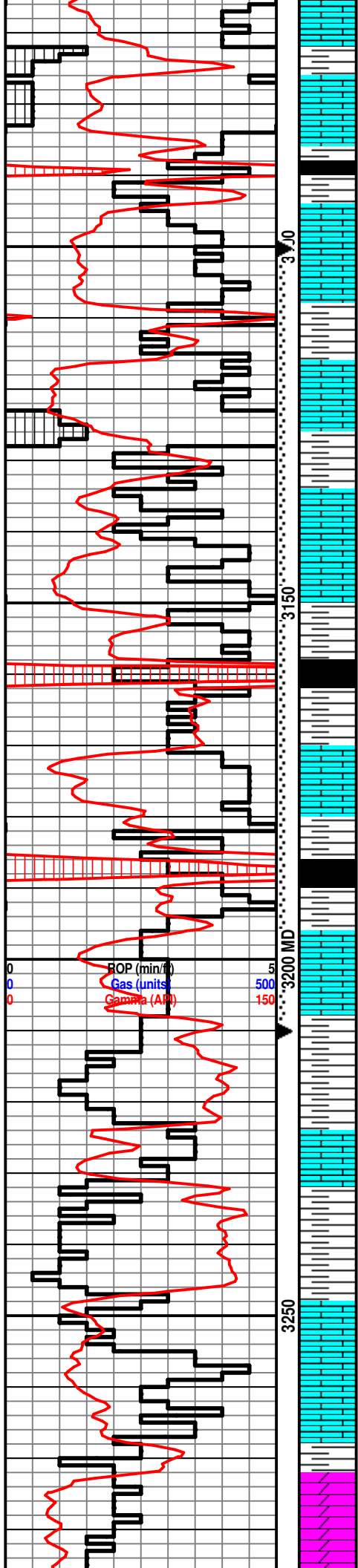
FP: 15-85, 89-136#

SIP: 406-404#

HP: 1,437-1,405#

BHT: 94°





Ls: tan-lt gry, m-sub xln, mostly DNS, NSFO, scat chert-off wh

Ls: ala

Sh: drk gry-blk

Ls: tan-lt gry, fn xln, poor int xln porosity, NSFO

Sh: lt-drk gry

Ls: off wh-tan, fn xln, few rocks w/ fair int xln porosity, lt oil stn

Sh: drk gry-blk

Ls: off wh-tan, fn xln, fair, few rocks w/ good int xln & pp vuggy porosity, fair-good oil sat, SSFO, good odor

Sh: lt-drk gry

Sh: drk gry-blk

Ls: off wh-tan, fn xln, poor-fair int xln & scat pp vuggy porosity, sl-fair oil sat, fair odor

Sh: lt-drk gry

Sh: lt-drk gry, blk

Ls: off wh-tan, fn-sub xln, NSFO

B/KC 3208' (-1378)

Sh: lt-drk gry

Ls: tan-lt gry, fn-sub xln, mostly DNS

Sh: lt-drk gry-brn

Ls: tan-gry, fn xln, poor int xln porosity, scat chert

Sh: lt gry-lt brn, scat soft

Arbuckle 3278' (-1448)

Dolo: off wh-tan-brn, fn-md xln, fair-good sucrosic xln porosity, good oil sat, F-GSFO, good odor

DST #4 2,995-3,008' LKC C

30"-30"-30"-30"

IF: BOB in 6 minutes, 5.75" blow back on shut in

FF: BOB in 7 minutes, 10.75" blow back on shut in

Rec: 660' Gas in Pipe

60' Gassy Oil (25% G, 75% O)

60' Gassy Heavy Oil Cut Watery Mud (10% G, 25% W, 25% O, 40% M)

220' Gassy Mud Cut Water (5% G, 10% M, 85% W) (Chl. 66K)

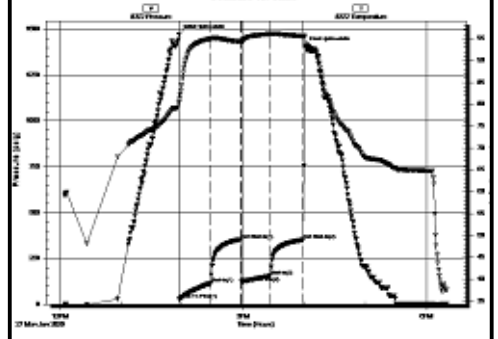
340' Total Fluid Recovery

FP: 28-116, 121-155#

SIP: 353-351#

HP: 1,472-1,405#

BHT: 95°



Wt: 8.8
Vis: 51

DST #5 3,100-3,210' LKC I-L

30"-30"-60"-60"

IF: weak blow built to 5"

FF: weak blow built to 8"

Rec: 250' Gas in Pipe

40' Gassy Heavy Oil Cut Mud (25% O, 35% M, 40% G)

60' Gassy Oil Cut Mud (10% O, 20% G, 70% M)

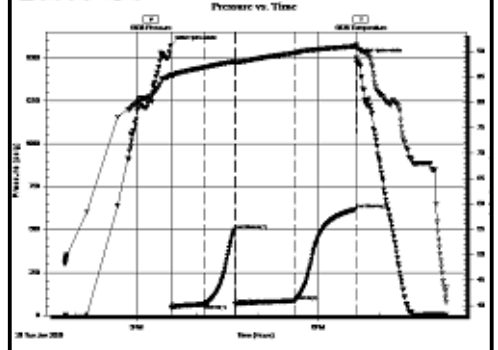
100' Total Fluid Recovery

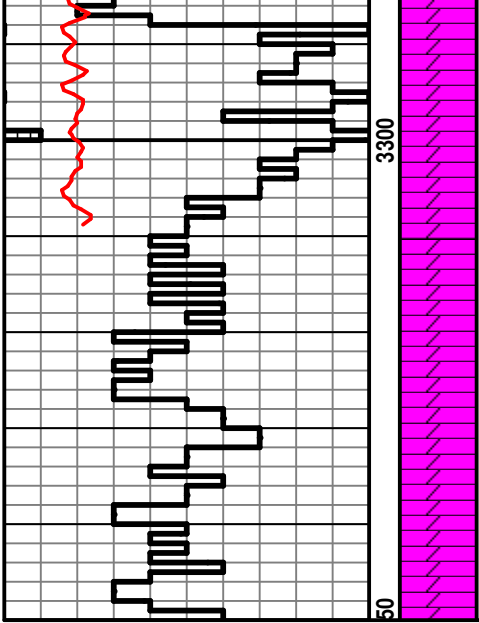
FP: 46-65, 65-85#

SIP: 499-618#

HP: 1,574-1,499#

BHT: 91°





Dolo: off wh-tan-brn, fn-md xln, fair sucrosic xln porosity, fair-good sat, FSFO, good odor, scat chert

Dolo: off wh-tan, fn-md xln, fair int xln porosity, lt-fair oil sat, SSFO, fair-odor

Dolo: off wh-tan-brn, fn-md xln, poor-fair int xln porosity, NSFO

Dolo: off wh-tan-brn, fn xln, poor int xln porosity, mostly DNS, NSFO

Dolo: ala

Final Survey: 3 degrees



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 370 N Wichita Ave
 PO BOX 352
 Russell KS 67665+0352
 ATTN: Austin Klaus

28-11s-15w Russell KS

Don #1

Job Ticket: 66377

DST#: 3

Test Start: 2020.01.26 @ 23:53:00

GENERAL INFORMATION:

Formation: **LKC B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:47:47
 Time Test Ended: 05:38:02
 Interval: **2969.00 ft (KB) To 2993.00 ft (KB) (TVD)**
 Total Depth: 2993.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 1830.00 ft (KB)
 1822.00 ft (CF)
 KB to GR/CF: 8.00 ft

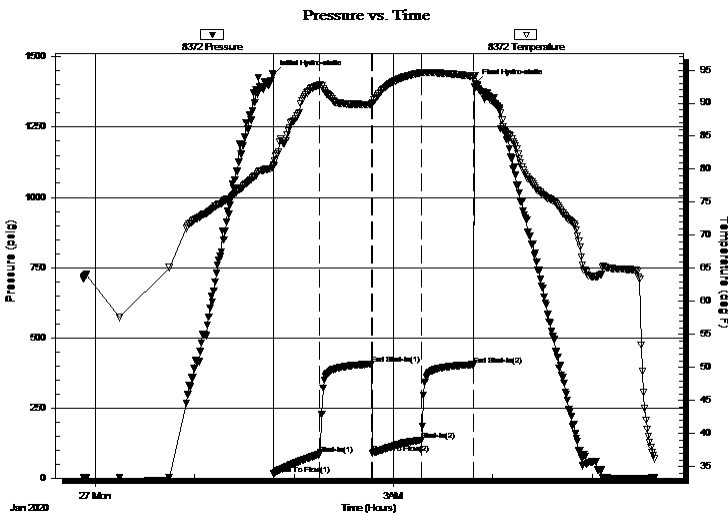
Serial #: 8372

Outside

Press@RunDepth: 136.26 psig @ 2970.00 ft (KB) Capacity: psig
 Start Date: 2020.01.26 End Date: 2020.01.27 Last Calib.: 2020.01.27
 Start Time: 23:53:01 End Time: 05:38:02 Time On Btm: 2020.01.27 @ 01:47:32
 Time Off Btm: 2020.01.27 @ 03:49:32

