KOLAR Document ID: 1676003

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 # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2:
City: DENVER State: CO Zip: 80202 + 2062
Contact Person: STEPHANIE DECKER
Phone: (303) 831-4673
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: JAMES MUSGROVE
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 #:

11/07/2022	11/17/2022	11/18/2022
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-093-22004-00-00
Spot Description:
SE - NW - NE - NE Sec. 5 Twp. 21 S. R. 38 ☐ East ☑ West
335 Feet from ☑ North / ☐ South Line of Section
842 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Kearny
Lease Name: HOFBRAUHAUS Well #: 1B-5-2138
Field Name:
Producing Formation: N/A
Elevation: Ground: 3410 Kelly Bushing: 3423
Total Vertical Depth: 5200 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 316 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: 18000 ppm Fluid volume: 90 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: K & L TANK TRUCK SERVICE
Lease Name: WILES License #: 8757
Quarter NE Sec. 27 Twp. 25 S. R. 33 ☐ East ☑ West
County: FINNEY Permit #: D26442.0

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: 02/27/2023
☐ **Confidential Release Date:** 02/26/2025
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** David Befort **Date:** 02/27/2023

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: HOFBRAUHAUS Well #: 1B-5-2138

Sec. 5 Twp. 21 S. R. 38 ☐ East ☑ West County: Kearny

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
TOPEKA	3627	-204
HEEBNER	3893	-470

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	316	CLASS A	180	1% SMS, 2% CC, 1/4# CELL FLAKE

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HOFBRAUHAUS 1B-5-2138
Doc ID	1676003

All Electric Logs Run

DENSITY-NEUTRON
INDUCTION
MICRO
SONIC

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	HOFBRAUHAUS 1B-5-2138
Doc ID	1676003

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	316	CLASS A	180	1% SMS, 2% CC, 1/4# CELL FLAKE

DRILL STEM TEST REPORT

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

5-21S-38W Kearny

HofBrauhaus1B-5-2138

Job Ticket: 69571 **DST#: 1**

Test Start: 2022.11.15 @ 04:00:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:08:02
Time Test Ended: 13:12:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 72

Interval: 4750.00 ft (KB) To 4820.00 ft (KB) (TVD)
Total Depth: 4820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

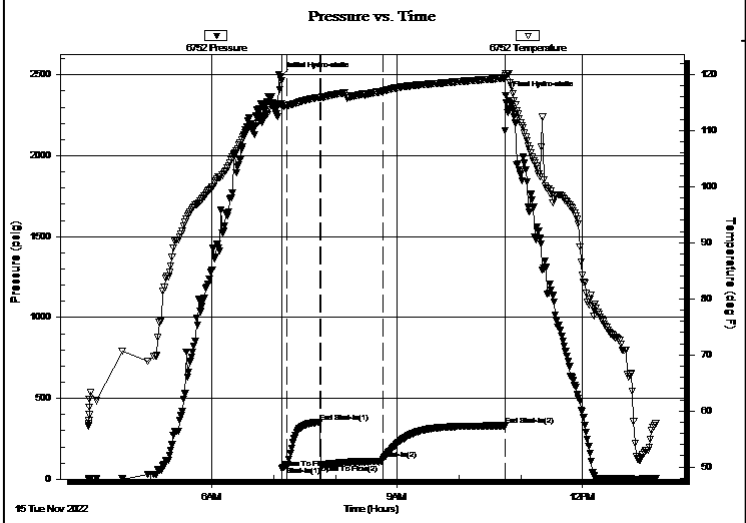
Reference Elevations: 3424.00 ft (KB)
3411.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 124.86 psig @ 4793.00 ft (KB)
Start Date: 2022.11.15 End Date: 2022.11.15
Start Time: 04:00:01 End Time: 13:12:02

Capacity: psig
Last Calib.: 2022.11.15
Time On Btm: 2022.11.15 @ 07:06:47
Time Off Btm: 2022.11.15 @ 10:45:17

TEST COMMENT: IF: Weakl Surface Blow , Dead @ 5 minutes
ISI: No Blow Back
FF: Weak Blow , Built to 1.17"
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2490.32	114.81	Initial Hydro-static
2	68.50	114.44	Open To Flow (1)
7	82.05	114.44	Shut-In(1)
38	350.97	115.92	End Shut-In(1)
39	90.83	115.92	Open To Flow (2)
100	124.86	117.07	Shut-In(2)
218	331.18	119.34	End Shut-In(2)
219	2370.92	120.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180' GIP	0.00
60.00	WOCM 10%W 10%O 80%M	0.30
60.00	GWOCM 10%G 20%W 20%O 50%M	0.30
70.00	GOCM 10%G 6%O 84%M	0.45

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

5-21S-38W Kearny

HofBrauhaus1B-5-2138

Job Ticket: 69571 **DST#: 1**

Test Start: 2022.11.15 @ 04:00:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:08:02
Time Test Ended: 13:12:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 72

Interval: 4750.00 ft (KB) To 4820.00 ft (KB) (TVD)
Total Depth: 4820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

