

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 _____ 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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	BERRICK B 1
Doc ID	1673090

Tops

Name	Top	Datum
Anhydrite	784'	(+1052)
Grandhaven	2345'	(-509)
Tarkio	2418'	(-582)
Topeka	2693'	(-857)
Heebner	2928'	(-1092)
Toronto	2946'	(-1110)
Lansing	3020'	(-1184)
Base/KC	3260'	(-1424)
Arbuckle	3283'	(-1447)
L.T.D.	3358'	(-1522)



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 Avenue - P.O. Box 352 PO Box 763
Russell, KS 67665 + 0352 Hays, KS 67601

Lease: Berrick "B" # 1 Location: 530 FSL - 1050 FWL
NE/SE/SW/SW
Section 23/ 15S/ 13W
Russell County, KS

Loggers Total Depth: 3358' API#15- 167-24,124-00-00
Rotary Total Depth: 3360' Elevation: 1828 GL - 1836 KB
Commenced: 7/19/2022 Completed: 7/26/2022
Casing: 8 5/8" @ 222' W/150sks Status: Oil Well
5 1/2" @ 3358'W/130sks
(Port Collar @ 775')

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shales	<u>0'</u>	Shale	<u>818'</u>
Dakota Sand	<u>130'</u>	Shale & Lime	<u>1466'</u>
Shale	<u>181'</u>	Shale	<u>1905'</u>
Cader Hill Sand	<u>310'</u>	Shale & Lime	<u>2235'</u>
Red Bed Shale	<u>489'</u>	Lime & Shale	<u>2932'</u>
Anhydrite	<u>782'</u>	RTD	<u>3360'</u>
Base Anhydrite	<u>818'</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 8-3-2022

My Commission expires: 6-28-2026

(Place stamp or seal below)

Notary Public



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 2926

Cell 785-324-1041

Date	7-19-22	Sec.	23	Twp.	15	Range	13	County	Russell	State	Ks	On Location		Finish	2:00 p.m.
------	---------	------	----	------	----	-------	----	--------	---------	-------	----	-------------	--	--------	-----------

Lease	Berrick B	Well No.		Owner	Minto
-------	-----------	----------	--	-------	-------

Contractor	Discovery #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	Surface	Charge To	J.O. Farmer
----------	---------	-----------	-------------

Hole Size	12 1/4"	T.D.	222'
-----------	---------	------	------

Csg.	8 5/8"	Depth	224'	Street	
------	--------	-------	------	--------	--

Tbg. Size		Depth		City		State	
-----------	--	-------	--	------	--	-------	--

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

Cement Left in Csg.	15'	Shoe Joint	15'	Cement Amount Ordered	150 80% 3% cc 2% gel
---------------------	-----	------------	-----	-----------------------	----------------------

Meas Line		Displace	13 BLS		
-----------	--	----------	--------	--	--

EQUIPMENT					
Pumptrk	16	No.	Cementer Helper Jordan	Common	120
Bulktrk	15	No.	Driver Clayton	Poz. Mix	30
Bulktrk	pin	No.	Driver Rick	Gel.	3
				Calcium	6

JOB SERVICES & REMARKS					
Remarks:	Cement did Circulate			Hulls	
Rat Hole				Salt	
Mouse Hole				Flowseal	
Centralizers				Kol-Seal	
Baskets				Mud CLR 48	
D/V or Port Collar				CFL-117 or CD110 CAF 38	
				Sand	
				Handling	159
				Mileage	

FLOAT EQUIPMENT					
				Guide Shoe	
				Centralizer	
				Baskets	
				AFU Inserts	
				Float Shoe	
				Latch Down	

				Pumptrk Charge	Surface
--	--	--	--	----------------	---------

				Mileage	15
--	--	--	--	---------	----

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

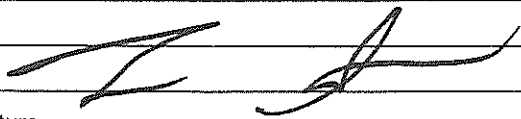
--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--

X
Signature



THANKS

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. 2931

Date	7-26-22	Sec.	23	Twp.	15	Range	13	County	Russell	State	Ks	On Location		Finish	7:30pm	
Lease	Berrick B							Well No.	1	Owner	1 1/2 E, N 1/2 into					
Contractor	Discovery #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	Longstring							Charge To J.O. Farmer								
Hole Size	7 7/8"							T.D.	3360'							
Csg.	5 1/2" 14#							Depth	3358.05'							
Tbg. Size								Depth								
Tool	Post Collar #65							Depth	775'							
Cement Left in Csg.	36.90'							Shoe Joint	36.90'							
Meas Line	Displace 81							Cement Amount Ordered 175 Com 10% Salt 5% Gilsomite								
EQUIPMENT													Common 175			
Pumptrk	16	No.	Cementer		Jordan		Poz. Mix									
Bulktrk	14	No.	Driver		Clayton		Gel.									
Bulktrk	P.U.	No.	Driver		Rick		Calcium KCL 1 gal									
JOB SERVICES & REMARKS													Hulls			
Remarks:													Salt 14			
Rat Hole 305x													Flowseal			
Mouse Hole 155x													Kol-Seal 750 #			
Centralizers 1 3 5 7 9 11 66													Mud CLR 48 500 gal			
Baskets 13 65													CFL-117 or CD110 CAF 38			
D/V or Port Collar 65 775'													Sand			
pipe on bottom break Circulation													Handling 196			
pump 500 gal mud Clear, pump													Mileage			
9 BS KCL plug Rothole +													FLOAT EQUIPMENT			
Mousehole, Cement 5 1/2" Casing													Guide Shoe Post Collar			
w/1305x. Shut down Wash 1													Centralizer 7			
pump + lines. Displaced plug w/81													Baskets 2			
BS. Released + Held.													AFU Inserts			
Lift pressure 600 #													Float Shoe 1			
Land plug to 1400 #													Latch Down 1			
													Rotating			
													Pumptrk Charge prod string			
													Mileage 15			
Signature <i>[Signature]</i>													Tax			
													Discount			
													Total Charge			

Thanks

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. 2497

Date	8/2/22	Sec.	Twp.	Range	County	State	On Location	Finish
					Russell	Kansas		10:15am
					Location Russell 10s to Strickney Rd 5 1/2 E Ninto			
Lease	Berrick	Well No. B1			Owner			
Contractor					To Quality Oilwell Cementing, Inc.			
Type Job					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		
Csg. 5 1/2					Depth	JO Farmer		
Tbg. Size 2 3/4					Depth 774'	Street		
Tool					Depth	City		
Cement Left in Csg.					Shoe Joint	State		
Meas Line					Displace	The above was done to satisfaction and supervision of owner agent or contractor.		
						Cement Amount Ordered 200 80% QMDC 1/4# flow		
EQUIPMENT					400# gel			
Pumptrk 18 No. Cementer					Common 125% QmDC			
Bulktrk 13 No. Helper					Jordani			
Bulktrk 13 No. Driver					Poz. Mix			
Bulktrk P.U. No. Driver					Tim			
Bulktrk P.U. No. Driver					David			
JOB SERVICES & REMARKS					Gel. 8			
Remarks:					Calcium			
Rat Hole					Hulls			
Mouse Hole					Salt			
Centralizers					Flowseal 50#			
Baskets					Kol-Seal			
D/V or Port Collar					Mud CLR 48			
Port collar at 774					CFL-117 or CD110 CAF 38			
Tested Tool to 500# psi					Sand			
Mixed 3gel opened tool and					Handling 200			
mixed 5gel followed by 125 SKS					Mileage			
To circulate to surface and					FLOAT EQUIPMENT			
displaced Closed Tool and Tested To 500#					Guide Shoe			
Ran 5 and washed clean					Centralizer			
Cement Did Circulate					Baskets			
					AFU Inserts			
					Float Shoe			
					Latch Down			
					Pumptrk Charge port collar			
					Mileage 15			
Signature <i>Udo Oh</i>					Thanks			
					Tax			
					Discount			
					Total Charge			

RECEIVED AUG - 8 2022



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: Berrick B #1
API: 15-167-24124-0000
Location: Russell County
License Number:
Spud Date: 7/19/2022
Surface Coordinates: Section 23 - Township 15 South - Range 13 West
530' FSL & 1,050' FWL
Bottom Hole Coordinates: Vertical well w/ minimal deviation, same as above
Ground Elevation (ft): 1,828
Logged Interval (ft): 2,250
Formation: Tarkio - Arbuckle
Type of Drilling Fluid: Chemical (Andy's Mud & Chemical Co.)

Region: Kansas
Drilling Completed: 7/26/2022
K.B. Elevation (ft): 1,836
Total Depth (ft): 3,360
To: 3,358

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

OPERATOR

Company: John O. Farmer, Inc.
Address: 370 W. Wichita Ave
Russell, KS 67665

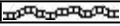
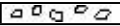







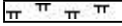


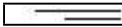
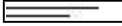

Comments

The Berrick B #1 was drilled by Discovery Drilling Rig #2 (Tool Pusher: Travis Schmidt).

The location for the Berrick B #1 was discovered via 3D seismic survey. Drill time was recorded, and rock samples were gathered and evaluated from 2,300' - 3,360'. Oil shows were encountered in several Lansing zones (see below) and Arbuckle. Structurally, the Lansing top was picked 4' high to the comparison well, Berrick Unit #1 (John O. Farmer, Inc.). Three bottom-hole drill stem tests were conducted to evaluate the Lansing zones (see results below). Structural thinning occurred below the B/KC and the Arbuckle top was picked 21' high to the comparison well. A bottom-hole test was conducted on the top 16' of the Arbuckle, which yielded commercial quantities of oil (see results below).

After comprehensive evaluation of oil shows, structural position, electric logs, and drill stem test results, the decision was made to run 5-1/2" production casing to further evaluate the Berrick B #1 on July 26, 2022.

ROCK TYPES

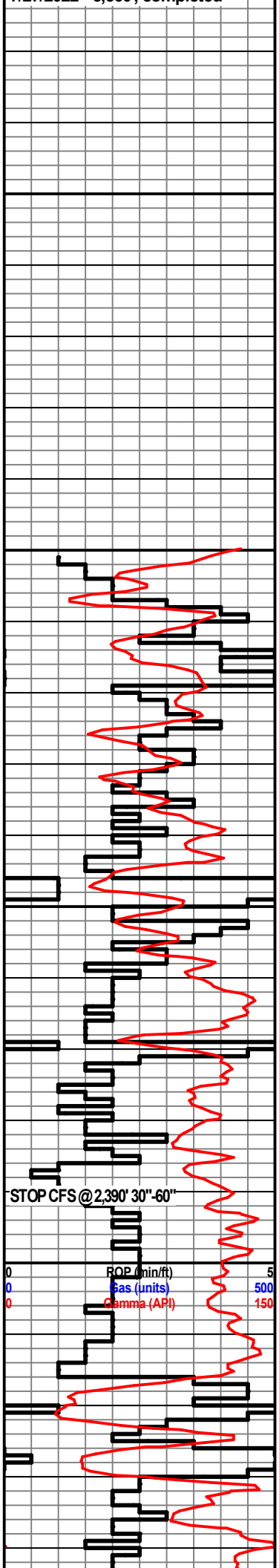
 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
---	---	---	---	---

OTHER SYMBOLS

POROSITY <input type="checkbox"/> Earthy <input type="checkbox"/> Fenest <input type="checkbox"/> Fracture <input type="checkbox"/> Inter <input type="checkbox"/> Moldic <input type="checkbox"/> Organic <input type="checkbox"/> Pinpoint	<input checked="" type="checkbox"/> Vuggy SORTING <input type="checkbox"/> Well <input type="checkbox"/> Moderate <input type="checkbox"/> Poor	ROUNDING <input type="checkbox"/> Rounded <input type="checkbox"/> Subrnd <input type="checkbox"/> Subang <input type="checkbox"/> Angular OIL SHOW <input checked="" type="checkbox"/> Even	<input type="checkbox"/> Spotted <input type="checkbox"/> Ques <input type="checkbox"/> Dead INTERVAL <input type="checkbox"/> Core <input type="checkbox"/> Dst	EVENT <input type="checkbox"/> Rft <input type="checkbox"/> Sidewall
--	--	--	--	---