TEST COMMENT: 30-IF-Surface to BOB in 30 mins
 30-ISI-Weak; Built to 1/4"
 30-FF-Surface to 6"
 30-FSI-Very Weak Surface

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1437.07	80.68	Initial Hydro-static
1	15.10	80.57	Open To Flow (1)
28	84.87	92.73	Shut-In(1)
60	405.73	89.84	End Shut-In(1)
60	89.13	89.95	Open To Flow (2)
90	136.26	94.60	Shut-In(2)
121	404.14	94.10	End Shut-In(2)
122	1404.85	94.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	GMW w/oil Spots 10%G 20%M 70%W	2.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

28-11s-15w Russell KS

370 N Wichita Ave
PO BOX 352
Russell KS 67665+0352
ATTN: Austin Klaus

Don #1

Job Ticket: 66377

DST#: 3

Test Start: 2020.01.26 @ 23:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

49000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
280.00	GMW w/oil Spots 10%G 20%M 70%W	2.316

Total Length: 280.00 ft Total Volume: 2.316 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

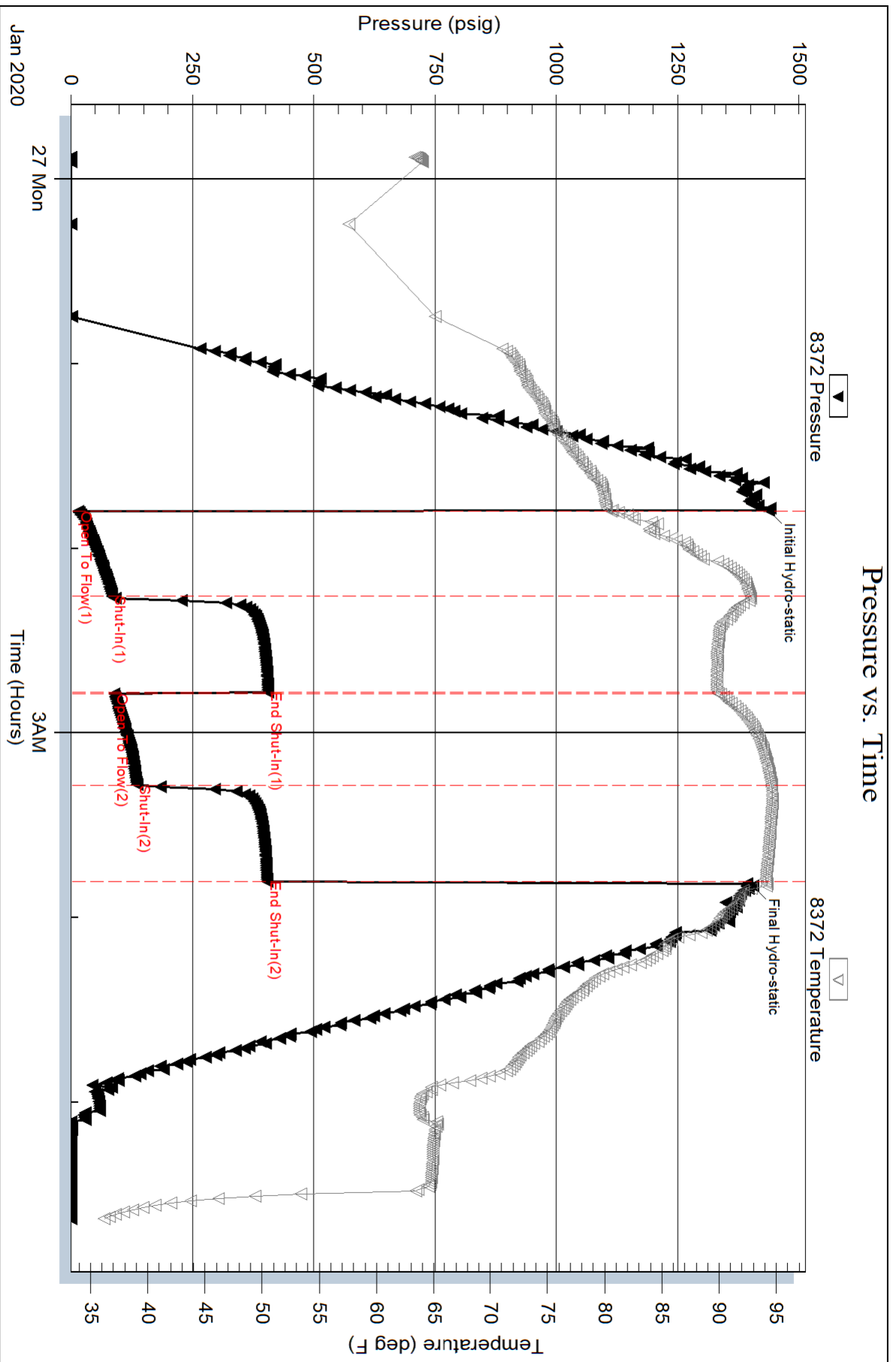
Laboratory Name:

Laboratory Location:

Recovery Comments: 2&1/2#LCM

RW=.274@39F

Pressure vs. Time



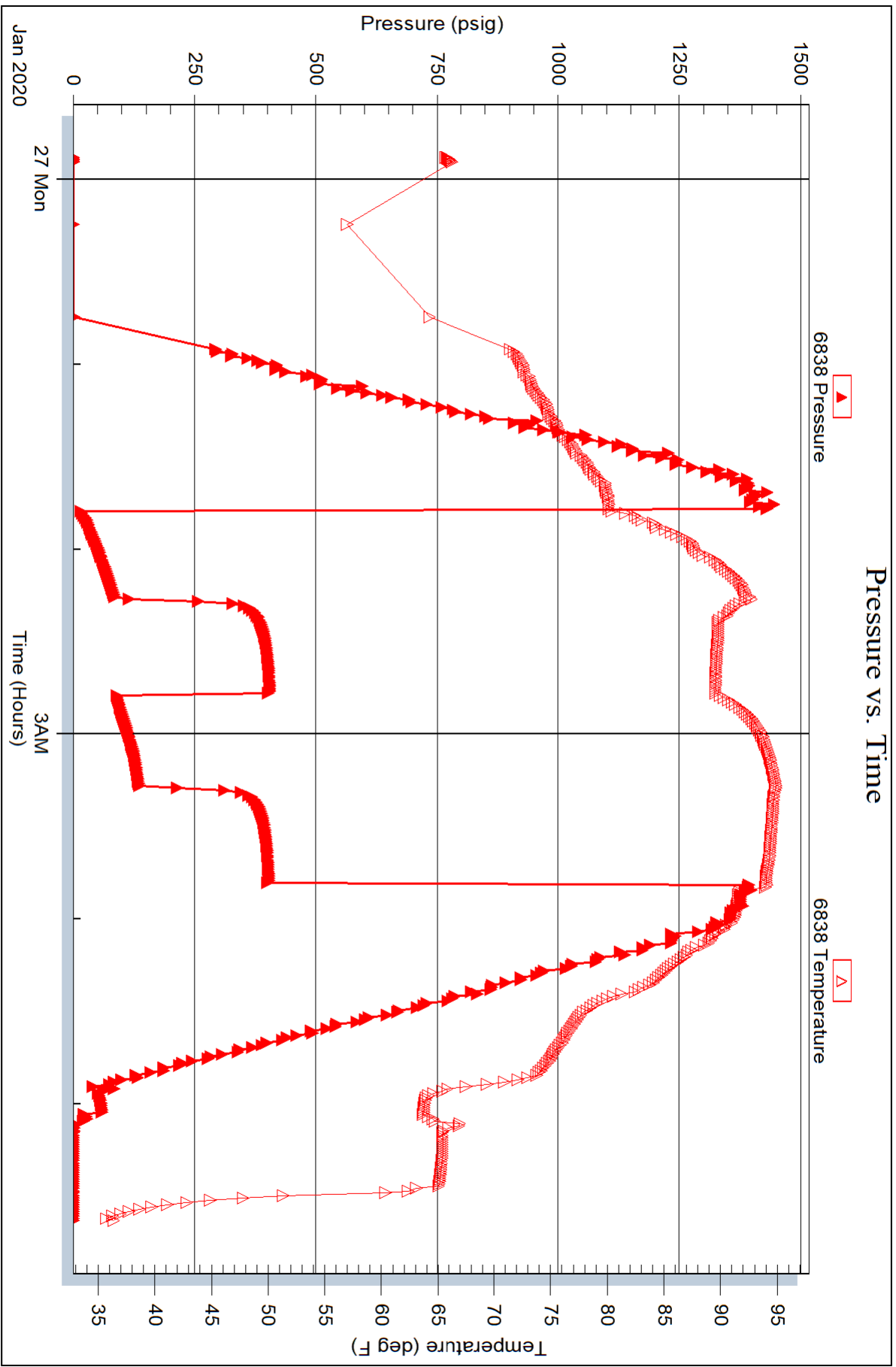
Serial #: 6838

Inside

John O Farmer Inc

Don #1

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 370 N Wichita Ave
 PO BOX 352
 Russell KS 67665+0352
 ATTN: Austin Klaus