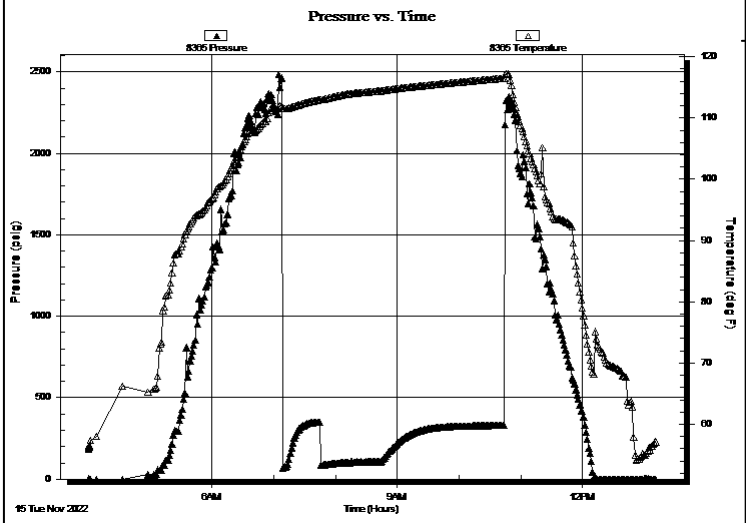
Reference Elevations: 3424.00 ft (KB)
3411.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8365 **Outside**

Press@RunDepth: psig @ 4793.00 ft (KB)
Start Date: 2022.11.15 End Date: 2022.11.15
Start Time: 04:00:01 End Time: 13:12:02

Capacity: psig
Last Calib.: 2022.11.15
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weakl Surface Blow , Dead @ 5 minutes
ISI: No Blow Back
FF: Weak Blow , Built to 1.17"
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	180' GIP	0.00
60.00	WOCM 10%W 10%O 80%M	0.30
60.00	GWOCM 10%G 20%W 20%O 50%M	0.30
70.00	GOCM 10%G 6%O 84%M	0.45

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

5-21S-38W Kearny

HofBrauhaus1B-5-2138

Job Ticket: 69571 **DST#: 1**

Test Start: 2022.11.15 @ 04:00:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3800.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

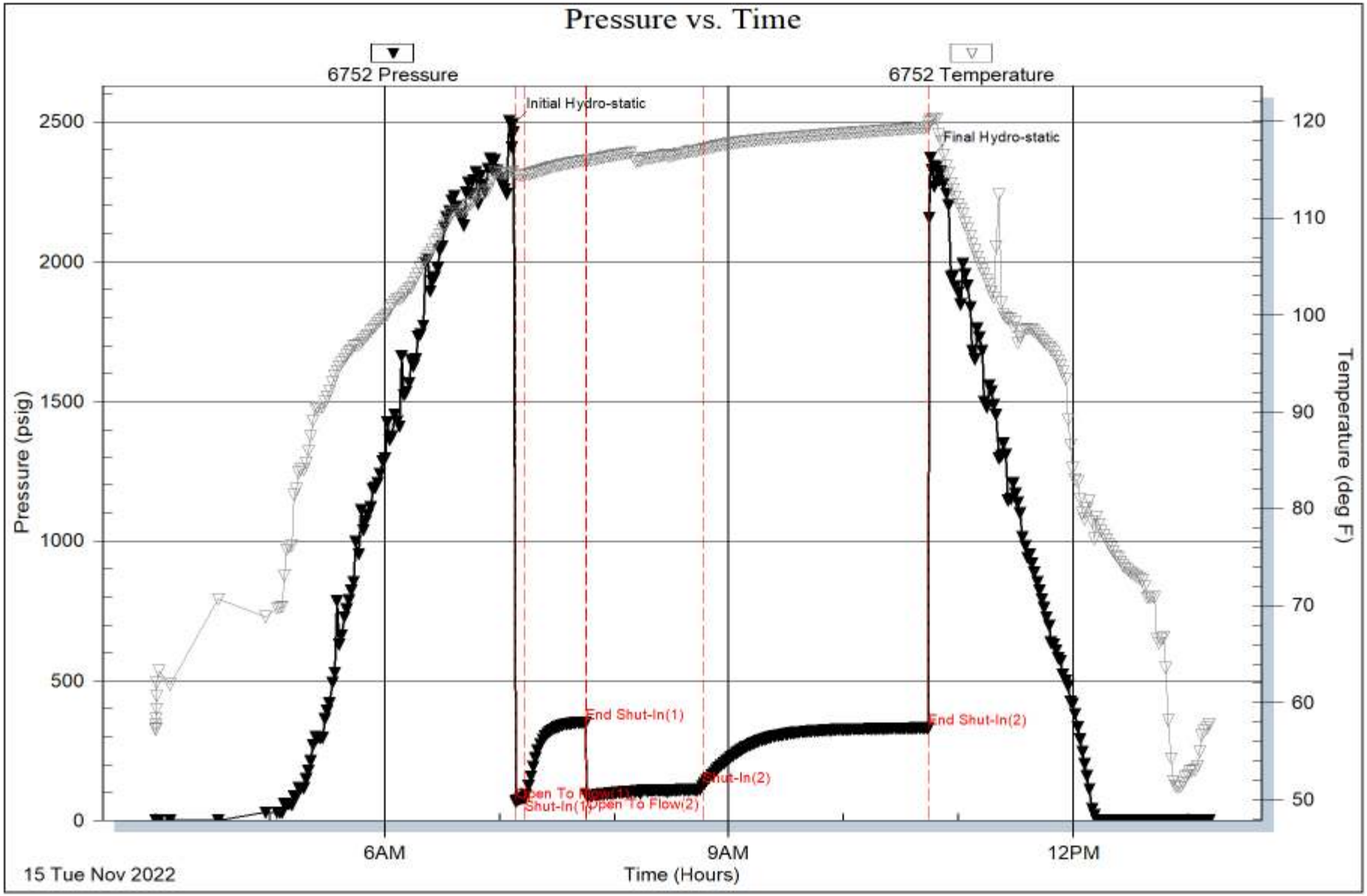
Recovery Table

Length ft	Description	Volume bbl
0.00	180' GIP	0.000
60.00	WOCM 10%W 10%O 80%M	0.295
60.00	GWOCM 10%G 20%W 20%O 50%M	0.295
70.00	GOCM 10%G 6%O 84%M	0.454