Curve Track 1	MD	Lithology	Geological Descriptions	DST/Mud/Survey																					
ROP (min/ft) ——— Gas (units) - - - - - Gamma (API) ———																									
0 ROP (min/ft) 500 0 Gas (units) 150 0 Gamma (API)	21		<p><i>The open-hole logging was performed by Mr. Gus Pfanenstiel with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density Neutron, Dual Induction, and Microresistivity.</i></p> <p><i>Formation tops and datums from the open-hole logs include the following:</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Formation</th> <th>E-Log</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>784</td> <td>1052</td> </tr> <tr> <td>Grandhaven</td> <td>2345</td> <td>-509</td> </tr> <tr> <td>Tarkio</td> <td>2418</td> <td>-582</td> </tr> <tr> <td>Topeka</td> <td>2693</td> <td>-857</td> </tr> <tr> <td>Heebner</td> <td>2928</td> <td>-1092</td> </tr> <tr> <td>Toronto</td> <td>2946</td> <td>-1110</td> </tr> </tbody> </table>	Formation	E-Log	Datum	Anhydrite	784	1052	Grandhaven	2345	-509	Tarkio	2418	-582	Topeka	2693	-857	Heebner	2928	-1092	Toronto	2946	-1110	<p>Mud Engineer: Brandon Mendez</p> <p>Tester: Spencer Staab</p>
Formation	E-Log	Datum																							
Anhydrite	784	1052																							
Grandhaven	2345	-509																							
Tarkio	2418	-582																							
Topeka	2693	-857																							
Heebner	2928	-1092																							
Toronto	2946	-1110																							
DAILY PROGRESS:																									
7/18/2022 - MIRT																									
7/19/2022 - SPUD @ 8am																									
7/20/2022 - 929', drilling																									
7/21/2022 - 2,235', drilling																									
7/22/2022 - 2,657', drilling																									
7/23/2022 - 3,035', drilling																									
0 ROP (min/ft) 500 7/24/2022 - 3,120', DST #2 150 0 Gamma (API)	2200 MD																								
7/25/2022 - 3,245', DST #3																									
7/26/2022 - 3,360', logging																									
7/27/2022 - 3,360', completed																									

Lansing	3020	-1184
B/KC	3260	-1424
Arbuckle	3283	-1447
LTD	3358	-1522



2250
2300
2350
2400 MD

Sh: lt-drk gry

Ls: buff, fn-sub xln, DNS, chalky

Sh: lt-drk gry, bm

Grandhaven 2346' (-510)

Ls: buff, fn xln, mostly DNS, scat pyrite

Ss: off wh-lt bm, fn-md gm, poorly sorted, sub md, fairly well cemented, mostly tite, NSFO

Ls: off wh-buff, fn-sub xln, DNS

Sh: lt-drk gry

Ss: qtz, off wh-lt gry, fn gm, well sorted, md, fairly friable, fair int gm porosity, NSFO

Sltstrn: lt gry-bm

Sh: lt gry-bm

Tarkio 2417' (-581)

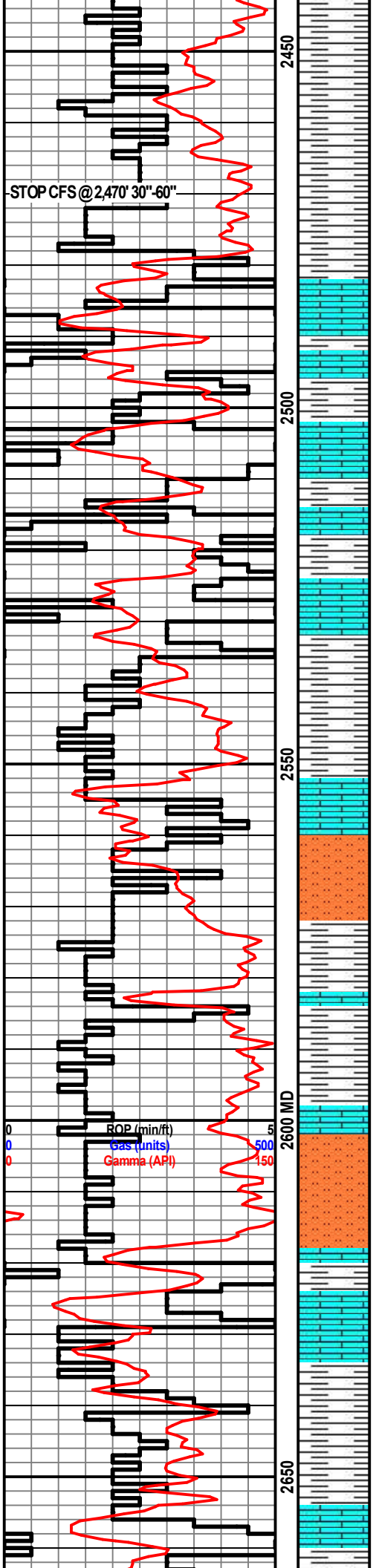
Ls: tan-buff, fn-sub xln, DNS, chalky

Ls: ala

Ss: qtz, off wh-lt gry, fn gm, poorly sorted, poorly cemented, poor int gm porosity, NSFO

Wt: 8.6
Vis: 56

STOP CFS @ 2,390' 30"-60"
ROP (min/ft)
Gas (units)
Gamma (API)



- Siltstn: lt gry-bm
- Sh: lt-drk gry-bm
- Ls: off wh, fn xln, fossil, scat pyrite
- Ls: buff, fn xln, sl chalky
- Sh: lt-drk gry
- Ls: buff, fn xln, scat foss
- Sh: drk gry-blk
- Ls: buff-gry, fn xln, foss
- Siltstn: lt gry-bm
- Sh: lt-drk gry
- Ls: buff, fn xln, chalky
- Siltstn: lt gry-bm
- Sh: blk, gry, gm
- Sh: lt-drk gry
- Ls: off wh-buff, fn xln, scat foss

0 ROP (min/ft)
 0 Gas (units)
 0 Gamma (API)

2600 MD

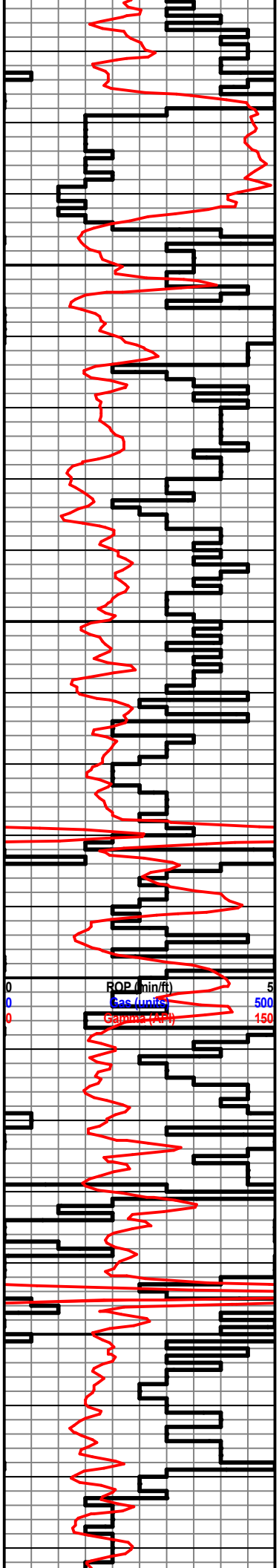
2650

2450

2500

2550

STOP CFS @ 2,470' 30"-60"



Sh: gry, gm, blk

Topeka 2695' (-859)

Ls: lt gry-buff, fn-sub xln, NSFO

Ls: off wh-buff, fn xln, scat chalky, pyrite

Ls: off wh-tan, fn xln, scat foss

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

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

Ls: off wh-buff, fn xln, foss

Ls: ala

Sh: drk gry-blk

Sh: lt gry-bm

Ls: off wh-buff, fn xln, poor int xln porosity, scat foss

Ls: ala

Sh: lt gry-bm

Sh: drk gry-blk

Ls: off wh-buff, fn xln, poor int part porosity, scat chalk, foss

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

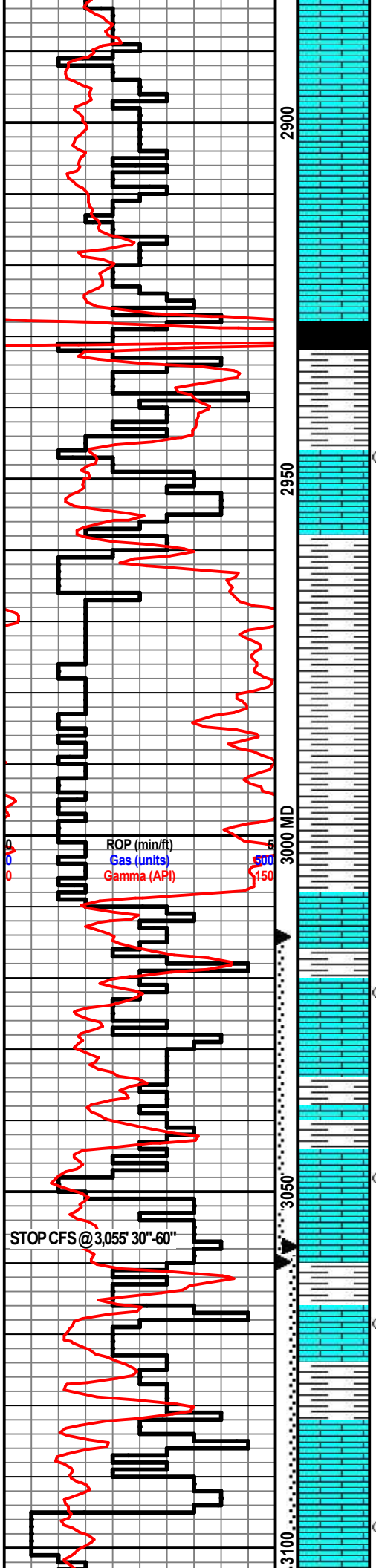
Ls: off wh-tan, fn xln, fair int xln porosity, scat lt oil strn, NSFO, scat chalk

Wt: 9.1
Vis: 56

ROP (min/ft) 500
Gas (units) 150
Gamma (pcf)

2800 MD

2850



NSFO, scat chalk

Ls: off wh-tan, fn xln, scat chalk, NSFO

Ls: ala

Heebner 2930' (-1094)

Sh: blk, carb, fissile

Sh: lt gry-gm, scat soft

Toronto 2946' (-1110)

Ls: off wh-tan, fn-md xln, few rxs fair int xln porosity, sl-fair oil sat, SSFO when brkn, fair-good odor

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

Sh: lt gry-bm

Sltstn: lt gry

Sh: lt-drk gry, gm, bm

Sh: lt gry-bm

Brown Lime 3009' (-1173)

Ls: off wh-buff, fn xln, scat foss

Lansing 3019' (-1183)

Ls: off wh-tan, fn xln, ool, fair ool & scat int xln porosity, sl-fair oil stn in porosity, weak odor

Ls: off wh-tan, fn xln, ool, scat chalk

Sh: lt-drk gry

Ls: off wh-tan, ool, fair ool porosity & fair-good int xln porosity, sl-fair oil stn, VSSFO, fair odor, scat chalk

Sh: drk gry-bm

Ls: off wh-tan, ool, poor-fair int xln porosity, lt oil stn in porosity, VSSFO, lt odor

Sh: lt gry-bm

Ls: off wh-tan, fn xln, chalky, scat chert

Ls: off wh-tan, fn xln, ool, fair-good ool porosity (tite), lt oil stn in porosity, VSSFO, sl-fair odor

DST #1: 3,014 - 3,060' (LANSING A-C)

30" - 30" - 60" - 60"

IF: weak blow built to 1/4", no blow back on shut in

FF: weak blow built to 4", no blow back on shut in

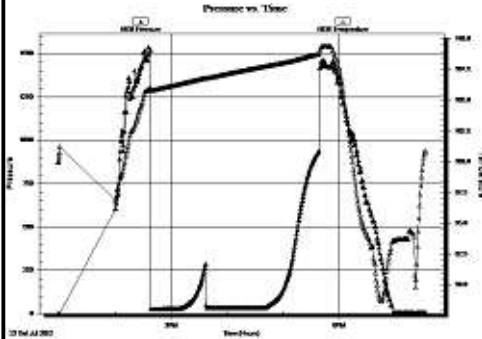
Rec: 50' Gassy Slight Oil Cut Mud (10%G, 2%O, 88%M)