28-11s-15w Russell KS

Don #1

Job Ticket: 66375

DST#: 1

Test Start: 2020.01.25 @ 02:55:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:21:32

Time Test Ended: 09:38:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 84

Interval: 2674.00 ft (KB) To 2696.00 ft (KB) (TVD)

Reference Elevations: 1830.00 ft (KB)

Total Depth: 2696.00 ft (KB) (TVD)

1822.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8372 Outside

Press@RunDepth: 16.53 psig @ 2675.00 ft (KB)

Capacity: psig

Start Date: 2020.01.25 End Date: 2020.01.25

Last Calib.: 2020.01.25

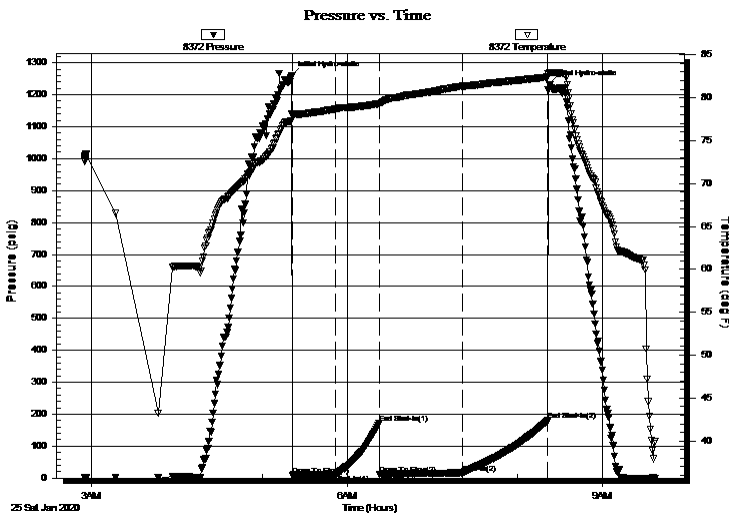
Start Time: 02:55:01 End Time: 09:38:02

Time On Btm: 2020.01.25 @ 05:21:02

Time Off Btm: 2020.01.25 @ 08:22:47

TEST COMMENT: 30-IF-Weak; Built from surface to 1&3/4"
 30-ISI-No Return
 60-FF-Weak; Built from surface to 2&1/4"
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1259.88	78.16	Initial Hydro-static
1	9.60	78.10	Open To Flow (1)
31	11.70	78.70	Shut-In(1)
62	171.34	79.30	End Shut-In(1)
62	11.49	79.32	Open To Flow (2)
120	16.53	81.34	Shut-In(2)
181	179.92	82.45	End Shut-In(2)
182	1233.19	82.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOCM 5%G 10%O 85%M	0.15
0.00	40' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 370 N Wichita Ave
 PO BOX 352
 Russell KS 67665+0352
 ATTN: Austin Klaus

28-11s-15w Russell KS

Don #1

Job Ticket: 66375 **DST#: 1**
 Test Start: 2020.01.25 @ 02:55:00

GENERAL INFORMATION:

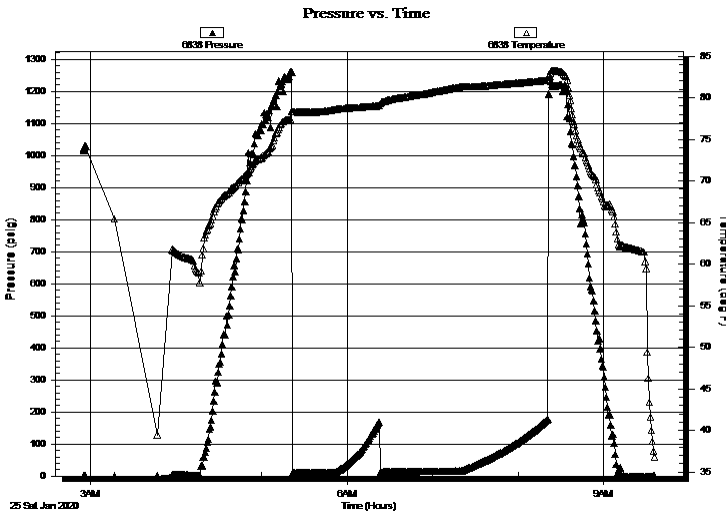
Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:21:32 Tester: Spencer J Staab
 Time Test Ended: 09:38:02 Unit No: 84
Interval: 2674.00 ft (KB) To 2696.00 ft (KB) (TVD)
 Total Depth: 2696.00 ft (KB) (TVD) Reference Elevations: 1830.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 1822.00 ft (CF)
 8.00 ft

Serial #: 6838 Inside

Press@RunDepth:	psig @ 2675.00 ft (KB)	Capacity:	psig
Start Date:	2020.01.25	End Date:	2020.01.25
Start Time:	02:55:01	End Time:	09:36:02
		Last Calib.:	2020.01.25
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30-IF-Weak; Built from surface to 1&3/4"
 30-ISI-No Return
 60-FF-Weak; Built from surface to 2&1/4"
 60-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GOCM 5%G 10%O 85%M	0.15
0.00	40' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

28-11s-15w Russell KS

370 N Wichita Ave
PO BOX 352
Russell KS 67665+0352
ATTN: Austin Klaus

Don #1

Job Ticket: 66375

DST#: 1

Test Start: 2020.01.25 @ 02:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 8.00 lb/gal

Viscosity: 27.00 sec/qt

Water Loss: in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GOCM 5%G 10%O 85%M	0.147
0.00	40' GIP	0.000

Total Length: 20.00 ft Total Volume: 0.147 bbl

Num Fluid Samples: 0

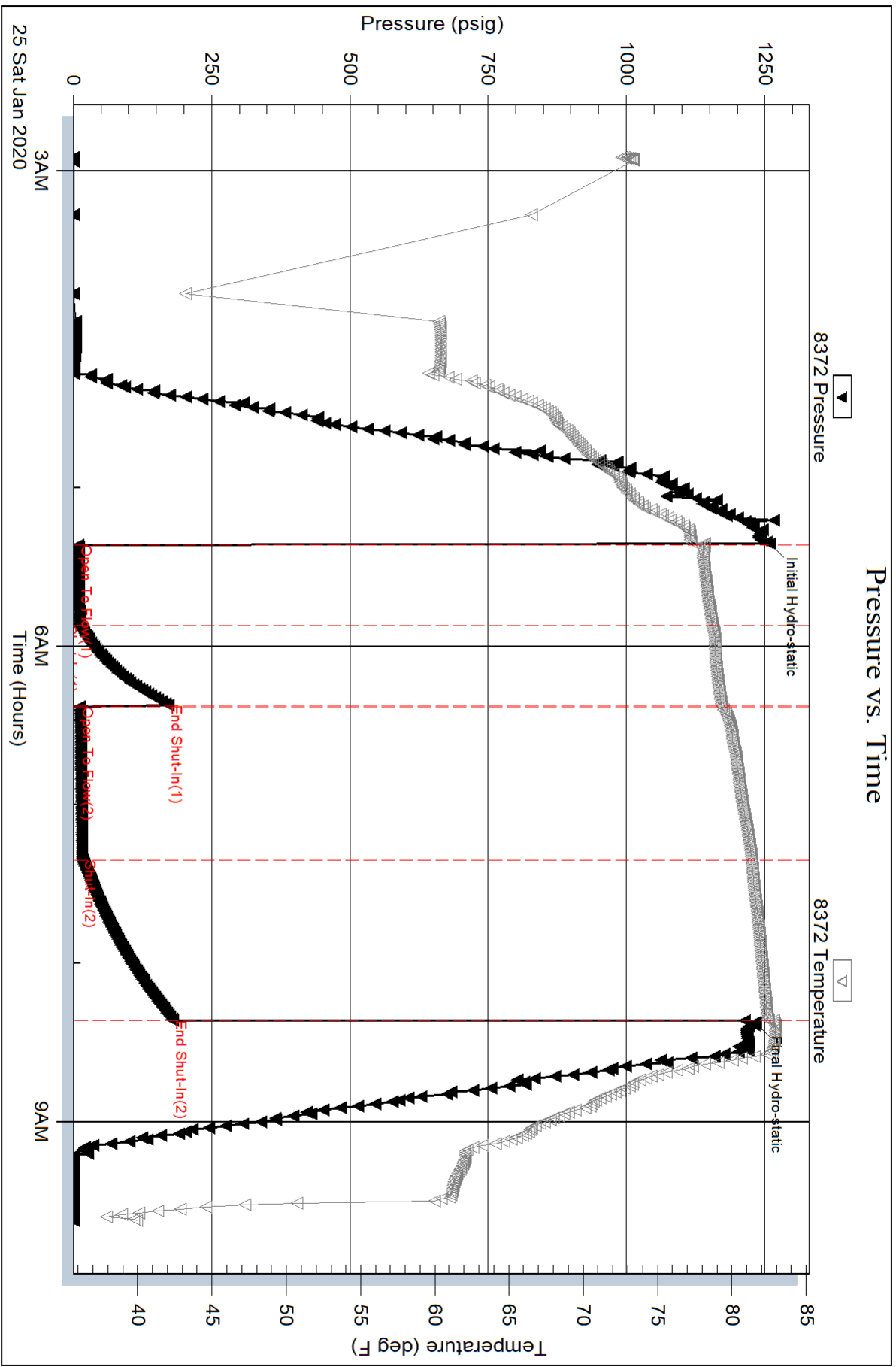
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