Total Length: 190.00 ft Total Volume: 1.044 bbl

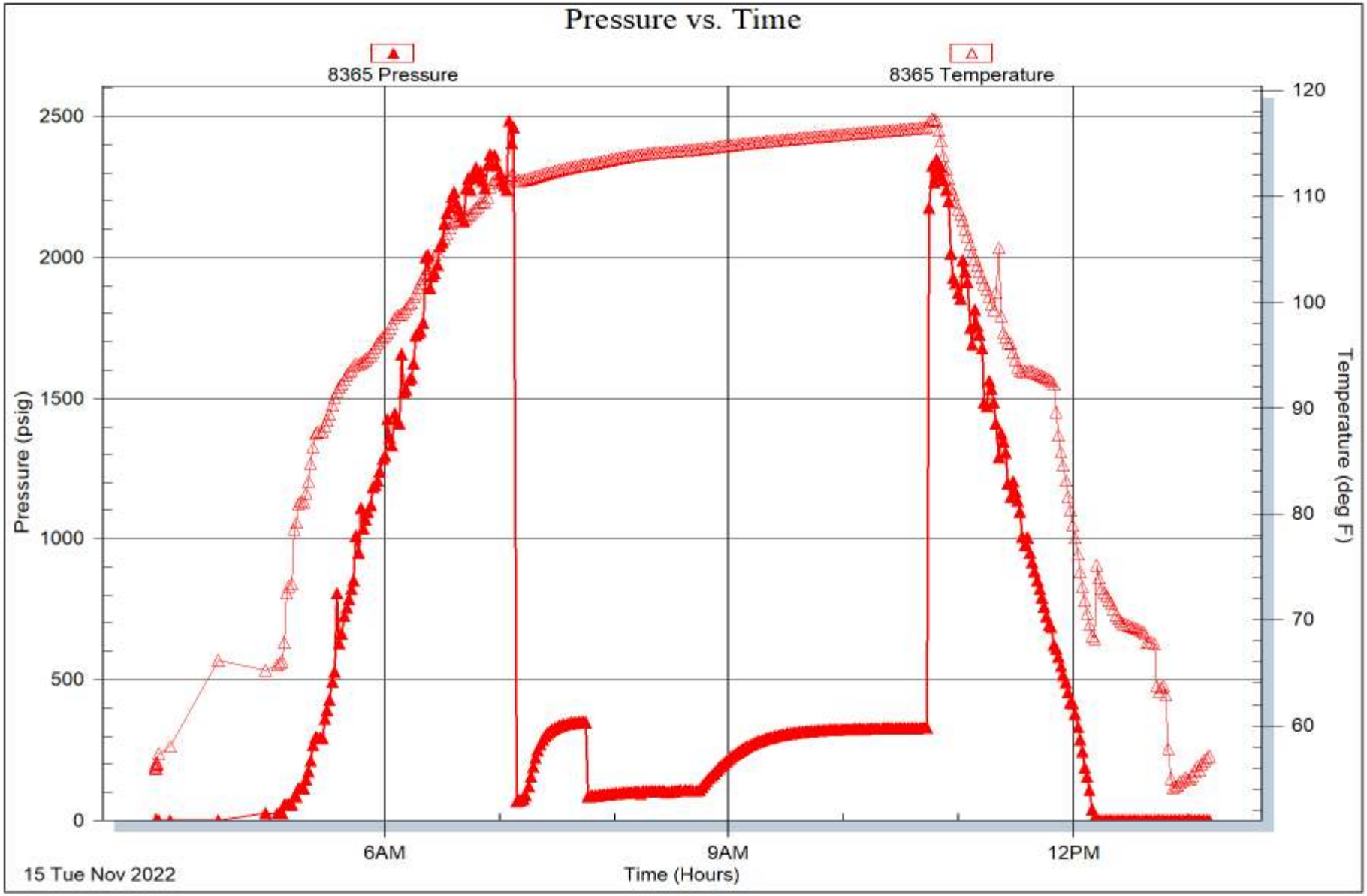
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6752 **Inside** Sam Gary JR & Associates HofBrauhaus1B-5-2138 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69571 Printed: 2022.11.15 @ 15:43:59

Serial #: 8365 **Outside** Sam Gary JR & Associates HofBrauhaus1B-5-2138 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 69571 Printed: 2022.11.15 @ 15:43:59

DRILL STEM TEST REPORT

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

Hofbrauhaus #1B-5-2138

5-21S-38W Kearny,KS

Job Ticket: 69572 **DST#: 2**

Test Start: 2022.11.15 @ 23:28:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:18:47
Time Test Ended: 06:14:02

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 72

Interval: 4822.00 ft (KB) To 4871.00 ft (KB) (TVD)
Total Depth: 4871.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