FP: 22-26, 29-32#

SIP: 301-952#

HP: 1,526-1,469#

BHT: 109



Wt: 9.4

Vis: 50

DST #2: 3,058 - 3,120' (LANSING E-G)

30" - 30" - 60" - 60"

IF: weak blow built to 10", weak surface blow back on shut in

FF: BOB in 50 min., 1" surface blow back on shut in

Rec: 300' Gas in Pipe

60' Gassy Heavy Oil Cut Mud (20%G, 30%O, 50%M)

60' Slight Oil Cut Watery Mud (5%O, 15%W, 80%M)

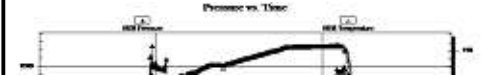
150' Muddy Water (10%M, 90%W) (Chl.53k)

FP: 28-76, 82-149#

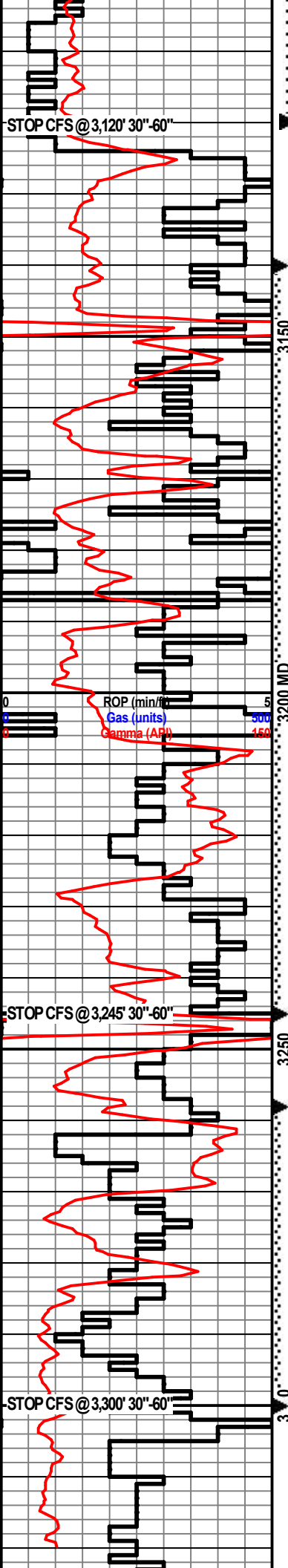
SIP: 964-961#

HP: 1,553-1,492#

BHT: 110



STOP CFS @ 3,055' 30"-60"



Ls: off wh-tan, fn xln, ool, fair-good oom porosity, NSFO

Sh: lt-drk gry

Ls: tan-lt gry, fn xln, scat chert-off wh

Ls: ala

Sh: drk gry-blk

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

Sh: lt-drk gry

Ls: off wh-tan, fn xln, ool, scat fair ool porosity, scat chert-off wh

Sh: lt gry-bm

Ls: off wh-tan, fn xln, ool, poor-fair int xln porosity, scat oil stn, SSFO when brkn, sl-fair odor

Sh: gry-bm

Sh: ala

Ls: off wh-tan, fn xln, poor, few pcs fair int xln porosity, mostly tite rxns, scat oil stn, VSSFO, sl odor

Ls: buff, fn xln, mostly DNS, NSFO

STOP CFS @ 3,245' 30"-60"

Sh: lt gry-bm-gm

Ls: buff, fn-sub xln, DNS, scat chert, chalky

B/KC 3263' (-1427)

Sh: lt gry

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

Arbuckle 3284' (-1448)

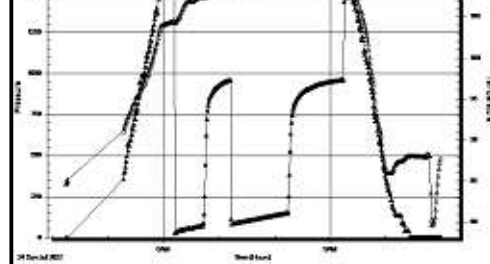
Dolo: off wh, fn-md xln, rhomb, fair-good int xln porosity, fair-good oil stn-good sat, FSFO in cup, good odor

Dolo: off wh, fn-md xln, rhomb, poor int xln porosity, mostly tite, NSFO, abnd sh: drk gry-blk

STOP CFS @ 3,300' 30"-60"

Dolo: off wh, fn-md xln, rhomb, fair int xln porosity, sl oil stn, few rxns lt-fair oil sat, SSFO when brkn, fair-good odor

Dolo: off wh, fn-md xln, rhomb, poor int xln porosity,



Wt: 9.3

Vis: 59

DST #3: 3,140 - 3,245' (LANSING H-K)

30" - 30" - 30" - 30"

IF: Weak blow built to 1/2", no blow back on shut in

FF: Weak blow built to 1/2", no blow back on shut in

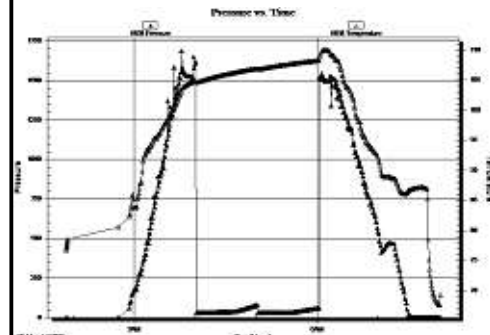
Rec: 20' Oil Spotted Mud

FP: 25-31, 26-31#

SIP: 85-66#

HP: 1,623-1,540#

BHT: 109



DST #4: 3,258 - 3,300' (TOP 16' ARBUCKLE)

15" - 30" - 10" - 30"

IF: BOB in 3.5 min, 2.5" blow back on shut in

FF: BOB in 4 min, 1" blow back on shut in

Rec: 570' Gas in Pipe

475' Gassy Oil (20%G, 80%O) 40 API Gravity

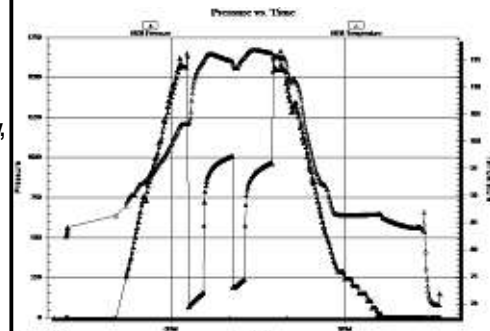
160' Gassy Heavy Oil Cut Mud (25%G, 35%O, 40%M)

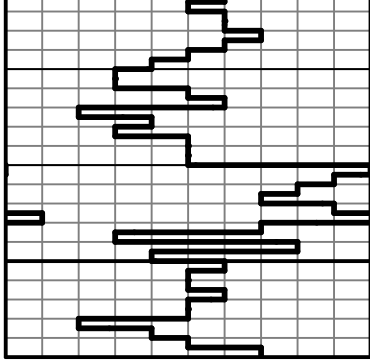
FP: 81-161, 181-239#

SIP: 1,010-970#

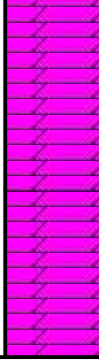
HP: 1,617-1,581#

BHT: 115





3350



mostly tite, NSFO, chert-off wh

Dolo: off wh, fn xln, poor int xln porosity, DNS, chert-off wh, scat sh: drk gry

Dolo: off wh-tan, fn xln, poor int xln porosity, DNS, hvy chert-off wh

Dolo: ala





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell, KS 67665+0352

ATTN: Austin Klaus

Berrick B #1

23-15s-13w Russell,KS

Start Date: 2022.07.23 @ 12:58:00

End Date: 2022.07.23 @ 19:33:47

Job Ticket #: 69777 DST #: 1

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

Printed: 2022.07.26 @ 09:35:05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell, KS 67665+0352
 ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
 Job Ticket: 69777 **DST#: 1**
 Test Start: 2022.07.23 @ 12:58:00

GENERAL INFORMATION:

Formation: **LKC A - C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:37:32
 Time Test Ended: 19:33:47
 Interval: **3014.00 ft (KB) To 3060.00 ft (KB) (TVD)**
 Total Depth: 3060.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 1836.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 8.00 ft

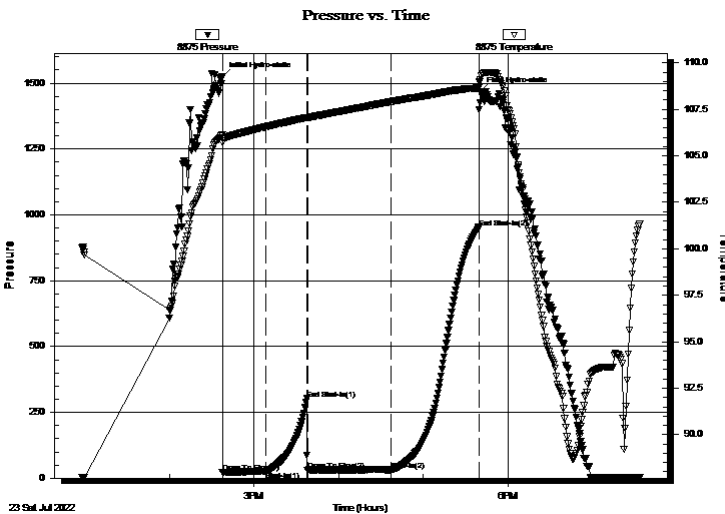
Serial #: 8875

Inside

Press@RunDepth: 31.79 psig @ 3017.00 ft (KB) Capacity: psig
 Start Date: 2022.07.23 End Date: 2022.07.23 Last Calib.: 2022.07.23
 Start Time: 12:58:01 End Time: 19:33:47 Time On Btm: 2022.07.23 @ 14:37:22
 Time Off Btm: 2022.07.23 @ 17:40:27

TEST COMMENT: 30-IF-Surface to 1/4"
 30-ISI-No Return
 60-FF-Surface to 4"
 60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1525.83	106.13	Initial Hydro-static
1	22.29	105.72	Open To Flow (1)
32	26.39	106.57	Shut-In(1)
60	301.37	107.05	End Shut-In(1)
61	28.69	107.05	Open To Flow (2)
120	31.79	107.92	Shut-In(2)
182	952.09	108.67	End Shut-In(2)
184	1469.17	109.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GV/SOCM 10%G 2%O 88%M	0.43
0.00	100 GIP 100%G	0.00

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

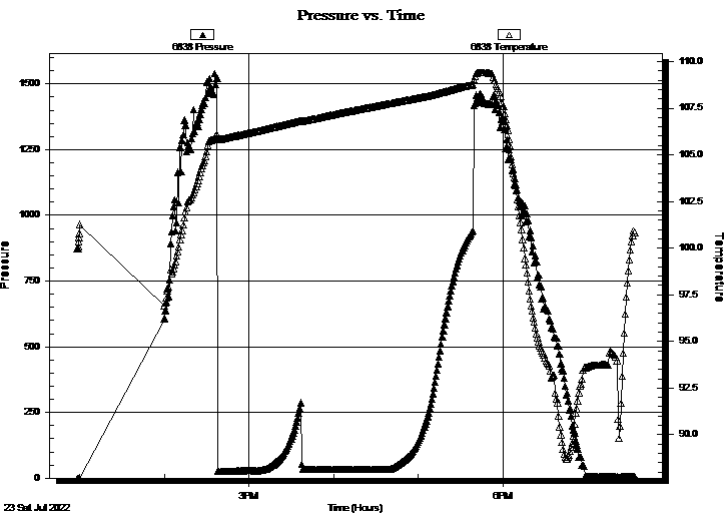
23-15s-13w Russell, KS
Berrick B #1
Job Ticket: 69777 **DST#: 1**
Test Start: 2022.07.23 @ 12:58:00

GENERAL INFORMATION:

Formation: **LKC A - C**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 14:37:32 Tester: Spencer J Staab
Time Test Ended: 19:33:47 Unit No: 84
Interval: 3014.00 ft (KB) To 3060.00 ft (KB) (TVD) Reference Elevations: 1836.00 ft (KB)
Total Depth: 3060.00 ft (KB) (TVD) 1828.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6838 Inside
Press@RunDepth: psig @ 3017.00 ft (KB) Capacity: psig
Start Date: 2022.07.23 End Date: 2022.07.23 Last Calib.: 2022.07.23
Start Time: 12:58:01 End Time: 19:33:47 Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Surface to 1/4"
30-ISI-No Return
60-FF-Surface to 4"
60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GV SOCM 10%G 2%O 88%M	0.43
0.00	100 GIP 100%G	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69777 **DST#: 1**
Test Start: 2022.07.23 @ 12:58:00

Tool Information

Drill Pipe:	Length: 2970.00 ft	Diameter: 3.82 inches	Volume: 42.10 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	40000.00 daN
Depth to Top Packer:	3014.00 ft			Final	41000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

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

Change Over Sub	1.00			2988.00	
Shut In Tool	5.00			2993.00	
Hydraulic tool	5.00			2998.00	
Gap Sub	4.00			3002.00	
Safety Joint	3.00			3005.00	
Packer	5.00			3010.00	27.00 Bottom Of Top Packer
Packer	4.00			3014.00	
Stubb	1.00			3015.00	
Perforations	1.00			3016.00	
Change Over Sub	1.00			3017.00	
Recorder	0.00	6838	Inside	3017.00	
Recorder	0.00	8875	Inside	3017.00	
Drill Pipe	32.00			3049.00	
Change Over Sub	1.00			3050.00	
Perforations	7.00			3057.00	
Bullnose	3.00			3060.00	46.00 Bottom Packers & Anchor
Total Tool Length:	73.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69777 **DST#: 1**
Test Start: 2022.07.23 @ 12:58:00

Mud and Cushion Information

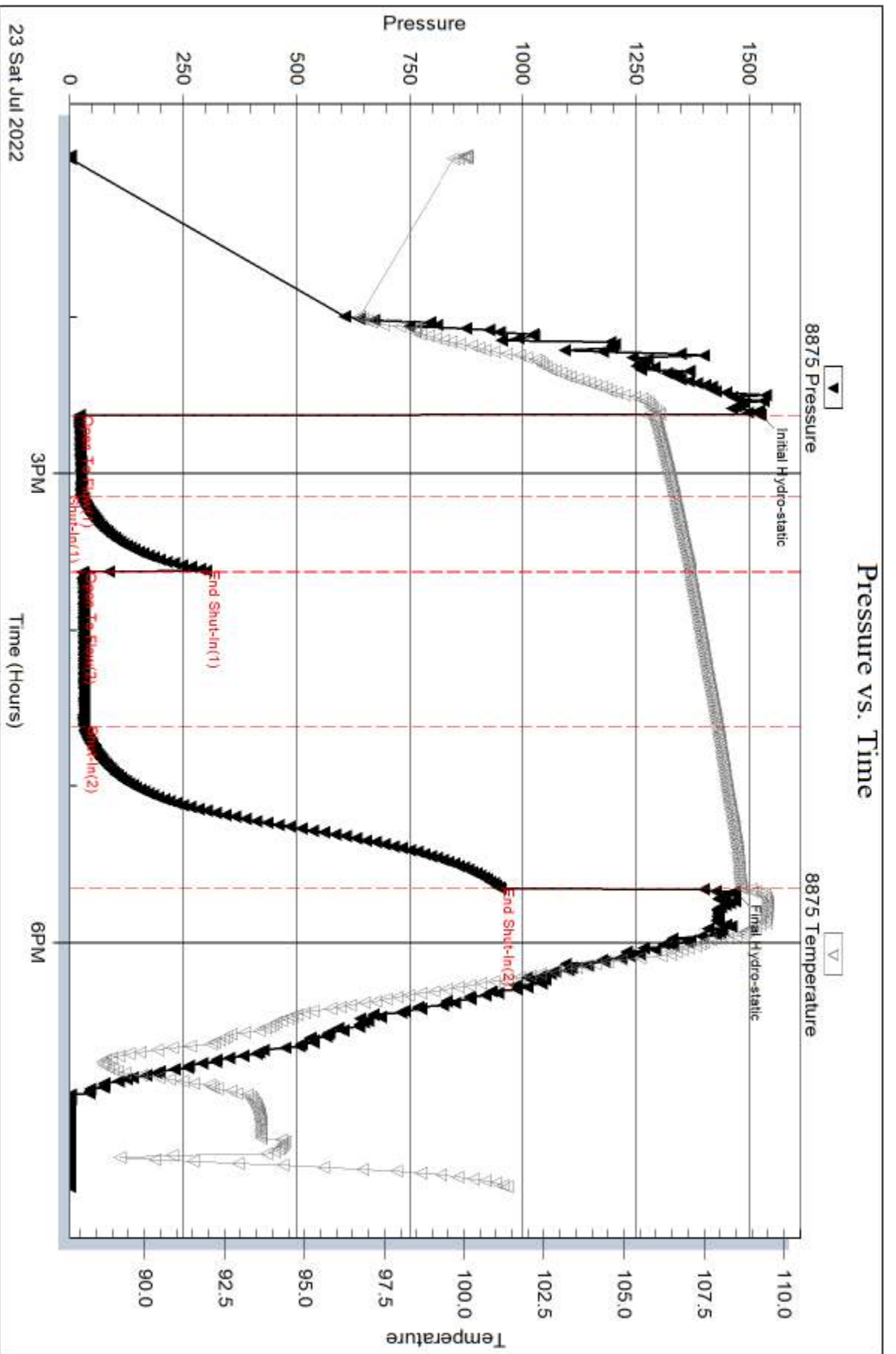
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	GVSOCM 10%G 2%O 88%M	0.431
0.00	100 GIP 100%G	0.000

Total Length: 50.00 ft Total Volume: 0.431 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1.5#LCM



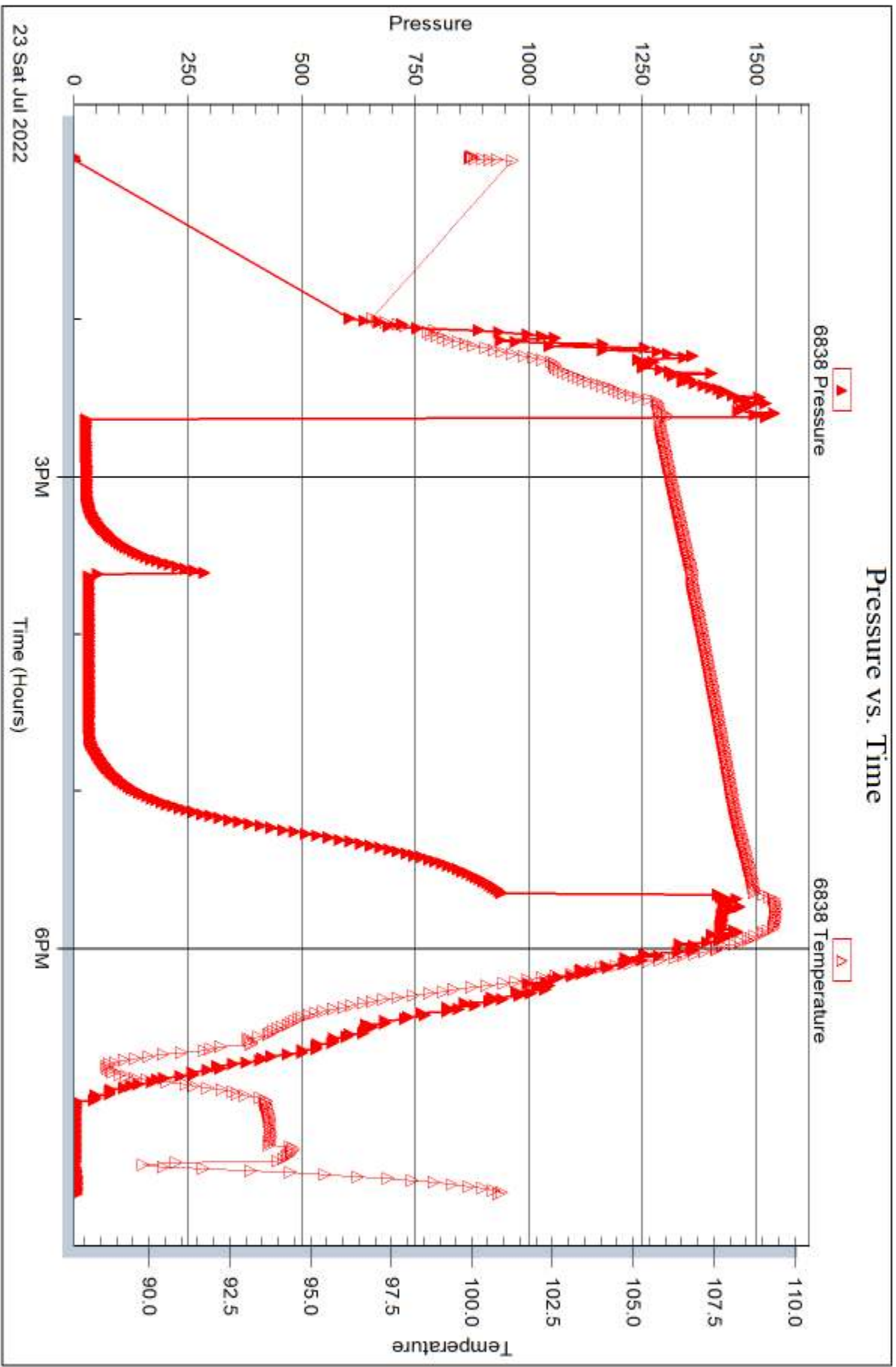
Serial #: 6838

Inside

John O Farmer Inc

Berrick B #1

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 69777

Printed: 2022.07.26 @ 09:35:06



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell, KS 67665+0352

ATTN: Austin Klaus

Berrick B #1

23-15s-13w Russell,KS

Start Date: 2022.07.24 @ 04:15:00

End Date: 2022.07.24 @ 10:58:47

Job Ticket #: 69778 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.26 @ 09:31:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

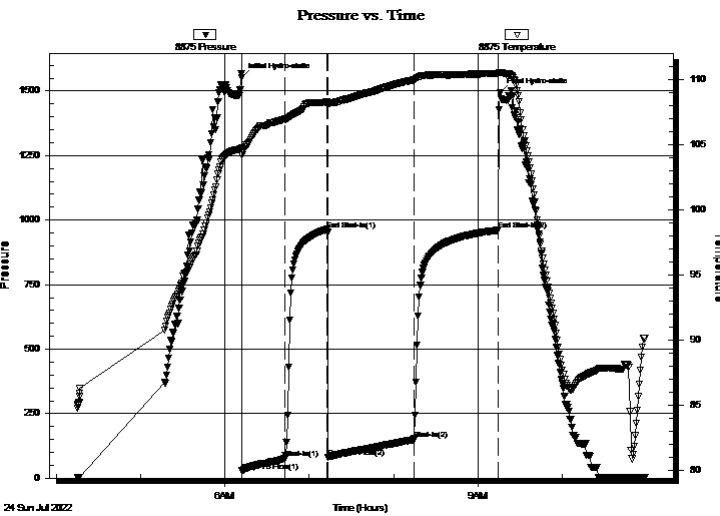
23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69778 **DST#: 2**
Test Start: 2022.07.24 @ 04:15:00

GENERAL INFORMATION:

Formation: **LKC E - G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:12:07
Time Test Ended: 10:58:47
Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J Staab
Unit No: 84
Interval: **3058.00 ft (KB) To 3120.00 ft (KB) (TVD)**
Reference Elevations: 1836.00 ft (KB)
Total Depth: 3120.00 ft (KB) (TVD) 1828.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8875 Inside
Press@RunDepth: 149.30 psig @ 3061.00 ft (KB) Capacity: psig
Start Date: 2022.07.24 End Date: 2022.07.24 Last Calib.: 2022.07.24
Start Time: 04:15:01 End Time: 10:58:47 Time On Btm: 2022.07.24 @ 06:12:02
Time Off Btm: 2022.07.24 @ 09:15:57

TEST COMMENT: 30-IF-Surface to 10"
30-ISI-Weak Surface
60-FF-BOB 50 mins Built to 12.5"
60-FSI-Surface to 1" Died back to Surface