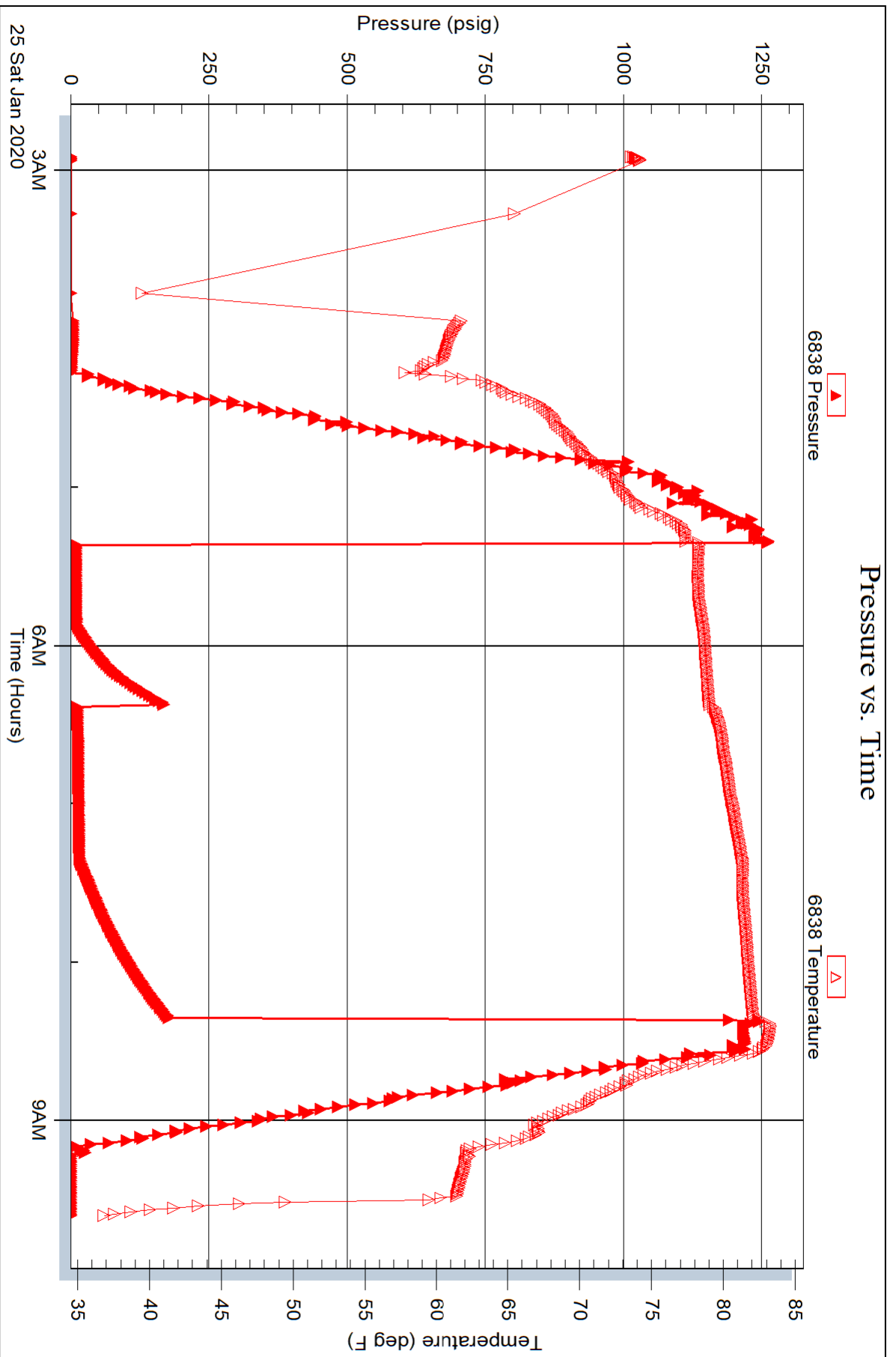
Serial #: 6838

Inside

John O Farmer Inc

Don #1

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc
370 N Wichita Ave
PO BOX 352
Russell KS 67665+0352
ATTN: Austin Klaus

28-11s-15w Russell KS

Don #1

Job Ticket: 66376

DST#: 2

Test Start: 2020.01.26 @ 10:59:00

GENERAL INFORMATION:

Formation: **LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:24:02
 Time Test Ended: 17:00:02
 Interval: **2928.00 ft (KB) To 2936.00 ft (KB) (TVD)**
 Total Depth: 2966.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 1830.00 ft (KB)
 1822.00 ft (CF)
 KB to GR/CF: 8.00 ft

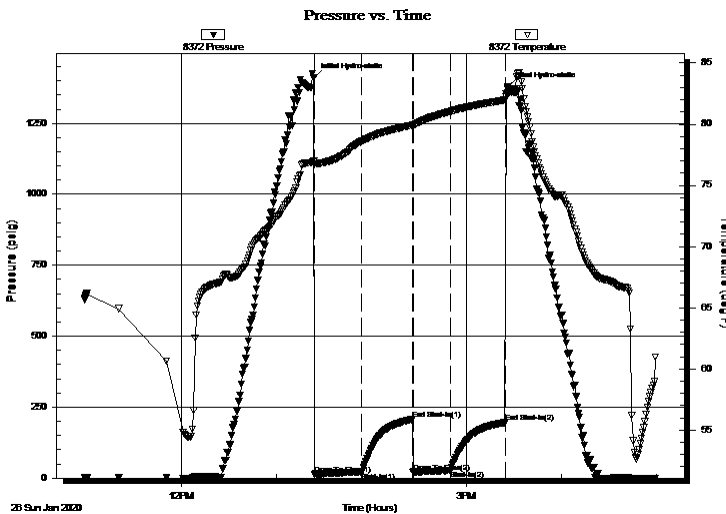
Serial #: 8372

Inside

Press@RunDepth: 25.86 psig @ 2931.00 ft (KB) Capacity: psig
 Start Date: 2020.01.26 End Date: 2020.01.26 Last Calib.: 2020.01.26
 Start Time: 10:59:01 End Time: 17:00:02 Time On Btm: 2020.01.26 @ 13:23:47
 Time Off Btm: 2020.01.26 @ 15:26:17

TEST COMMENT: 30-IF-Surface to BOB 17 mins; Built to 22&1/4"
 30-ISI-Bled off 2 mins; Built to 1/4"
 20-FF-Good Surge; BOB 2 mins; Built to 26"
 30-FSI-Bled off 3 mins; Built to 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1411.49	76.96	Initial Hydro-static
1	11.96	76.66	Open To Flow (1)
31	21.93	78.60	Shut-In(1)
63	206.56	79.91	End Shut-In(1)
63	20.43	79.92	Open To Flow (2)
86	25.86	81.04	Shut-In(2)
121	195.55	82.00	End Shut-In(2)
123	1378.04	82.55	Final Hydro-static

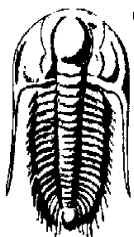
Recovery

Length (ft)	Description	Volume (bbl)
60.00	GSOCM 5%G 5%O 90%M	0.44
0.00	700' 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

John O Farmer Inc
370 N Wichita Ave
PO BOX 352
Russell KS 67665+0352
ATTN: Austin Klaus

28-11s-15w Russell KS

Don #1

Job Ticket: 66376 **DST#: 2**

Test Start: 2020.01.26 @ 10:59:00

GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:24:02

Time Test Ended: 17:00:02

Interval: 2928.00 ft (KB) To 2936.00 ft (KB) (TVD)

Total Depth: 2966.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Reference Elevations: 1830.00 ft (KB)

1822.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 2931.00 ft (KB)