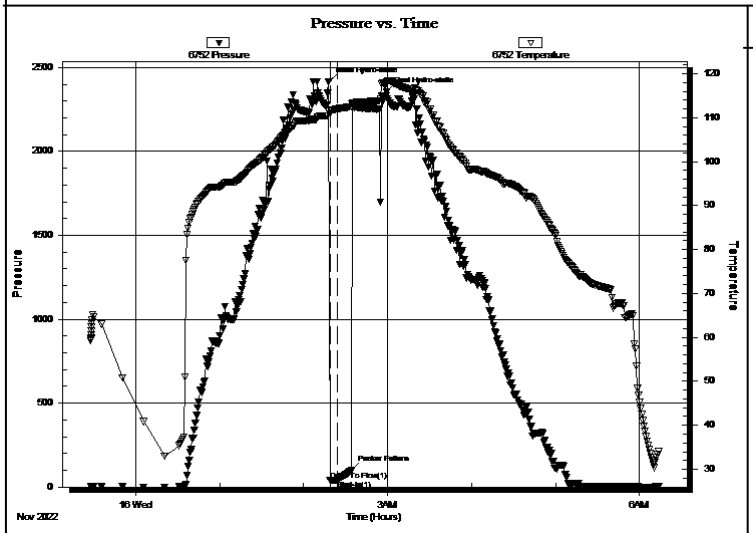
Reference Elevations: 3424.00 ft (KB)
3411.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: psig @ 4864.00 ft (KB)
Start Date: 2022.11.15 End Date: 2022.11.16
Start Time: 23:28:01 End Time: 06:14:02

Capacity: psig
Last Calib.: 2022.11.16
Time On Btm: 2022.11.16 @ 02:18:02
Time Off Btm: 2022.11.16 @ 02:59:02

TEST COMMENT: IF: Weak Surface Blow , Dead @ 5 minutes
ISI: No Blow Back
FF: Packer Failure, Tried To Reset, Failed, Pulled Test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2414.68	111.52	Initial Hydro-static
1	39.68	110.84	Open To Flow (1)
6	41.83	112.02	Shut-In(1)
17	98.50	112.54	Packer Failure
41	2353.34	117.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
364.00	Mud	3.48

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

Hofbrauhaus #1B-5-2138

5-21S-38W Kearny,KS

Job Ticket: 69572 **DST#: 2**

Test Start: 2022.11.15 @ 23:28:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:18:47
Time Test Ended: 06:14:02

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 72

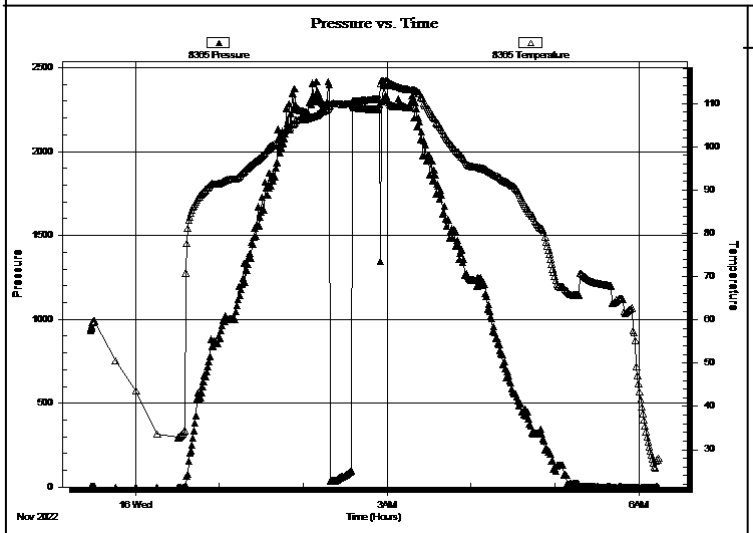
Interval: 4822.00 ft (KB) To 4871.00 ft (KB) (TVD)
Total Depth: 4871.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3424.00 ft (KB)
3411.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8365 **Outside**
Press@RunDepth: psig @ 4864.00 ft (KB)
Start Date: 2022.11.15 End Date: 2022.11.16
Start Time: 23:28:01 End Time: 06:14:02

Capacity: psig
Last Calib.: 2022.11.16
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Surface Blow , Dead @ 5 minutes
ISI: No Blow Back
FF: Packer Failure, Tried To Reset, Failed, Pulled Test



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
364.00	Mud	3.48

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

Hofbrauhaus #1B-5-2138

5-21S-38W Kearny,KS

Job Ticket: 69572 **DST#: 2**

Test Start: 2022.11.15 @ 23:28:00

Tool Information

Drill Pipe:	Length:	4644.00 ft	Diameter:	3.80 inches	Volume:	65.14 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	178.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	
					Total Volume:	66.02 bbl	

Drill Pipe Above KB:	29.00 ft
Depth to Top Packer:	4822.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	49.00 ft
Tool Length:	78.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2100.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		75000.00 lb
Tool Chased		ft
String Weight:	Initial	65000.00 lb
	Final	70000.00 lb

Tool Comments: Shale Packer on Bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4798.00		
Hydraulic tool	5.00			4803.00		
Jars	5.00			4808.00		
EM Tool	3.00			4811.00		
Safety Joint	2.00			4813.00		
Packer	5.00			4818.00	29.00	Bottom Of Top Packer
Packer	4.00			4822.00		
Stubb	1.00			4823.00		
Perforations	3.00			4826.00		
Change Over Sub	1.00			4827.00		
Drill Pipe	31.00			4858.00		
Change Over Sub	1.00			4859.00		
Handling Sub	5.00			4864.00		
Recorder	0.00	6752	Inside	4864.00		
Recorder	0.00	8365	Outside	4864.00		
perforations	4.00			4868.00		
Bullnose	3.00			4871.00	49.00	Bottom Packers & Anchor
Total Tool Length:	**78.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