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1552.89	104.75	Initial Hydro-static
1	28.06	104.25	Open To Flow (1)
31	75.64	106.95	Shut-In(1)
61	963.92	108.27	End Shut-In(1)
62	81.90	108.11	Open To Flow (2)
123	149.30	109.99	Shut-In(2)
183	961.27	110.48	End Shut-In(2)
184	1492.08	110.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW 10%M 90%W	1.85
60.00	SOCWM 5%O 15%W 80%M	0.85
60.00	GHOCM 20%G 30%O 50%M	0.85
0.00	300 GIP 100%G	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69778 **DST#: 2**
Test Start: 2022.07.24 @ 04:15:00

GENERAL INFORMATION:

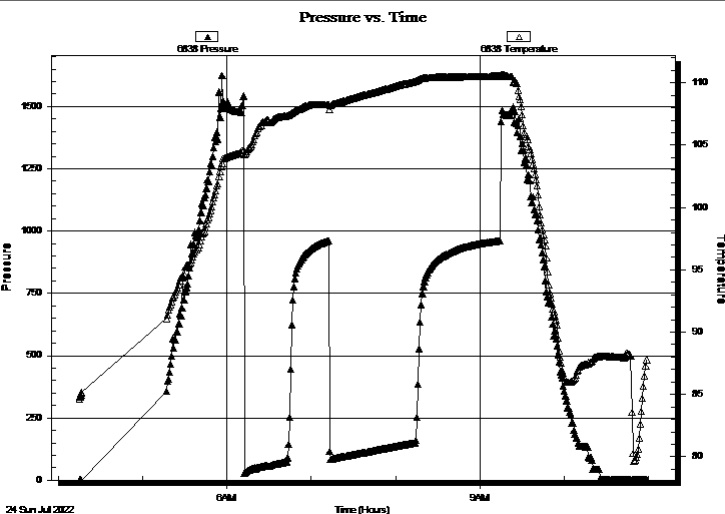
Formation: **LKC E - G**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 06:12:07
 Tester: Spencer J Staab
 Time Test Ended: 10:58:47
 Unit No: 84
Interval: 3058.00 ft (KB) To 3120.00 ft (KB) (TVD)
 Reference Elevations: 1836.00 ft (KB)
 Total Depth: 3120.00 ft (KB) (TVD) 1828.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6838

Inside

Press@RunDepth: psig @ 3061.00 ft (KB) Capacity: psig
 Start Date: 2022.07.24 End Date: 2022.07.24 Last Calib.: 2022.07.24
 Start Time: 04:15:01 End Time: 10:58:47 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Surface to 10"
 30-ISI-Weak Surface
 60-FF-BOB 50 mins Built to 12.5"
 60-FSI-Surface to 1" Died back to Surface



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW 10%M 90%W	1.85
60.00	SOCWM 5%O 15%W 80%M	0.85
60.00	GHOCM 20%G 30%O 50%M	0.85
0.00	300 GIP 100%G	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69778 **DST#: 2**
Test Start: 2022.07.24 @ 04:15:00

Tool Information

Drill Pipe:	Length: 3031.00 ft	Diameter: 3.82 inches	Volume: 42.97 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	46000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	43000.00 daN
Drill Pipe Above KB:	30.00 ft			Final	45000.00 daN
Depth to Top Packer:	3058.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	62.00 ft				
Tool Length:	89.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3032.00	
Shut In Tool	5.00			3037.00	
Hydraulic tool	5.00			3042.00	
Gap Sub	4.00			3046.00	
Safety Joint	3.00			3049.00	
Packer	5.00			3054.00	27.00 Bottom Of Top Packer
Packer	4.00			3058.00	
Stubb	1.00			3059.00	
Perforations	1.00			3060.00	
Change Over Sub	1.00			3061.00	
Recorder	0.00	6838	Inside	3061.00	
Recorder	0.00	8875	Inside	3061.00	
Drill Pipe	32.00			3093.00	
Change Over Sub	1.00			3094.00	
Perforations	23.00			3117.00	
Bullnose	3.00			3120.00	62.00 Bottom Packers & Anchor
Total Tool Length:	89.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69778 **DST#: 2**
Test Start: 2022.07.24 @ 04:15:00

Mud and Cushion Information

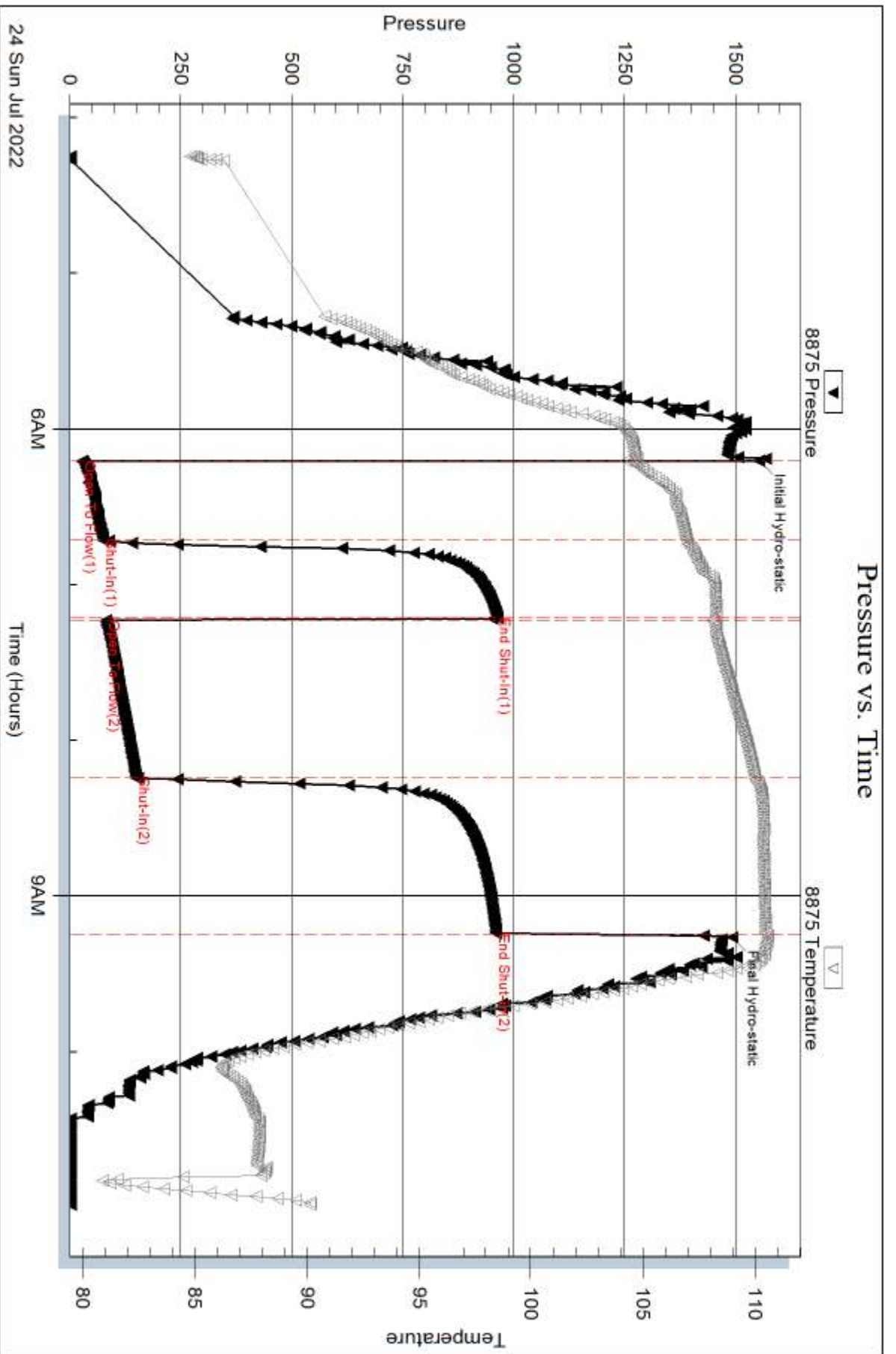
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	53000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

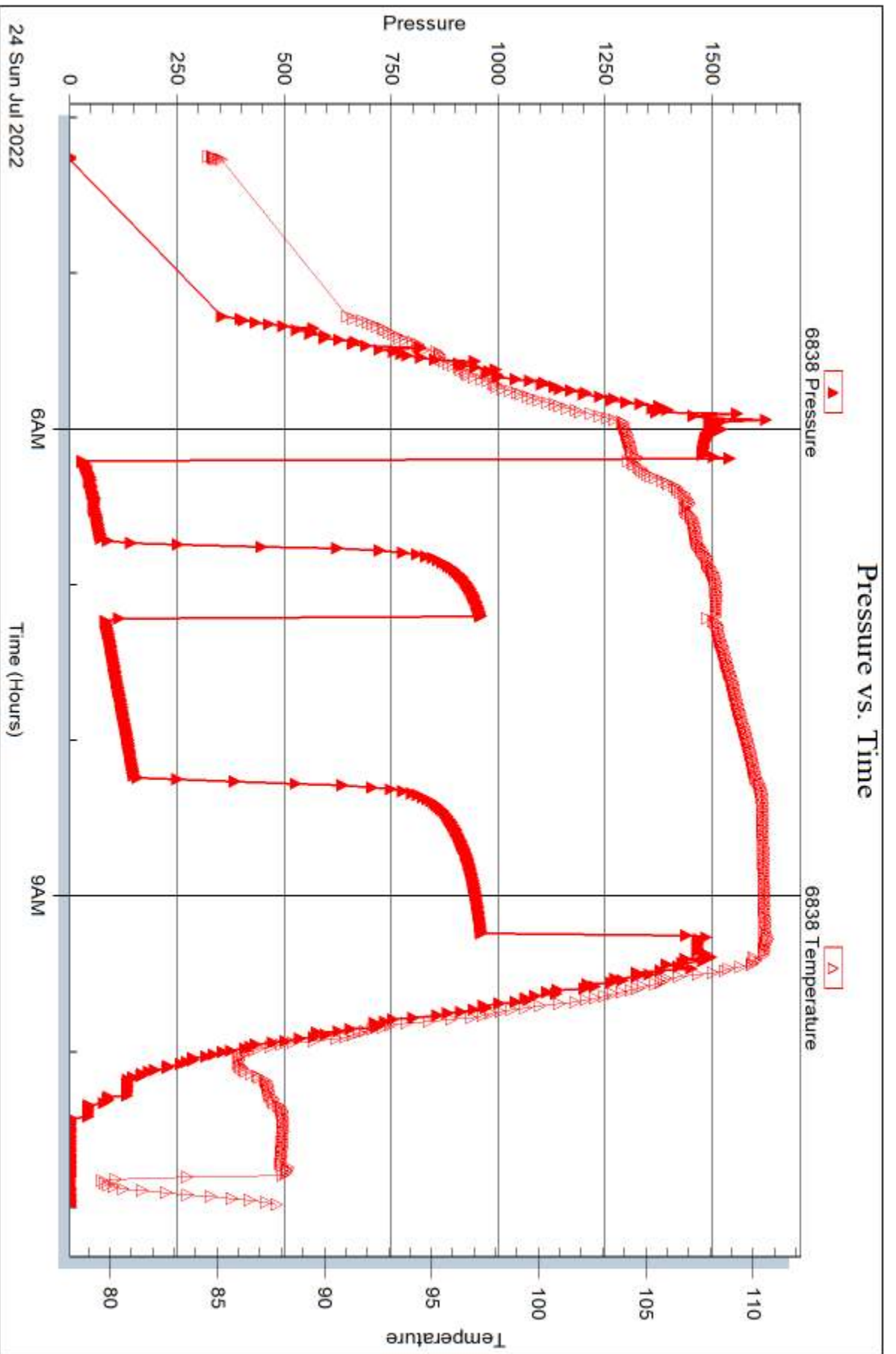
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MW 10%M 90%W	1.849
60.00	SOCWM 5%O 15%W 80%M	0.851
60.00	GHOCM 20%G 30%O 50%M	0.851
0.00	300 GIP 100%G	0.000

Total Length: 270.00 ft Total Volume: 3.551 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 1.5#LCM
RW=.136@75F







DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell, KS 67665+0352

ATTN: Austin Klaus

Berrick B #1

23-15s-13w Russell,KS

Start Date: 2022.07.25 @ 01:53:00

End Date: 2022.07.25 @ 08:01:32

Job Ticket #: 69779 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.26 @ 09:31:23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69779 **DST#: 3**
Test Start: 2022.07.25 @ 01:53:00

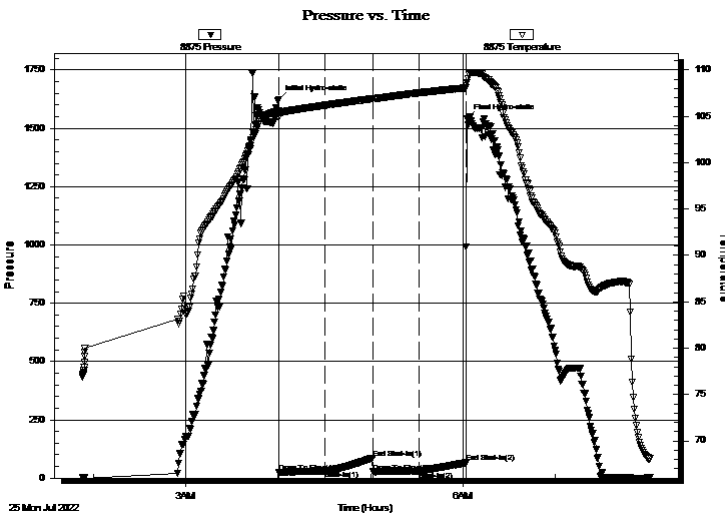
GENERAL INFORMATION:

Formation: **LKC H - K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:00:32
Time Test Ended: 08:01:32
Interval: **3140.00 ft (KB) To 3245.00 ft (KB) (TVD)**
Total Depth: 3245.00 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: 1836.00 ft (KB)
1828.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8875 **Inside**
Press@RunDepth: 30.92 psig @ 3145.00 ft (KB) Capacity: psig
Start Date: 2022.07.25 End Date: 2022.07.25 Last Calib.: 2022.07.25
Start Time: 01:53:01 End Time: 08:01:32 Time On Btm: 2022.07.25 @ 04:00:27
Time Off Btm: 2022.07.25 @ 06:02:32

TEST COMMENT: 30-IF-Surface to 1/2"
30-ISI-No Return
30-FF-Surface to 1/2"
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.50	105.64	Initial Hydro-static
1	25.26	104.86	Open To Flow (1)
30	31.37	106.19	Shut-In(1)
61	85.47	106.89	End Shut-In(1)
62	26.37	106.90	Open To Flow (2)
91	30.92	107.53	Shut-In(2)
122	65.91	108.10	End Shut-In(2)
123	1540.30	108.63	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell, KS 67665+0352
 ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
 Job Ticket: 69779 **DST#: 3**
 Test Start: 2022.07.25 @ 01:53:00

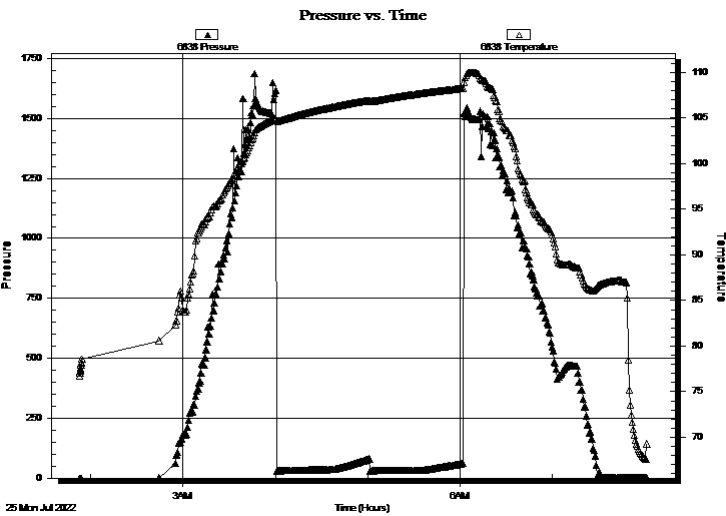
GENERAL INFORMATION:

Formation: **LKC H - K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:00:32
 Time Test Ended: 08:01:32
Interval: 3140.00 ft (KB) To 3245.00 ft (KB) (TVD)
 Total Depth: 3245.00 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: 1836.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6838 Inside

Press@RunDepth: psig @ 3145.00 ft (KB) Capacity: psig
 Start Date: 2022.07.25 End Date: 2022.07.25 Last Calib.: 2022.07.25
 Start Time: 01:53:01 End Time: 08:01:32 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Surface to 1/2"
 30-ISI-No Return
 30-FF-Surface to 1/2"
 30-FSI-No Return



PRESSURE SUMMARY

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

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc
 PO Box 352
 Russell, KS 67665+0352
 ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
 Job Ticket: 69779 **DST#: 3**
 Test Start: 2022.07.25 @ 01:53:00

Tool Information

Drill Pipe:	Length: 3097.00 ft	Diameter: 3.82 inches	Volume: 43.90 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 daN
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	45000.00 daN
Depth to Top Packer:	3140.00 ft			Final	45000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	105.00 ft				
Tool Length:	132.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3114.00	
Shut In Tool	5.00			3119.00	
Hydraulic tool	5.00			3124.00	
Gap Sub	4.00			3128.00	
Safety Joint	3.00			3131.00	
Packer	5.00			3136.00	27.00 Bottom Of Top Packer
Packer	4.00			3140.00	
Stubb	1.00			3141.00	
Perforations	3.00			3144.00	
Change Over Sub	1.00			3145.00	
Recorder	0.00	6838	Inside	3145.00	
Recorder	0.00	8875	Inside	3145.00	
Drill Pipe	95.00			3240.00	
Change Over Sub	1.00			3241.00	
Perforations	1.00			3242.00	
Bullnose	3.00			3245.00	105.00 Bottom Packers & Anchor
Total Tool Length:	132.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69779 **DST#: 3**
Test Start: 2022.07.25 @ 01:53:00

Mud and Cushion Information

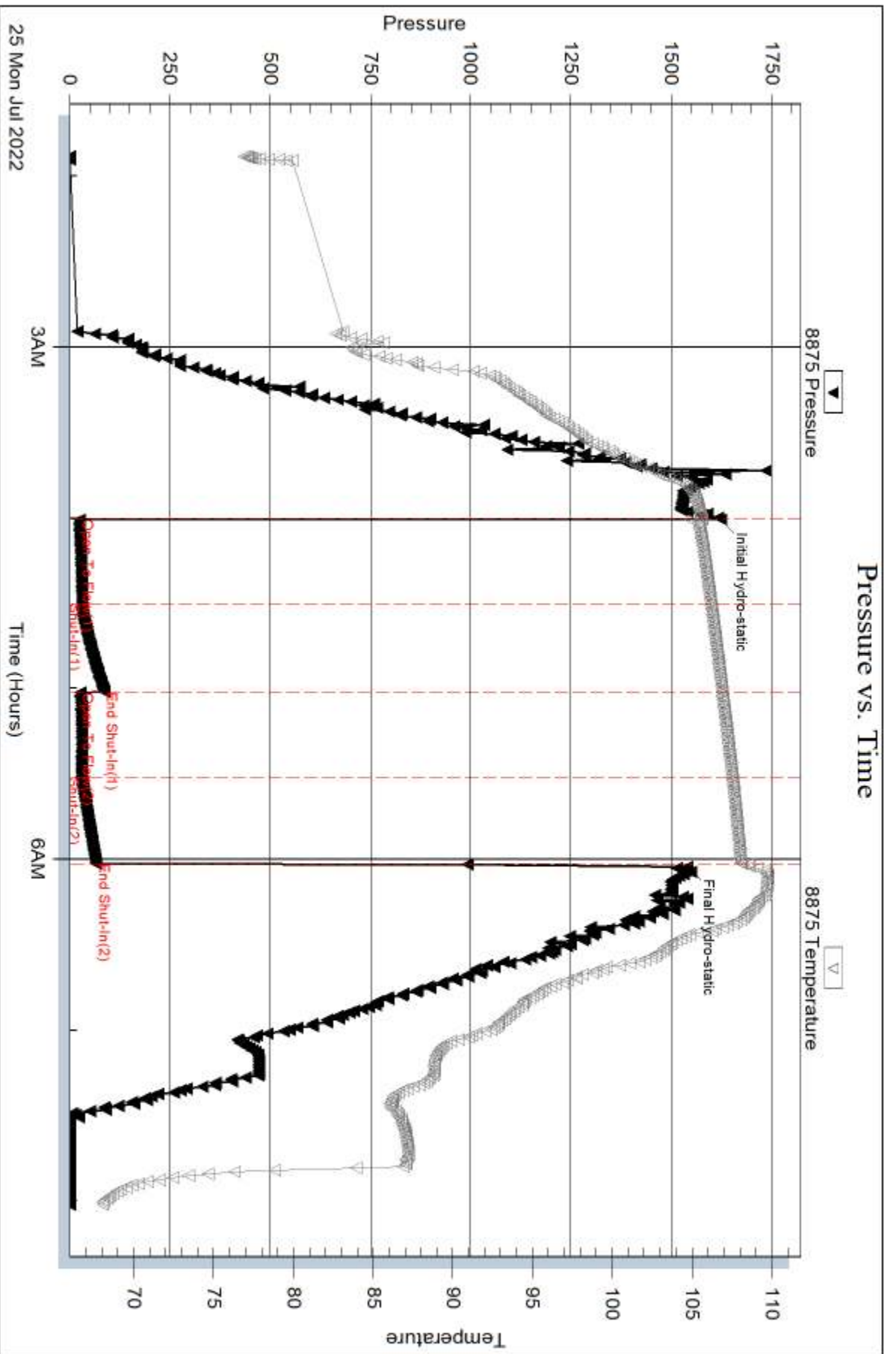
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OSM 100%M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1.5#LCM