Start Date: 2020.01.26 End Date: 2020.01.26

Start Time: 10:59:01 End Time: 17:00:02

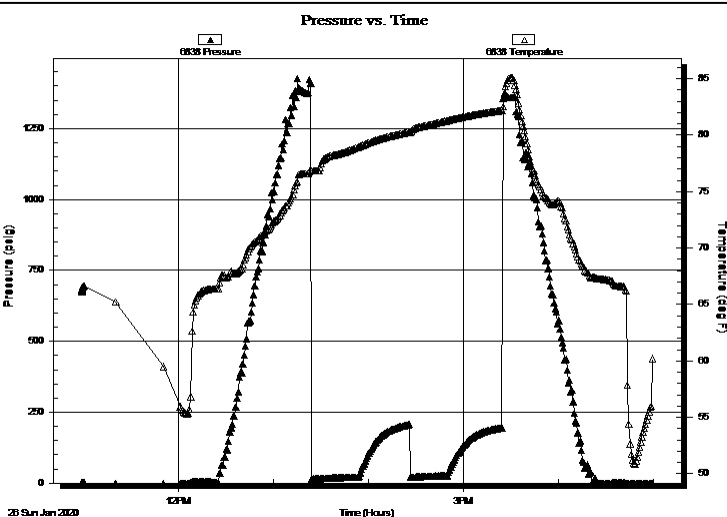
Capacity: psig

Last Calib.: 2020.01.26

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Surface to BOB 17 mins; Built to 22&1/4"
30-ISI-Bled off 2 mins; Built to 1/4"
20-FF-Good Surge; BOB 2 mins; Built to 26"
30-FSI-Bled off 3 mins; Built to 1/4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GSOCM 5%G 5%O 90%M	0.44
0.00	700' 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

FLUID SUMMARY

John O Farmer Inc

28-11s-15w Russell KS

370 N Wichita Ave
PO BOX 352
Russell KS 67665+0352
ATTN: Austin Klaus

Don #1

Job Ticket: 66376

DST#: 2

Test Start: 2020.01.26 @ 10:59:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 8.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 9.18 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GSOCM 5%G 5%O 90%M	0.441
0.00	700' GIP 100%G	0.000

Total Length: 60.00 ft Total Volume: 0.441 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

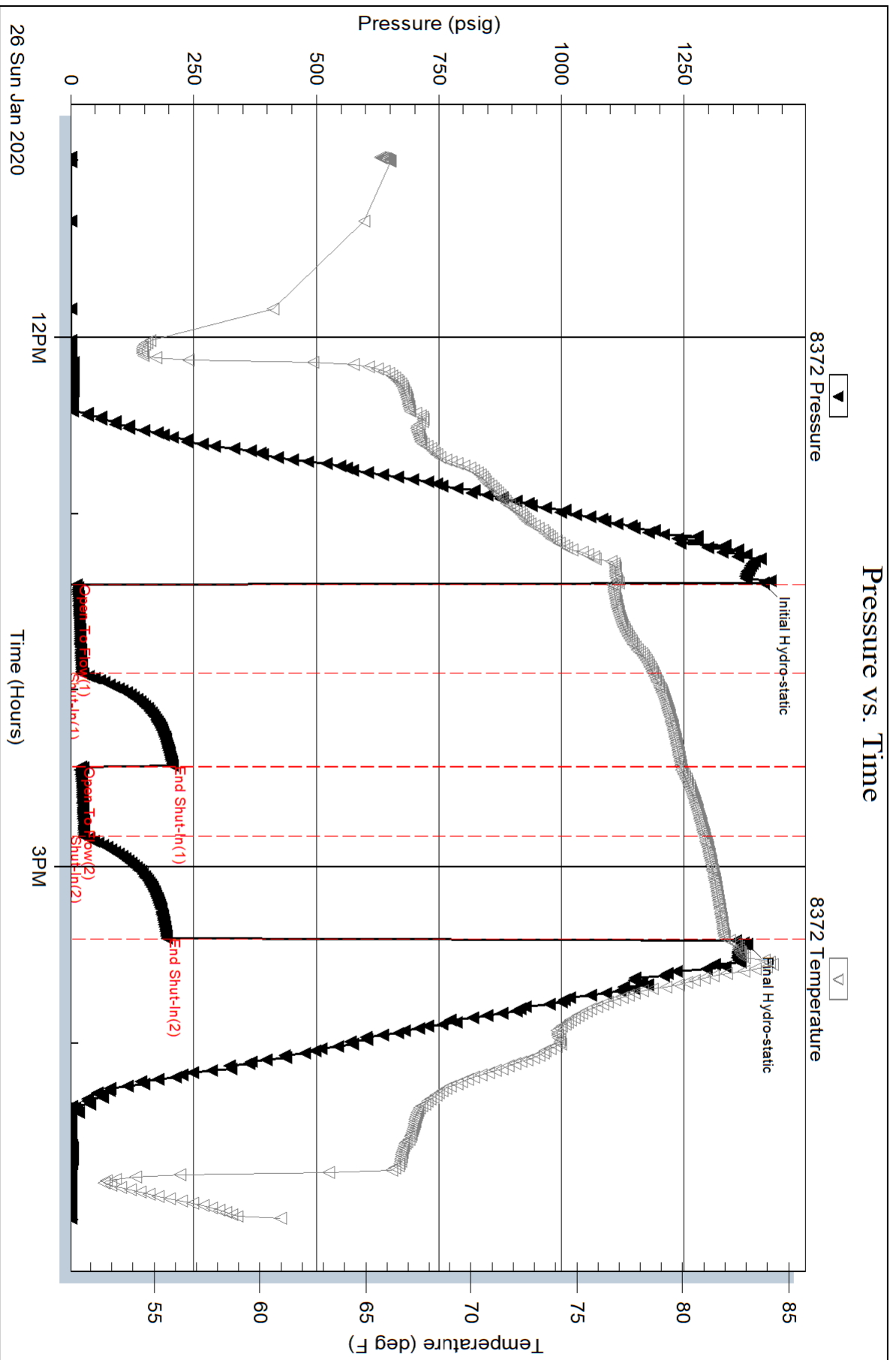
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2&1/2#LCM