Hofbrauhaus #1B-5-2138

5-21S-38W Kearny,KS

Job Ticket: 69572 **DST#: 2**

Test Start: 2022.11.15 @ 23:28:00

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4100.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

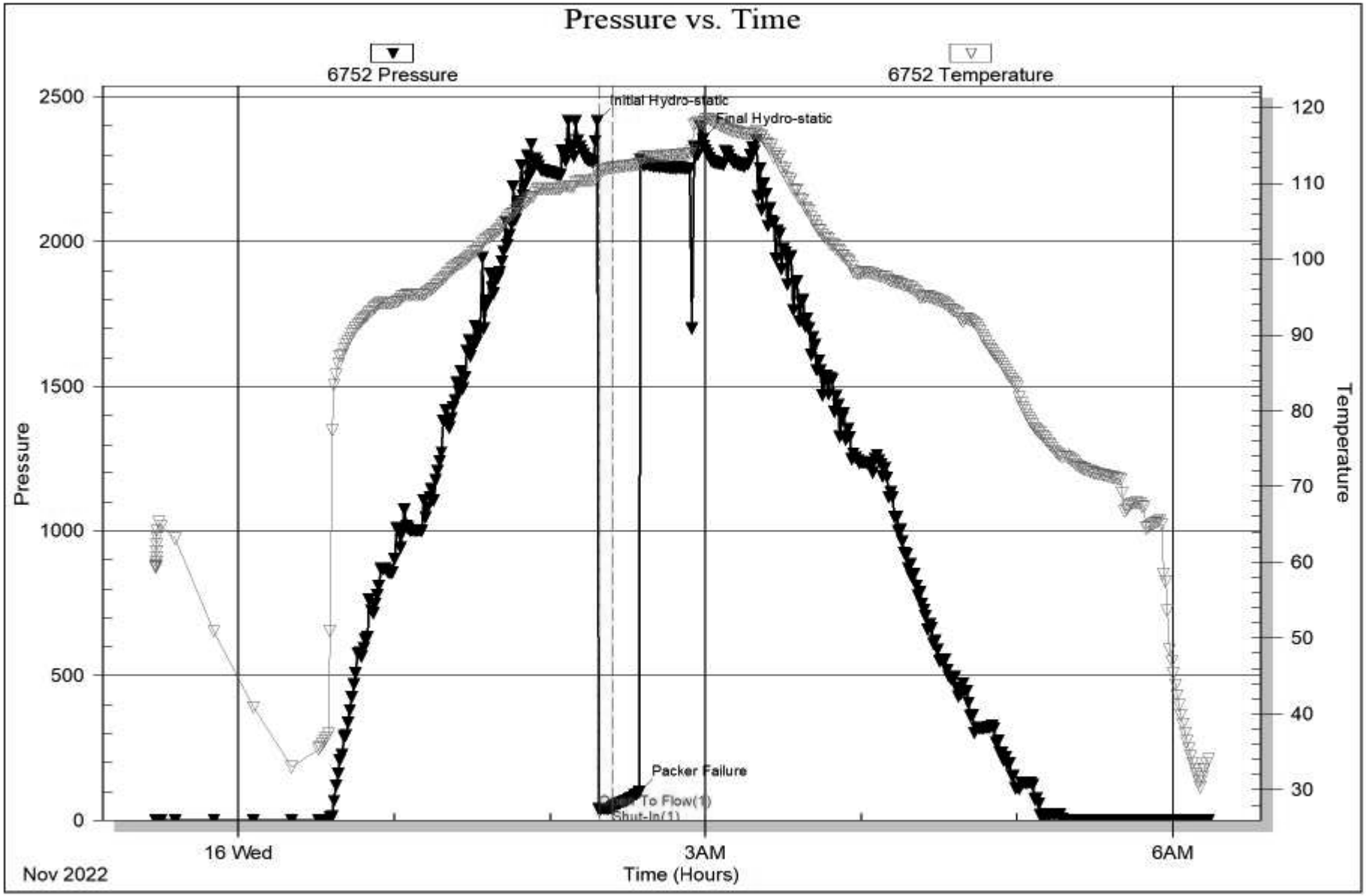
Recovery Table

Length ft	Description	Volume bbl
364.00	Mud	3.484

Total Length: 364.00 ft Total Volume: 3.484 bbl

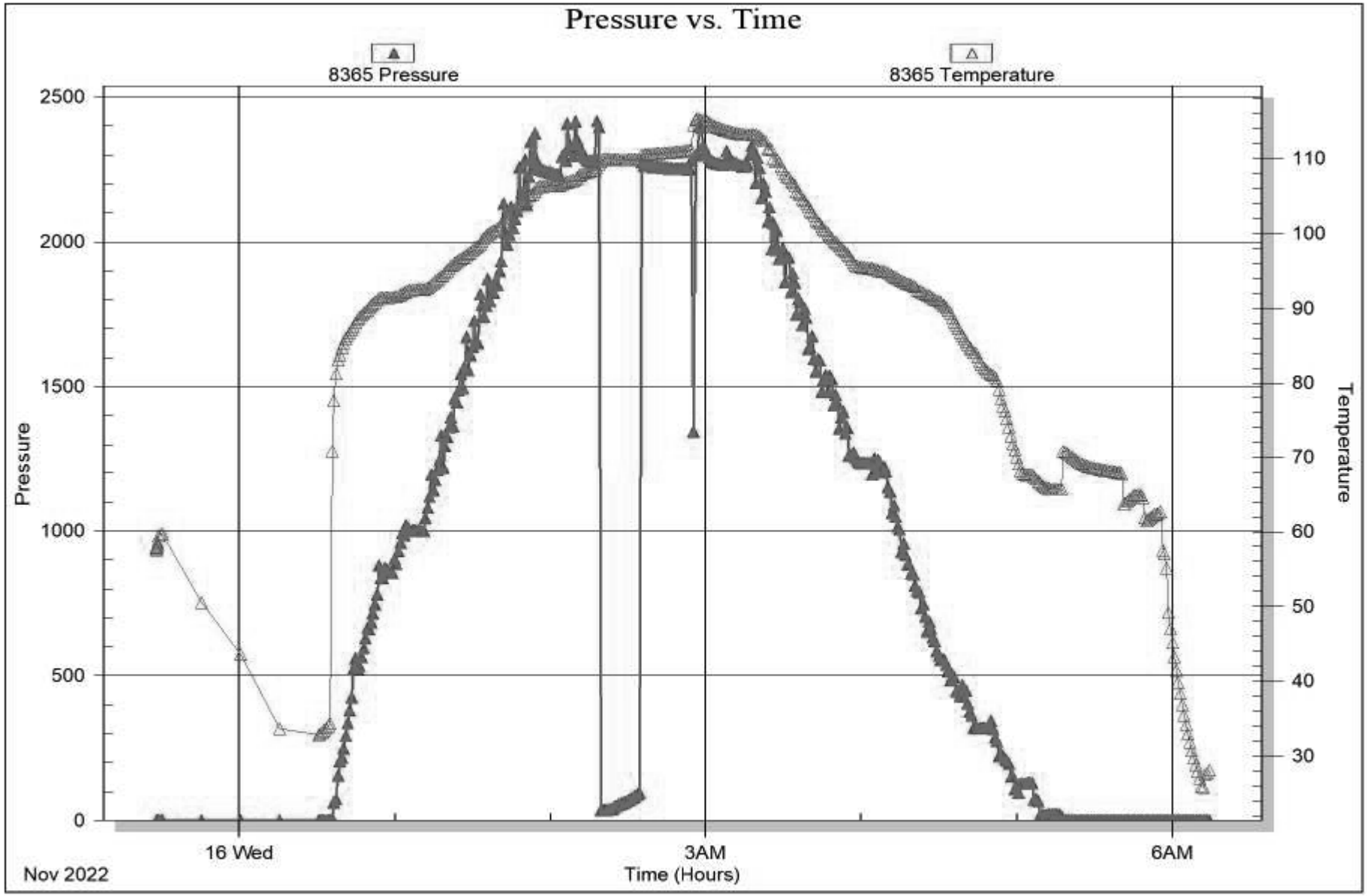
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6752 **Inside** Sam Gary JR & Associates 5-21S-38W Kearny,KS DST Test Number: 2



Trilobite Testing, Inc Ref. No: 69572 Printed: 2022.11.17 @ 10:45:36

Serial #: 8365 **Outside** Sam Gary JR & Associates 5-21S-38W Kearny,KS DST Test Number: 2



Trilobite Testing, Inc Ref. No: 69572 Printed: 2022.11.17 @ 10:45:37