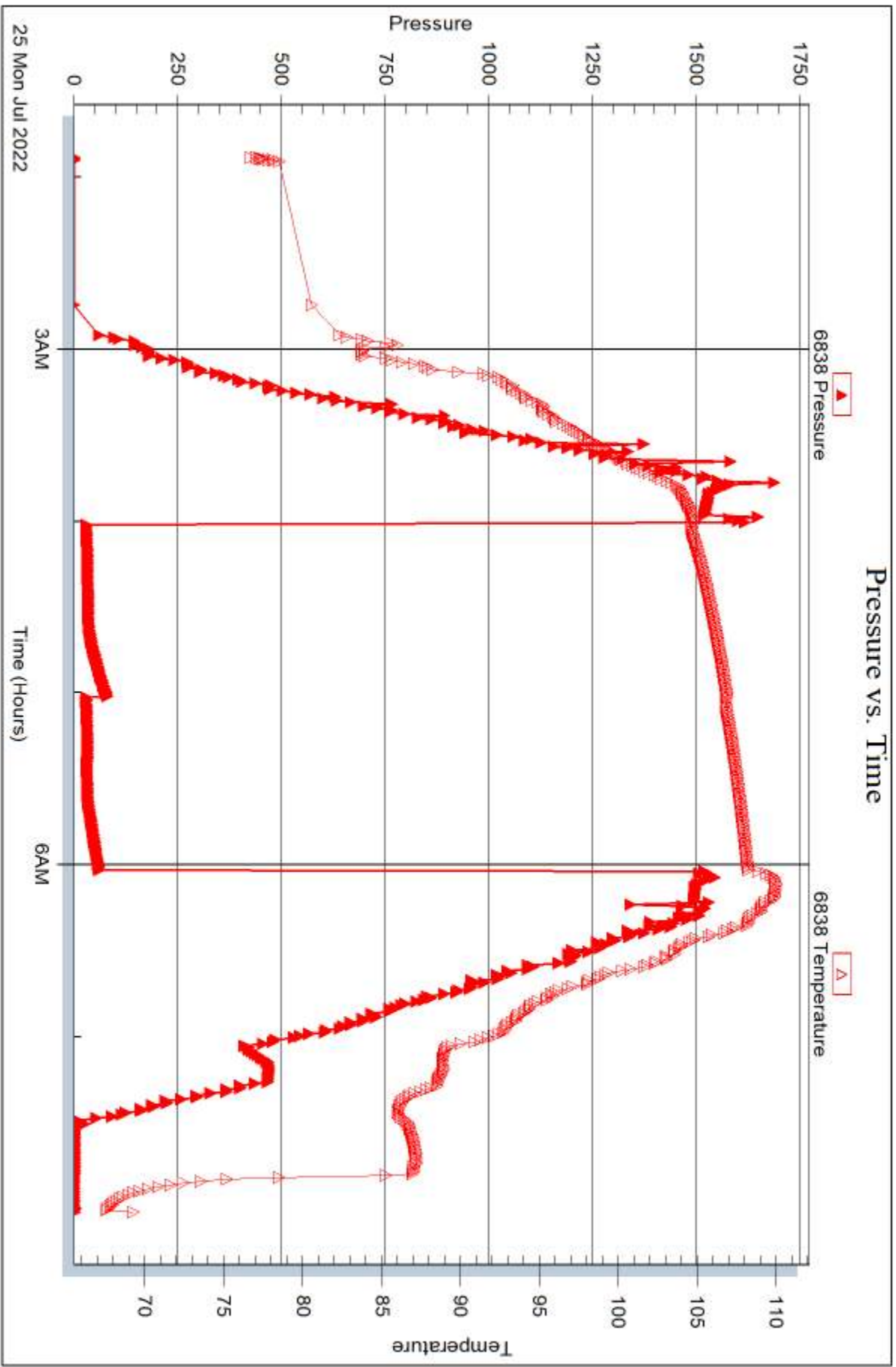
Serial #: 6838

Inside

John O Farmer Inc

Berrick B #1

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 69779

Printed: 2022.07.26 @ 09:31:25



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell, KS 67665+0352

ATTN: Austin Klaus

Berrick B #1

23-15s-13w Russell,KS

Start Date: 2022.07.25 @ 16:12:00

End Date: 2022.07.25 @ 22:38:32

Job Ticket #: 69780 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.07.26 @ 09:30:52



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69780 **DST#: 4**
Test Start: 2022.07.25 @ 16:12:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:17:52
Time Test Ended: 22:38:32
Interval: **3258.00 ft (KB) To 3300.00 ft (KB) (TVD)**
Total Depth: 3300.00 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: 1836.00 ft (KB)
1828.00 ft (CF)
KB to GR/CF: 8.00 ft

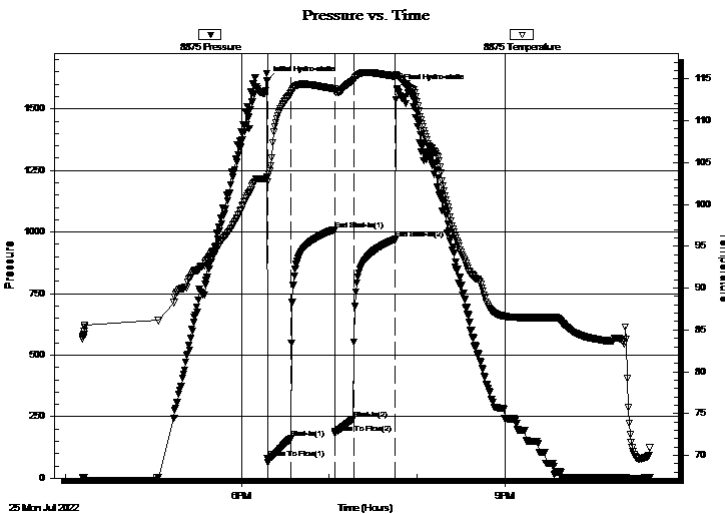
Serial #: 8875

Inside

Press@RunDepth: 239.09 psig @ 3263.00 ft (KB) Capacity: psig
Start Date: 2022.07.25 End Date: 2022.07.25 Last Calib.: 2022.07.25
Start Time: 16:12:01 End Time: 22:38:32 Time On Btm: 2022.07.25 @ 18:17:37
Time Off Btm: 2022.07.25 @ 19:45:57

TEST COMMENT: 15-IF-Slid 2' BOB in 3.5 mins Built to 54"
30-ISI-Surface to 2.5" Died back to Surface
10-FF-BOB 4 mins Built to 26"
30-FSI-Surface to 1" Died back to Surface

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1616.58	103.27	Initial Hydro-static
1	81.29	102.70	Open To Flow (1)
17	160.95	113.22	Shut-In(1)
46	1010.25	113.77	End Shut-In(1)
47	180.56	113.51	Open To Flow (2)
59	239.09	114.84	Shut-In(2)
88	970.31	115.30	End Shut-In(2)
89	1581.03	115.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	GHOCM 25%G 35%O 40%M	1.99
475.00	GO 20%G 80%O	6.73
0.00	570 GIP 100%G	0.00

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell, KS 67665+0352
 ATTN: Austin Klaus

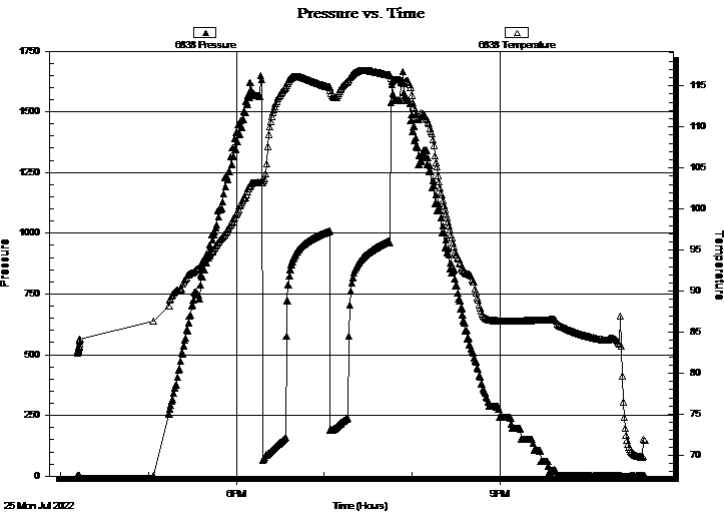
23-15s-13w Russell,KS
Berrick B #1
 Job Ticket: 69780 **DST#: 4**
 Test Start: 2022.07.25 @ 16:12:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:17:52
 Time Test Ended: 22:38:32
Interval: 3258.00 ft (KB) To 3300.00 ft (KB) (TVD)
 Total Depth: 3300.00 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: 1836.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6838 **Inside**
 Press@RunDepth: psig @ 3263.00 ft (KB) Capacity: psig
 Start Date: 2022.07.25 End Date: 2022.07.25 Last Calib.: 2022.07.25
 Start Time: 16:12:01 End Time: 22:38:32 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IF-Slid 2' BOB in 3.5 mins Built to 54"
 30-ISI-Surface to 2.5" Died back to Surface
 10-FF-BOB 4 mins Built to 26"
 30-FSI-Surface to 1" Died back to Surface



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
160.00	GHOCM 25%G 35%O 40%M	1.99
475.00	GO 20%G 80%O	6.73
0.00	570 GIP 100%G	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69780 **DST#: 4**
Test Start: 2022.07.25 @ 16:12:00

Tool Information

Drill Pipe:	Length: 3223.00 ft	Diameter: 3.82 inches	Volume: 45.69 bbl	Tool Weight:	2200.00 daN
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 daN
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	51000.00 daN
			<u>Total Volume:</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	45000.00 daN
Depth to Top Packer:	3258.00 ft			Final	49000.00 daN
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	69.00 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			3232.00	
Shut In Tool	5.00			3237.00	
Hydraulic tool	5.00			3242.00	
Gap Sub	4.00			3246.00	
Safety Joint	3.00			3249.00	
Packer	5.00			3254.00	27.00 Bottom Of Top Packer
Packer	4.00			3258.00	
Stubb	1.00			3259.00	
Perforations	3.00			3262.00	
Change Over Sub	1.00			3263.00	
Recorder	0.00	6838	Inside	3263.00	
Recorder	0.00	8875	Inside	3263.00	
Drill Pipe	32.00			3295.00	
Change Over Sub	1.00			3296.00	
Perforations	1.00			3297.00	
Bullnose	3.00			3300.00	42.00 Bottom Packers & Anchor
Total Tool Length:	69.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc
PO Box 352
Russell, KS 67665+0352
ATTN: Austin Klaus

23-15s-13w Russell,KS
Berrick B #1
Job Ticket: 69780 **DST#: 4**
Test Start: 2022.07.25 @ 16:12:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl	
Water Loss: 10.58 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 8500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

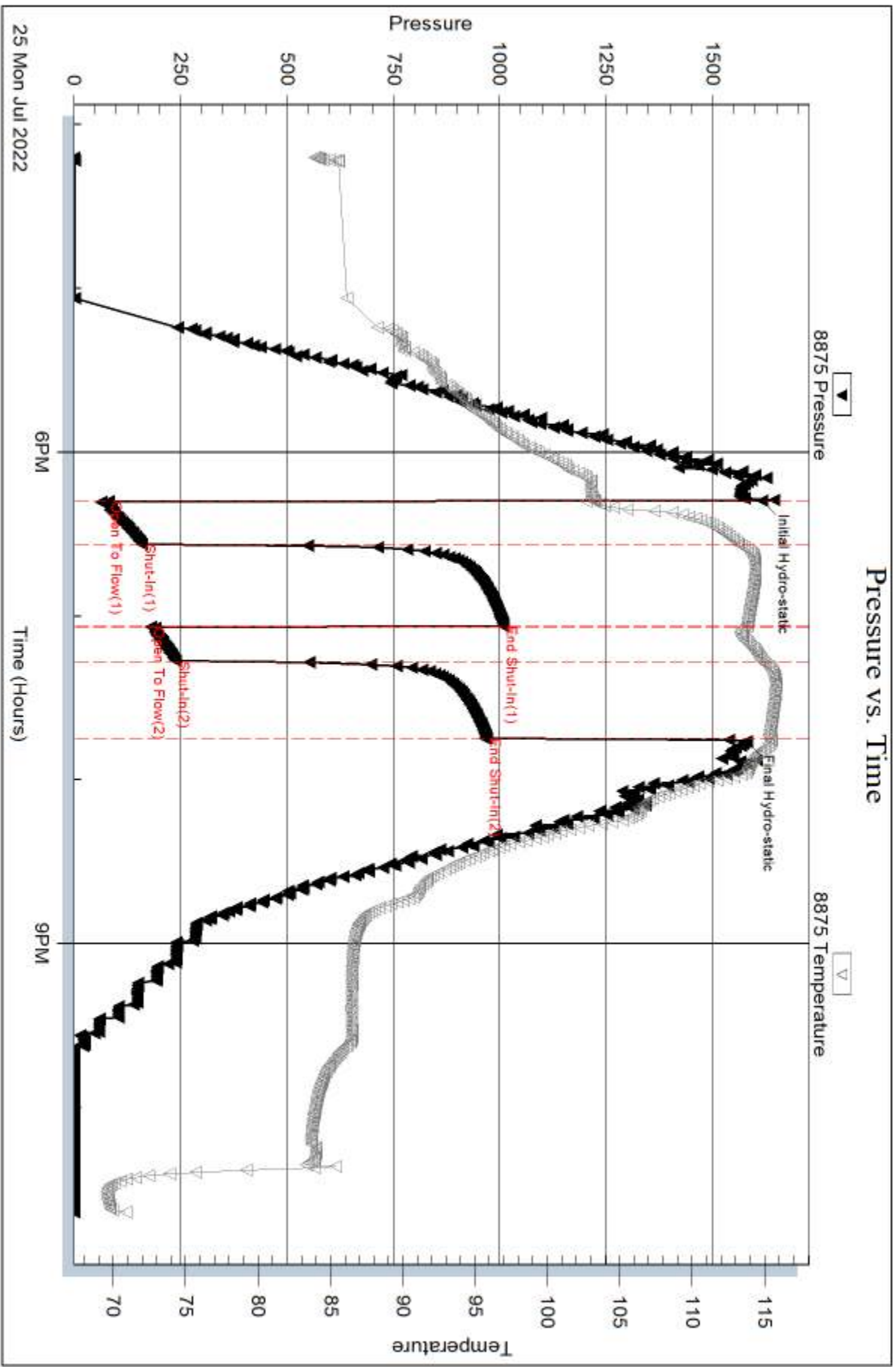
Length ft	Description	Volume bbl
160.00	GHOCM 25%G 35%O 40%M	1.990
475.00	GO 20%G 80%O	6.733
0.00	570 GIP 100%G	0.000