Pressure vs. Time



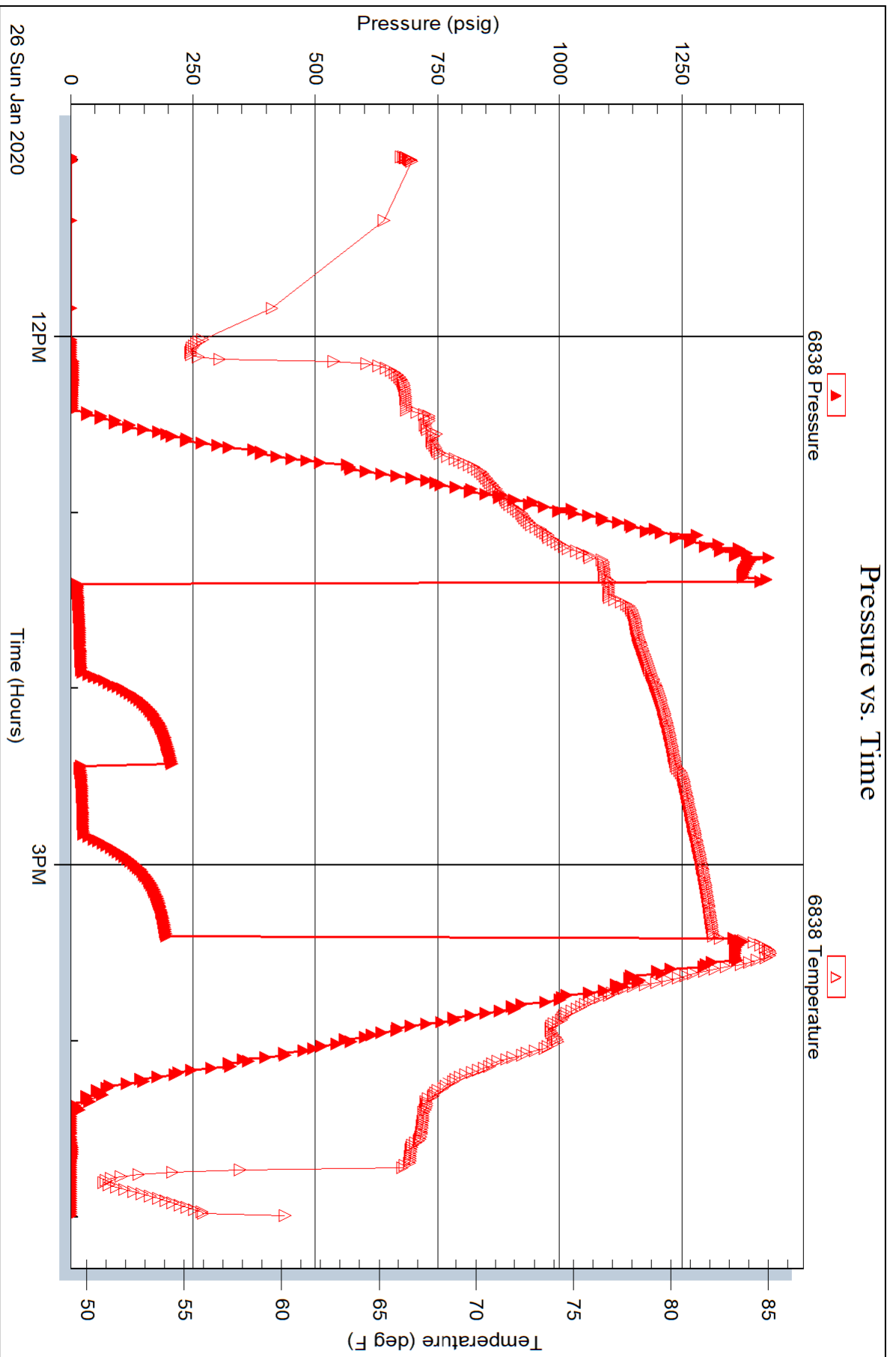
Serial #: 6838

Inside

John O Farmer Inc

Don #1

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 370 N Wichita Ave
 PO BOX 352
 Russell KS 67665+0352
 ATTN: Austin Klaus

28-11s-15w Russell KS

Don #1

Job Ticket: 66378

DST#: 4

Test Start: 2020.01.27 @ 12:05:01

GENERAL INFORMATION:

Formation: **LKC C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:57:02
 Time Test Ended: 18:20:02
 Interval: **2995.00 ft (KB) To 3008.00 ft (KB) (TVD)**
 Total Depth: 3008.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 1830.00 ft (KB)
 1822.00 ft (CF)
 KB to GR/CF: 8.00 ft

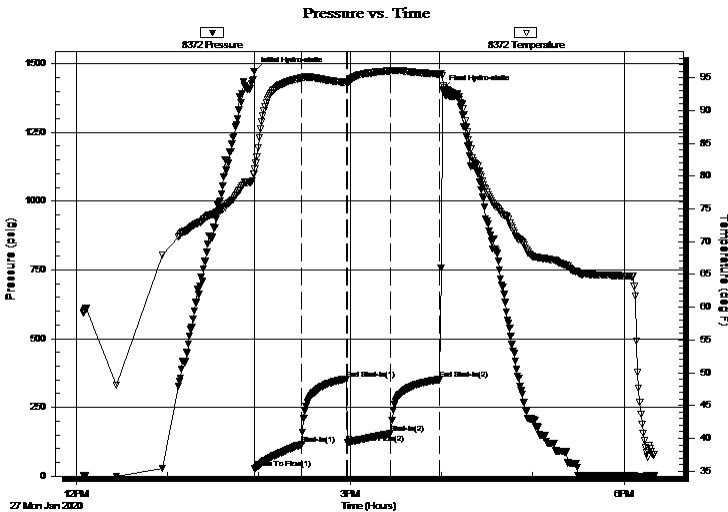
Serial #: 8372

Outside

Press@RunDepth: 154.61 psig @ 2996.00 ft (KB) Capacity: psig
 Start Date: 2020.01.27 End Date: 2020.01.27 Last Calib.: 2020.01.27
 Start Time: 12:05:01 End Time: 18:20:02 Time On Btm: 2020.01.27 @ 13:56:47
 Time Off Btm: 2020.01.27 @ 16:00:32

TEST COMMENT: 30-IF-Surface to BOB 6 mins; Built to 41&1/2"
 30-ISI-Surface to 5&3/4"
 30-FF-Surface to BOB 7 mins; Built to 38&3/4"
 30-FSI-Surface to 10&3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1472.00	80.38	Initial Hydro-static
1	27.57	80.42	Open To Flow (1)
32	116.40	95.00	Shut-In(1)
61	353.11	94.26	End Shut-In(1)
62	121.40	94.23	Open To Flow (2)
90	154.61	96.06	Shut-In(2)
122	351.49	95.58	End Shut-In(2)
124	1405.18	95.28	Final Hydro-static

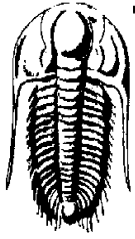
Recovery

Length (ft)	Description	Volume (bbl)
220.00	GMCW 5%G 10%M 85%W	1.62
60.00	GHOCWM 10%G 25%O 25%W 40%M	0.70
60.00	GO 25%G 75%O	0.85
0.00	660 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

John O Farmer Inc
370 N Wichita Ave
PO BOX 352
Russell KS 67665+0352
ATTN: Austin Klaus

28-11s-15w Russell KS

Don #1

Job Ticket: 66378 **DST#: 4**

Test Start: 2020.01.27 @ 12:05:01

GENERAL INFORMATION:

Formation: **LKC C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:57:02
Time Test Ended: 18:20:02
Interval: 2995.00 ft (KB) To 3008.00 ft (KB) (TVD)
Total Depth: 3008.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1830.00 ft (KB)
1822.00 ft (CF)
KB to GR/CF: 8.00 ft

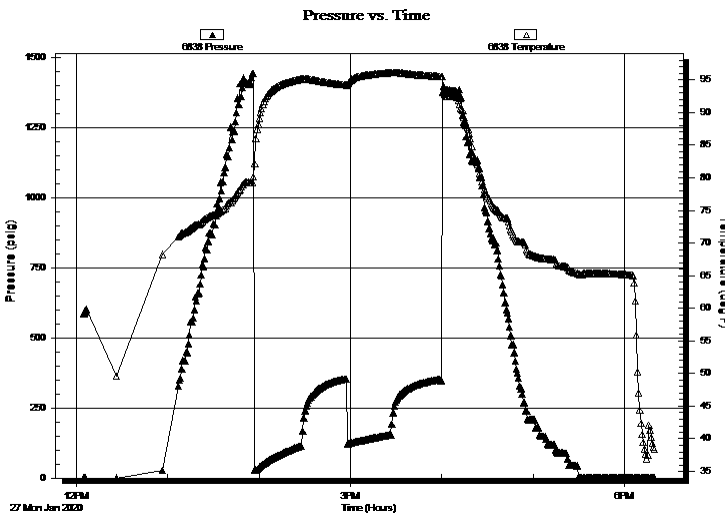
Serial #: 6838

Inside

Press@RunDepth: psig @ 2996.00 ft (KB) Capacity: psig
Start Date: 2020.01.27 End Date: 2020.01.27 Last Calib.: 2020.01.27
Start Time: 12:05:01 End Time: 18:20:02 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Surface to BOB 6 mins; Built to 41&1/2"
30-ISI-Surface to 5&3/4"
30-FF-Surface to BOB 7 mins; Built to 38&3/4"
30-FSI-Surface to 10&3/4"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
220.00	GMCW 5%G 10%M 85%W	1.62
60.00	GHOCWM 10%G 25%O 25%W 40%M	0.70
60.00	GO 25%G 75%O	0.85
0.00	660 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

FLUID SUMMARY

John O Farmer Inc

28-11s-15w Russell KS

370 N Wichita Ave
PO BOX 352
Russell KS 67665+0352
ATTN: Austin Klaus

Don #1

Job Ticket: 66378

DST#: 4

Test Start: 2020.01.27 @ 12:05:01

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

66000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
220.00	GMCW 5%G 10%M 85%W	1.616
60.00	GHOCWM 10%G 25%O 25%W 40%M	0.700
60.00	GO 25%G 75%O	0.851
0.00	660 GIP 100%G	0.000