DRILL STEM TEST REPORT

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

5-21S-38W Kearny

HofBrauhaus1B-5-2138

Job Ticket: 69573 **DST#: 3**

Test Start: 2022.11.16 @ 07:30:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:32:17
Time Test Ended: 14:20:02

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 72

Interval: 4841.00 ft (KB) To 4871.00 ft (KB) (TVD)
Total Depth: 4871.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

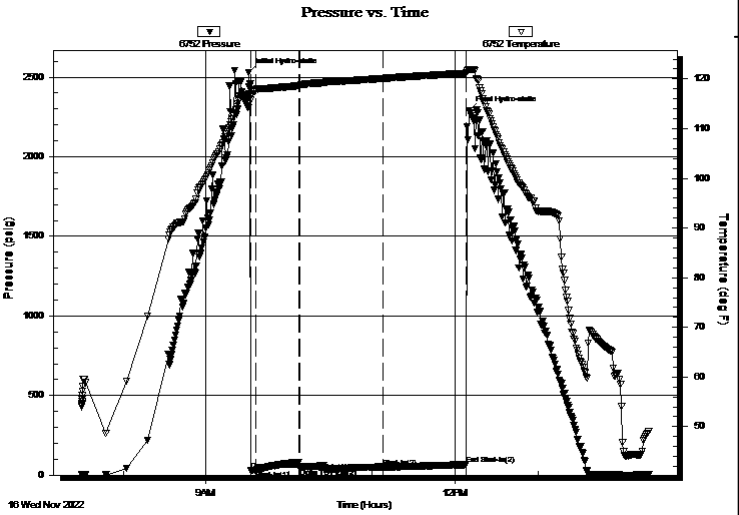
Reference Elevations: 3424.00 ft (KB)
3411.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 49.08 psig @ 4847.00 ft (KB)
Start Date: 2022.11.16 End Date: 2022.11.16
Start Time: 07:30:01 End Time: 14:20:02

Capacity: psig
Last Calib.: 2022.11.16
Time On Btm: 2022.11.16 @ 09:30:47
Time Off Btm: 2022.11.16 @ 12:10:02