Total Length: 635.00 ft Total Volume: 8.723 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 1.5#LCM



25 Mon Jul 2022

6PM

Time (Hours)

9PM

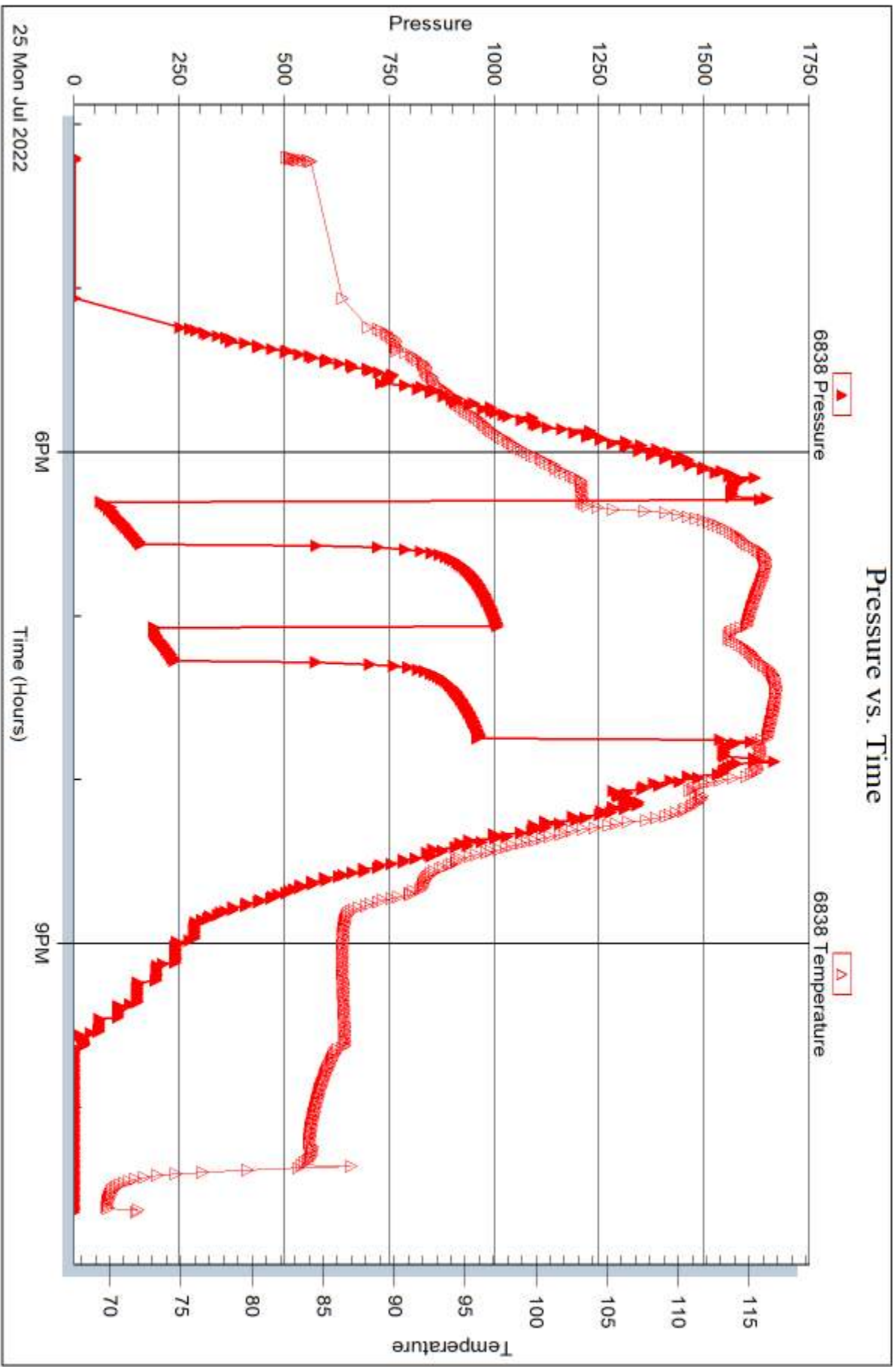
Serial #: 6838

Inside

John O Farmer Inc

Berrick B #1

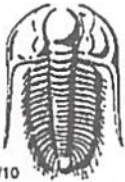
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 69780

Printed: 2022.07.26 @ 09:30:53



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69777**

Well Name & No. Berrick B #1 Test No. 1 Date 07/23/2022
 Company Farmer, John O, Inc Elevation 1836 KB 1828 GL
 Address 370 W. Wichita Ave PO BOX 352 Russell KS 67665-0352
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 23 Twp 15S Rge. 13W Co. Russell State KS

Interval Tested 3014' - 3060' Zone Tested LHC A-C
 Anchor Length 46' Drill Pipe Run 2970' Mud Wt. 9.4
 Top Packer Depth 3009' Drill Collars Run 30' Vis 50
 Bottom Packer Depth 3014' Wt. Pipe Run - WL 8.8
 Total Depth 3060' Chlorides 4000 ppm System LCM 1/2#

Blow Description D7 - Surface to 1/4"
DSD - No Return
77 - Surface to 4"
7SD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
50	GVSOCM	10	2	88	
	100' GFP	100			

Rec Total 50' BHT 108° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1525 Test 1800 T-On Location 11:26
 (B) First Initial Flow 22 Jars - T-Started 12:58
 (C) First Final Flow 26 Safety Joint - T-Open 14:35
 (D) Initial Shut-In 301 Circ Sub - T-Pulled 17:35
 (E) Second Initial Flow 28 Hourly Standby - T-Out 19:31
 (F) Second Final Flow 31 Mileage 8027 120 Comments -
 (G) Final Shut-In 952 Sampler -
 (H) Final Hydrostatic 1469 Straddle - EM Tool -
 Shale Packer - Ruined Shale Packer -
 Extra Packer - Ruined Packer -
 Extra Recorder - Extra Copies -
 Day Standby - Sub Total 0
 Accessibility - Total 1920
 Sub Total 1920 MP/DST Disc't -

Approved By _____ Our Representative Farmer, John O
 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.

785-259-0036



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69778**

Well Name & No. Berrick B#1 Test No. 2 Date 07/24/2022
 Company Farmer, John O., Inc Elevation 1836 KB 1828 GL
 Address 370 W. Wichita Ave PO BOX 352 Russell KS 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2 #0352
 Location: Sec. 23 Twp 15S Rge. 13W Co. Russell State KS

Interval Tested 3058' - 3120' Zone Tested LHC E-J
 Anchor Length 62' Drill Pipe Run 3031' Mud Wt. 9.4
 Top Packer Depth 3053' Drill Collars Run 30 Vls 50
 Bottom Packer Depth 3058' Wt. Pipe Run - WL 8.8
 Total Depth 3120' Chlorides 4000 ppm System LCM 1 1/2#

Blow Description 17-Surface to 10"
15' Weak Surface
77-BOB 50 mins; Built to 12 1/2"
75' Surface to 1"; Died back to Surface

Rec	Feet of	%gas	%oil	%water	%mud
<u>150'</u>	<u>MW</u>		<u>90</u>	<u>10</u>	
<u>60'</u>	<u>SOCWM</u>	<u>5</u>	<u>15</u>	<u>80</u>	
<u>60'</u>	<u>GHOCM</u>	<u>20</u>	<u>30</u>	<u>50</u>	
<u>300'</u>	<u>GIP</u>	<u>100</u>			

Rec Total 270' BHT 110° Gravity - API RW .136 @ 75 ° F Chlorides 53000 ppm

(A) Initial Hydrostatic 1552 Test 1800 T-On Location 03/07
 (B) First Initial Flow 28 Jars _____ T-Started 04:15
 (C) First Final Flow 75 Safety Joint _____ T-Open 06:11
 (D) Initial Shut-In 963 Circ Sub _____ T-Pulled 09:11
 (E) Second Initial Flow 81 Hourly Standby _____ T-Out 10:57
 (F) Second Final Flow 149 Mileage 80RM 120 Comments _____
 (G) Final Shut-In 961 Sampler _____
 (H) Final Hydrostatic 1492 Straddle _____ EM Tool _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Extra Copies _____
 Final Shut-In 60 Day Standby _____ Sub Total 0
 Sub Total 1920 Accessibility _____ Total 1920
 MP/DST Disc't _____

Approved By _____ Our Representative Farmer, John O. Thanks!

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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69779**

Well Name & No. Berrick B #1 Test No. 3 Date 07/25/2022
 Company Farmer, John O., Inc. Elevation 1836 KB 1828 GL
 Address 370 W. Wichita Ave. PO BOX 352 Russell Ks 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery #2 #0352
 Location: Sec. 23 Twp 15s Rge. 13w Co. Russell State Ks

Interval Tested 3140'-3245' Zone Tested LHC A-K
 Anchor Length 105' Drill Pipe Run 3097' Mud Wt. 9.3
 Top Packer Depth 3135' Drill Collars Run 30 Vis 59
 Bottom Packer Depth 3140' Wt. Pipe Run - WL 8.8
 Total Depth 3245' Chlorides 5500 ppm System LCM 1.5#

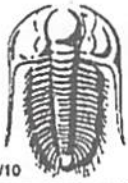
Blow Description 17'-Surface to 1/2"
J.S. No Return
17'-Surface to 1/2"
J.S. No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20'</u>	<u>OSM</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 Total 20' BHT 108° Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1622</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>00:58</u>
(B) First Initial Flow <u>25</u>	<input type="checkbox"/> Jars	T-Started <u>01:53</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>03:58</u>
(D) Initial Shut-In <u>85</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>05:58</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>07:59</u>
(F) Second Final Flow <u>30</u>	<input checked="" type="checkbox"/> Mileage <u>8027</u> 120	Comments
(G) Final Shut-In <u>65</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1540</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1920</u>
	Sub Total <u>1920</u>	MP/DST Disc't

Approved By _____ Our Representative Spencer J. Paul
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **69780**

Well Name & No. Berrick B #1 Test No. 4 Date 07/25/2022
 Company Farmer, John O., Inc Elevation 1836 KB 1828 GL
 Address 370 W. Wichita Ave. PO BOX 352 Russell KS 67665-0352
 Co. Rep / Geo. Austin Klaus Rig Discovery #2
 Location: Sec. 23 Twp 15A Rge. 13w Co. Russell State KS

Interval Tested 3258' - 3300' Zone Tested Arbuckle
 Anchor Length 42' Drill Pipe Run 3223' Mud Wt. 9.4
 Top Packer Depth 3253' Drill Collars Run 30' Vis 45
 Bottom Packer Depth 3258' Wt. Pipe Run - WL 10.6
 Total Depth 3300' Chlorides 8500 ppm System LCM 1.5#

Blow Description D7-BOB 3.5 mins; Built to 54" Slid 2'
ISD - Surface to 2.5"; Died back to Surface
77-BOB 4 mins; Built to 26"

Rec	Feet of	%gas	%oil	%water	%mud
<u>160'</u>	<u>G/HOCM</u>	<u>25</u>	<u>35</u>	<u>40</u>	
<u>475'</u>	<u>GO</u>	<u>20</u>	<u>80</u>		
	<u>570' G.I.P</u>	<u>100</u>			

Rec Total 635' BHT 115° Gravity 40° API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1616</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>15:32</u>
(B) First Initial Flow <u>81</u>	<input type="checkbox"/> Jars	T-Started <u>16:12</u>
(C) First Final Flow <u>160</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>18:16</u>
(D) Initial Shut-In <u>1010</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>19:41</u>
(E) Second Initial Flow <u>180</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:36</u>
(F) Second Final Flow <u>239</u>	<input checked="" type="checkbox"/> Mileage <u>8027</u> 120	Comments <u>Loaded after test</u>
(G) Final Shut-In <u>970</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1581</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool

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

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Ruined Shale Packer
 Ruined Packer
 Extra Copies

Sub Total 0
 Total 1920
 Sub Total 1920 MP/DST Disc't

Approved By _____ Our Representative Spencer J. Stahl

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.

785-259-0056