Total Length: 340.00 ft

Total Volume: 3.167 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

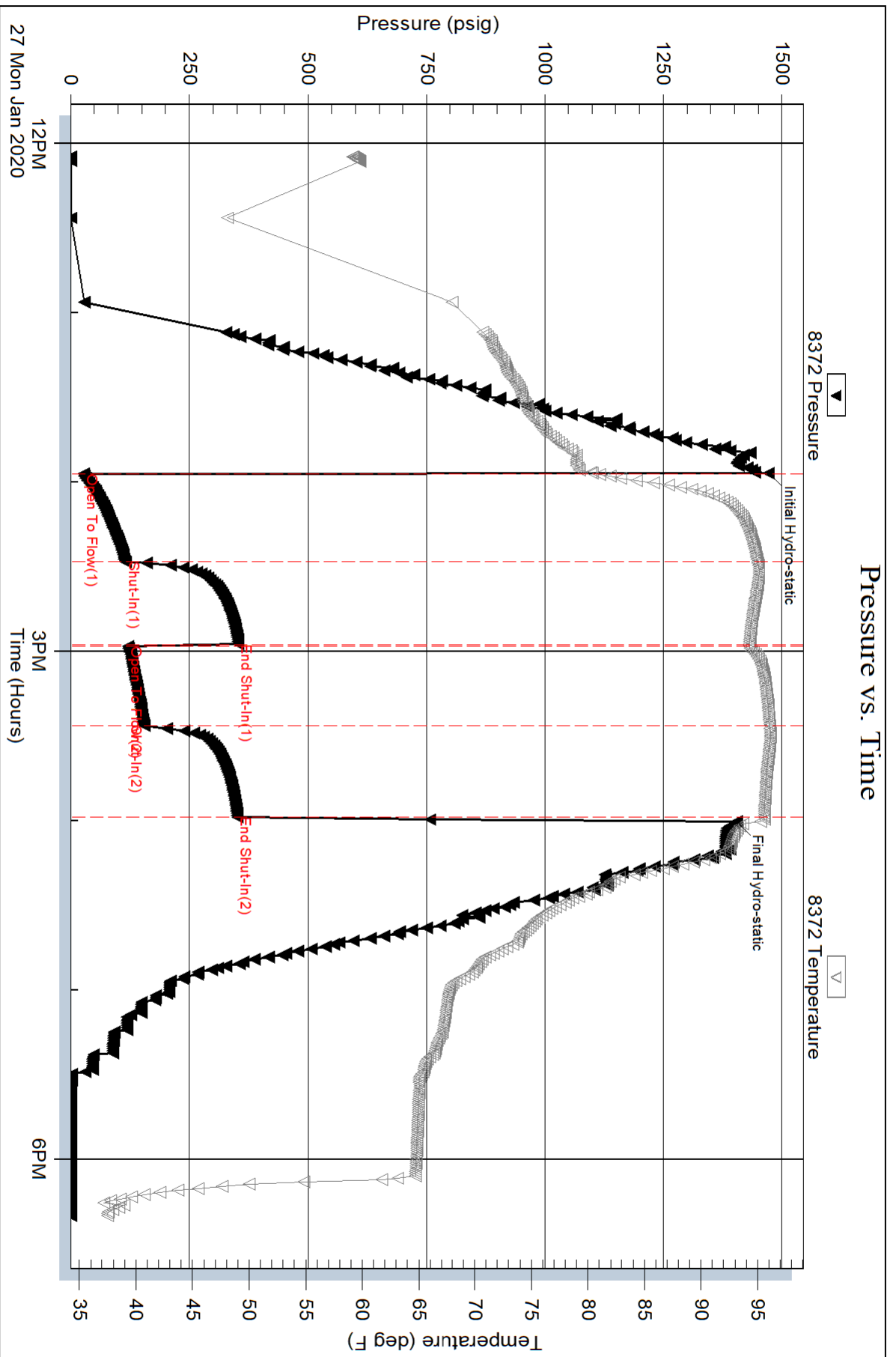
Serial #:

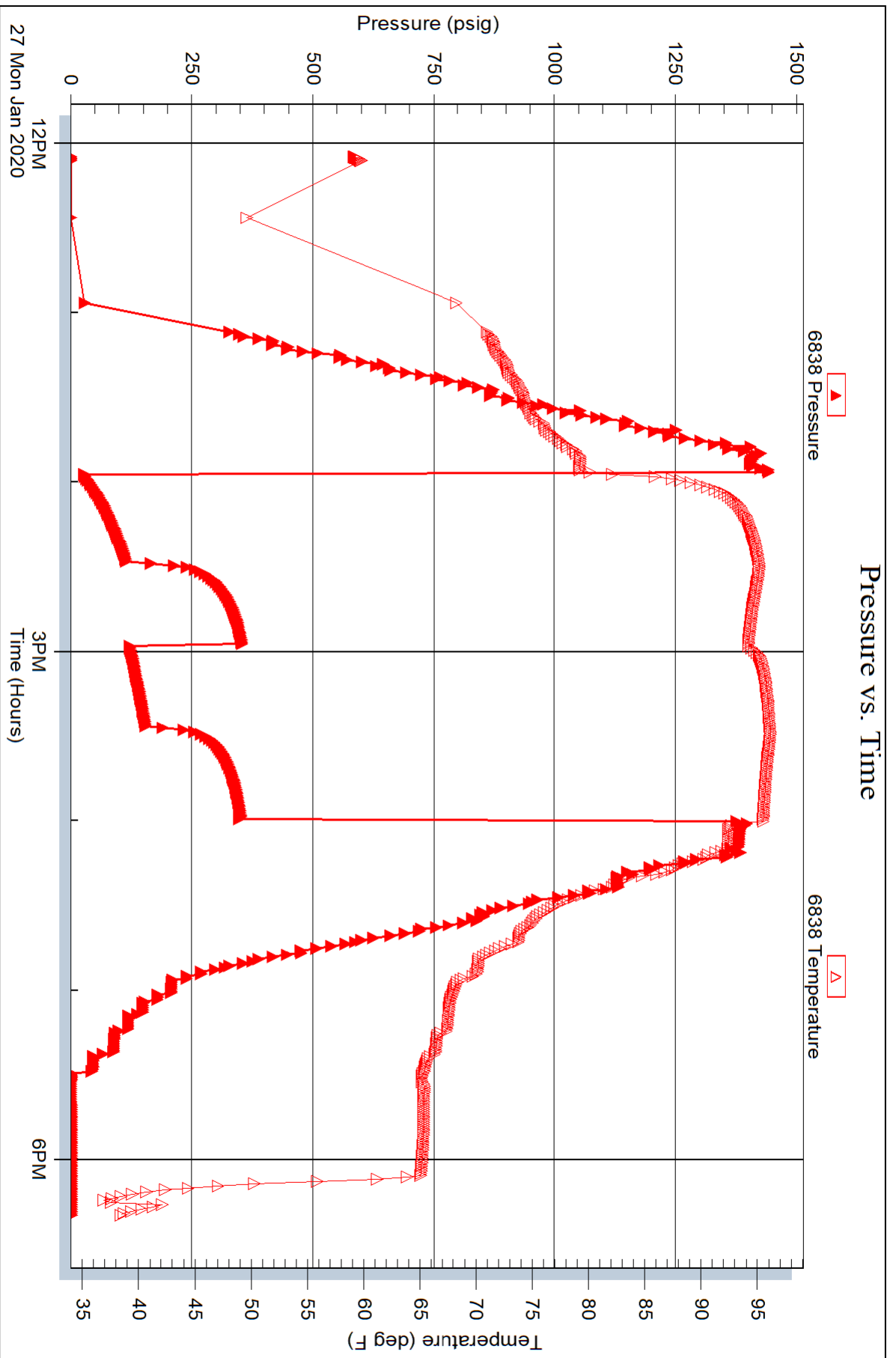
Laboratory Name:

Laboratory Location:

Recovery Comments: 2&1/2#LCM

RW=.195@42F







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc
370 N Wichita Ave
PO BOX 352
Russell KS 67665+0352
ATTN: Austin Klaus

28-11s-15w Russell KS

Don #1

Job Ticket: 66379

DST#: 5

Test Start: 2020.01.28 @ 13:50:01

GENERAL INFORMATION:

Formation: **LKC I-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:34:47

Time Test Ended: 20:07:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 84

Interval: 3100.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1830.00 ft (KB)

Total Depth: 3210.00 ft (KB) (TVD)

1822.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6838

Inside

Press@RunDepth: 85.06 psig @ 3103.00 ft (KB)

Capacity: psig

Start Date: 2020.01.28

End Date:

2020.01.28

Last Calib.:

2020.01.28

Start Time: 13:50:01

End Time:

20:07:02

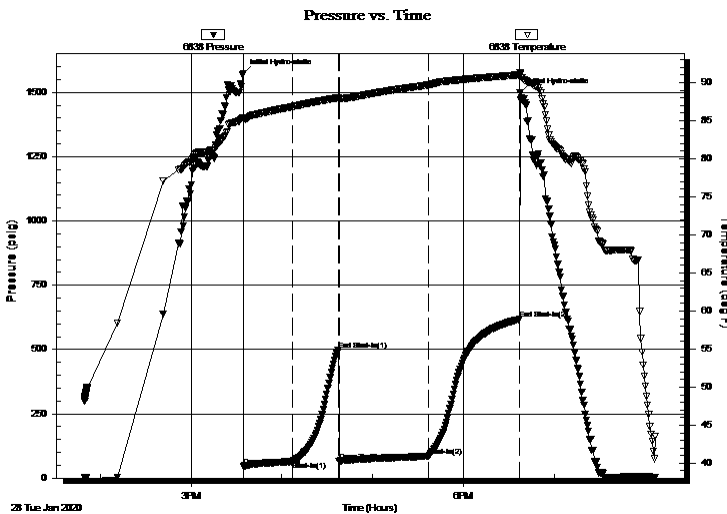
Time On Btm:

2020.01.28 @ 15:34:32

Time Off Btm:

TEST COMMENT: 30-IF-Surface to 5"
30-ISI-No Return
60-FF-Surface to 8"
60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.81	85.38	Initial Hydro-static
1	46.27	85.19	Open To Flow (1)
33	64.79	86.85	Shut-In(1)
63	498.50	87.96	End Shut-In(1)
64	64.76	87.92	Open To Flow (2)
122	85.06	89.68	Shut-In(2)
183	617.51	91.01	End Shut-In(2)
183	1498.86	91.33	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20%G 10%O 70%M	0.44
40.00	GHOCM 40%G 25%O 35%M	0.29
0.00	250 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

FLUID SUMMARY

John O Farmer Inc

28-11s-15w Russell KS

370 N Wichita Ave
PO BOX 352
Russell KS 67665+0352
ATTN: Austin Klaus

Don #1

Job Ticket: 66379

DST#: 5

Test Start: 2020.01.28 @ 13:50:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 9.18 in³

Resistivity: ohm.m

Salinity: 9000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 20%G 10%O 70%M	0.441
40.00	GHOCM 40%G 25%O 35%M	0.294
0.00	250 GIP 100%G	0.000

Total Length: 100.00 ft Total Volume: 0.735 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

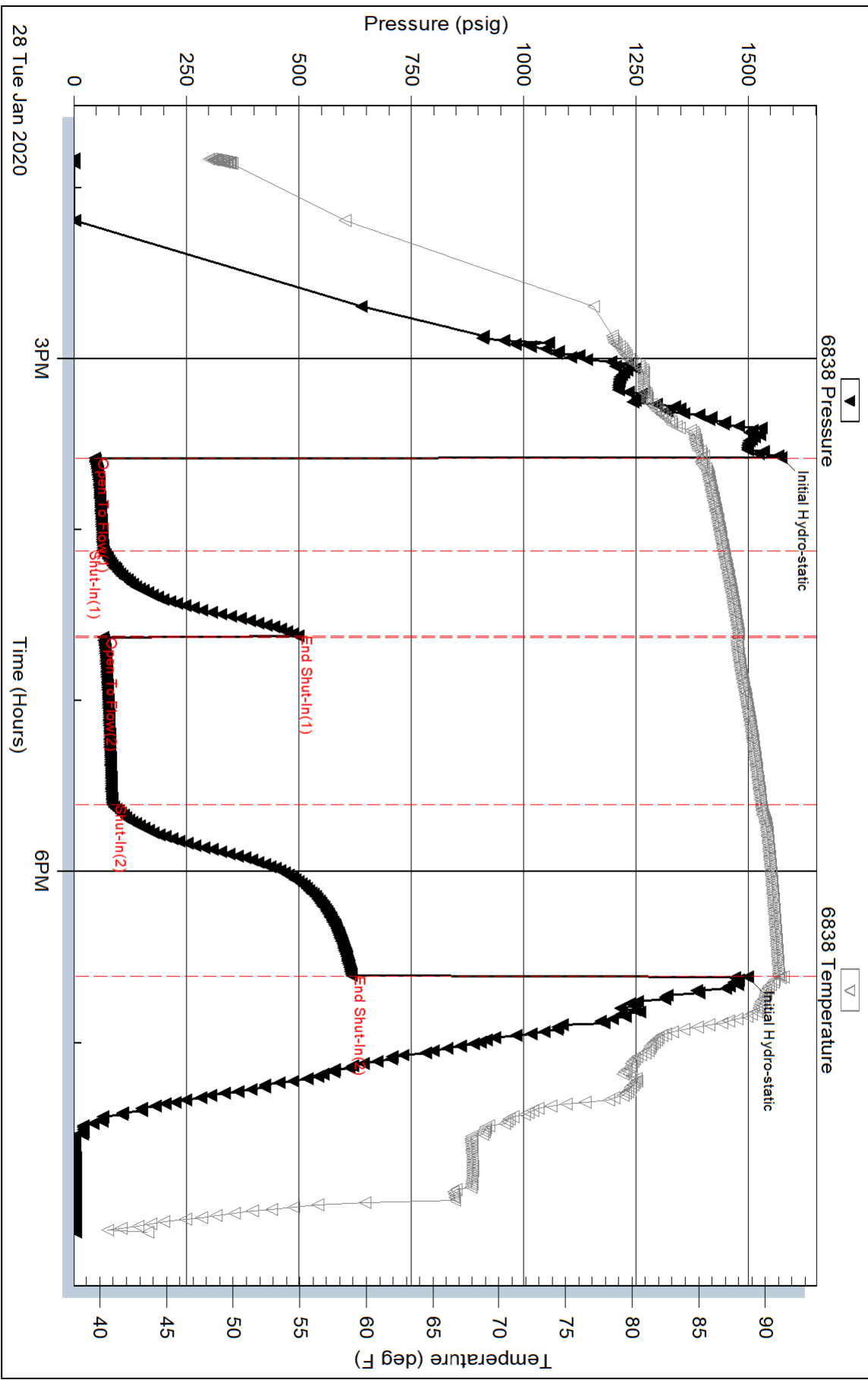
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

Pressure vs. Time



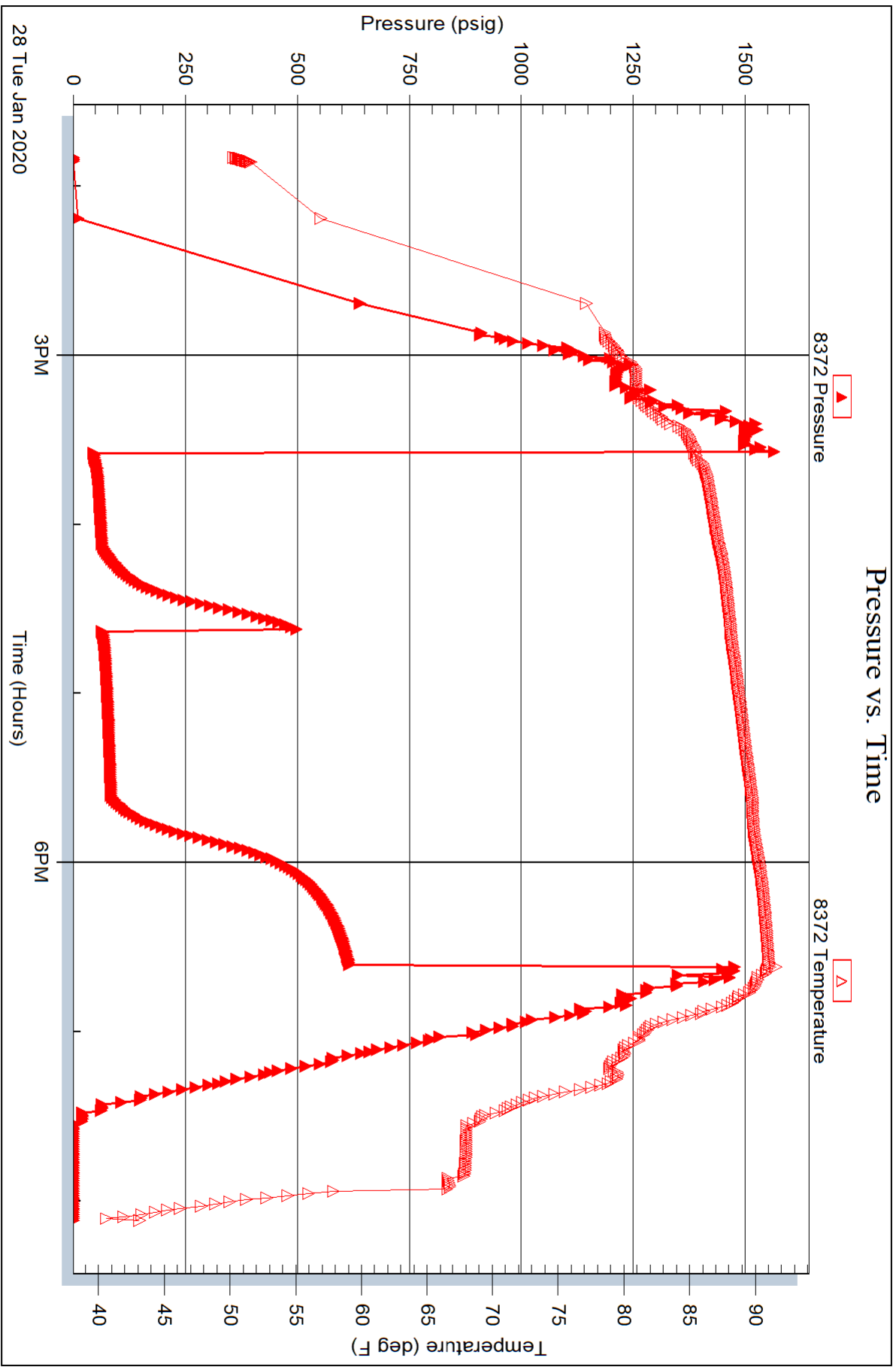
Serial #: 8372

Inside

John O Farmer Inc

Don #1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 66379

Printed: 2020.01.28 @ 23:58:08