TEST COMMENT: IF: Weak Surface Blow
ISI: No Blow Back
FF: No Blow
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2528.76	117.01	Initial Hydro-static
2	27.73	115.76	Open To Flow (1)
6	29.64	117.86	Shut-In(1)
37	82.66	118.68	End Shut-In(1)
37	44.47	118.70	Open To Flow (2)
98	49.08	120.12	Shut-In(2)
158	65.91	121.19	End Shut-In(2)
160	2288.55	121.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SGCM 2%G 98%M	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

5-21S-38W Kearny

HofBrauhaus1B-5-2138

Job Ticket: 69573 **DST#: 3**

Test Start: 2022.11.16 @ 07:30:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:32:17
Time Test Ended: 14:20:02

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 72

Interval: 4841.00 ft (KB) To 4871.00 ft (KB) (TVD)
Total Depth: 4871.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

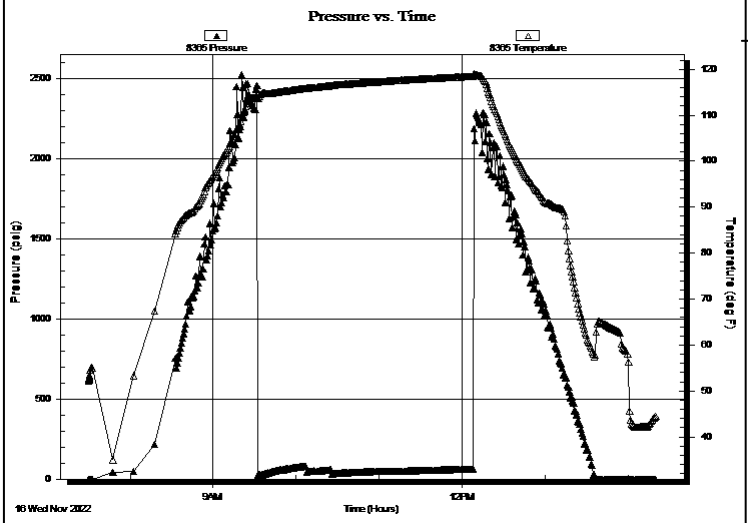
Reference Elevations: 3424.00 ft (KB)
3411.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8365 **Outside**

Press@RunDepth: psig @ 4847.00 ft (KB)
Start Date: 2022.11.16 End Date: 2022.11.16
Start Time: 07:30:01 End Time: 14:20:02

Capacity: psig
Last Calib.: 2022.11.16
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Surface Blow
ISI: No Blow Back
FF: No Blow
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SGCM 2%G 98%M	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary JR & Associates

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Jim Musgrove

5-21S-38W Kearny

HofBrauhaus1B-5-2138

Job Ticket: 69573 **DST#: 3**

Test Start: 2022.11.16 @ 07:30:00

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4100.00 ppm				
Filter Cake:	0.02 inches				

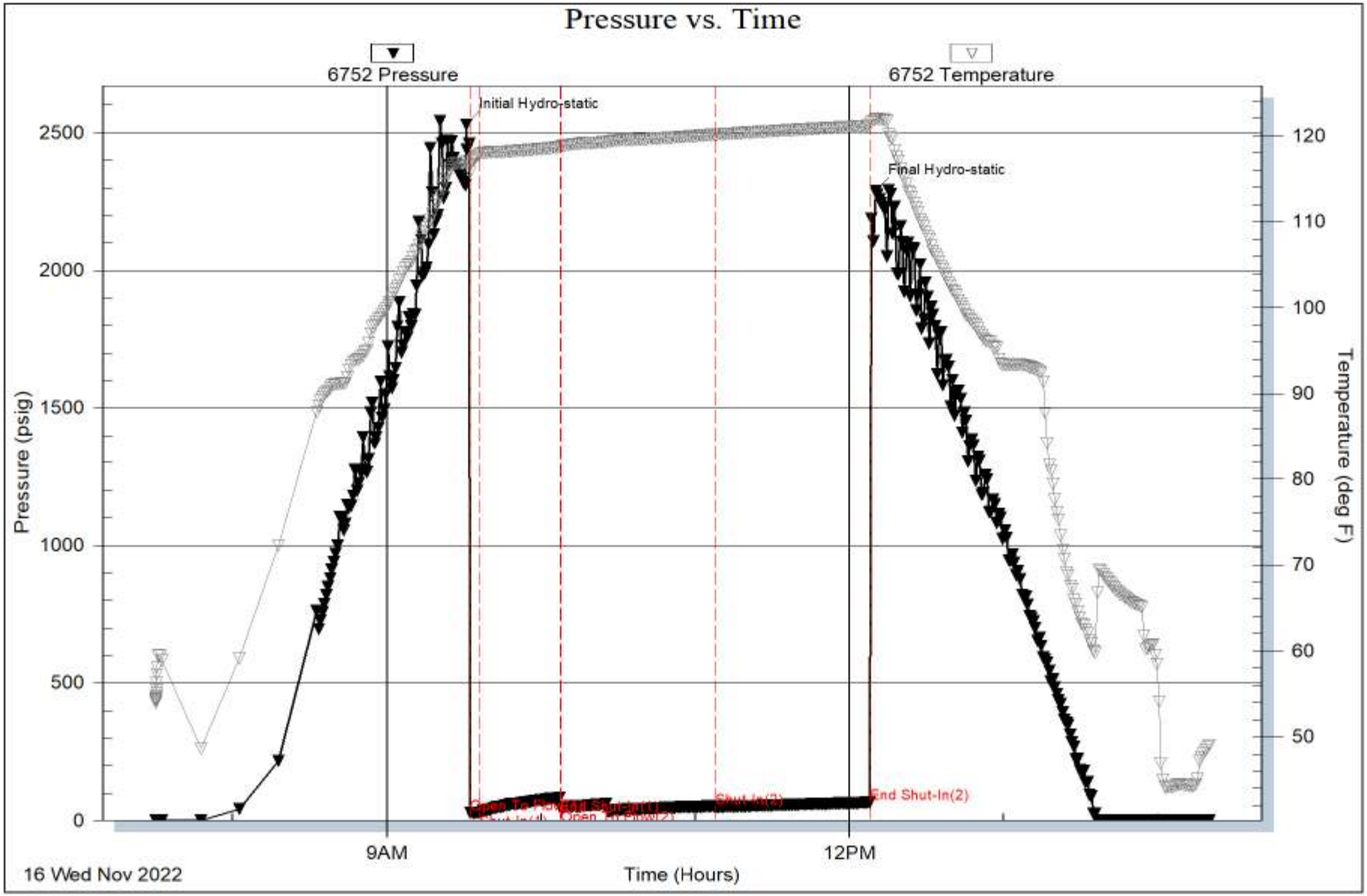
Recovery Information

Recovery Table

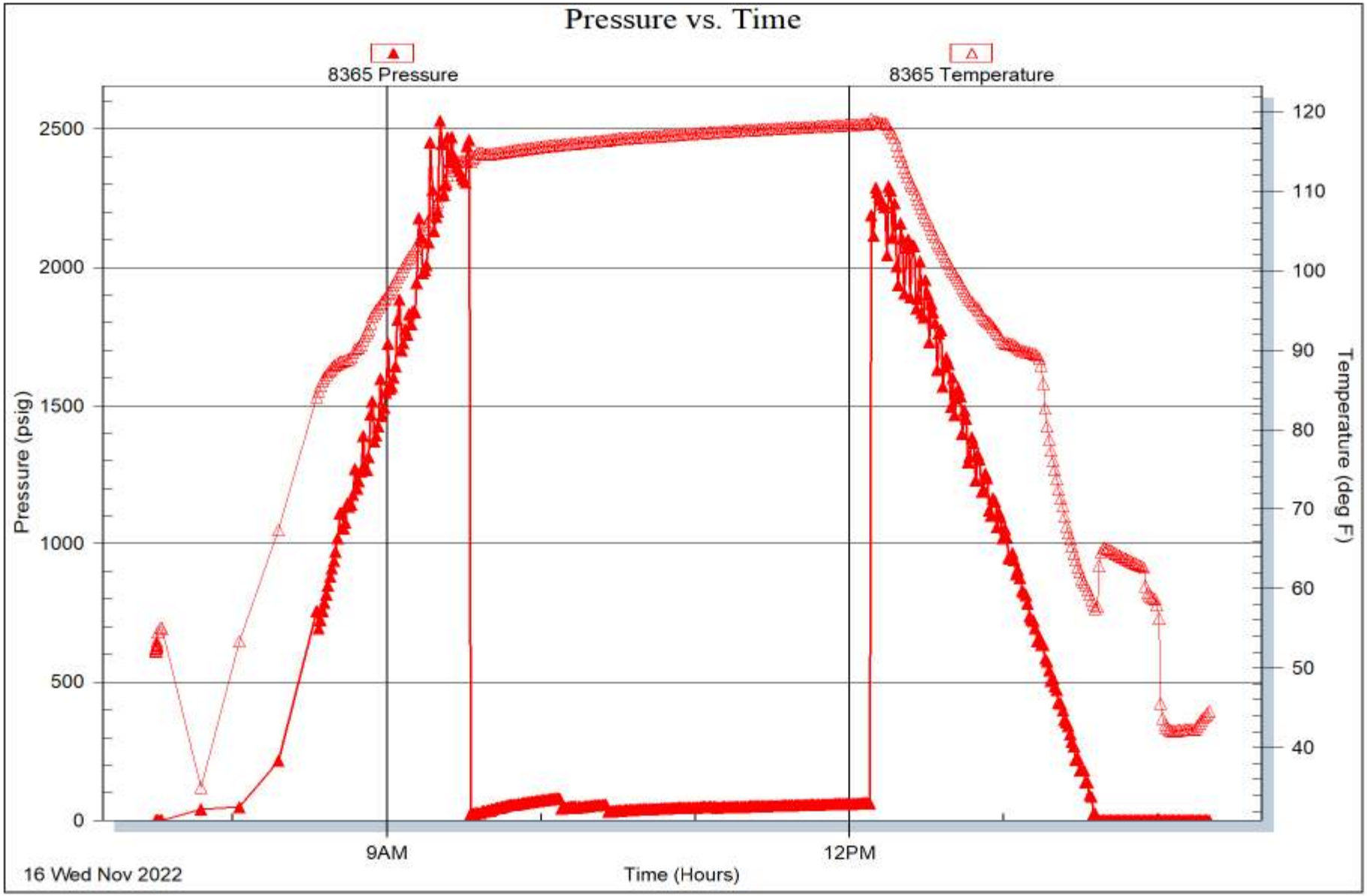
Length ft	Description	Volume bbl
5.00	SGCM 2%G 98%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6752 Pressure
6752 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(2)
Pressure (psig)
Temperature (deg F)
2500
2000
1500
1000
500
0
120
110
100
90
80
70
60
50
9AM
12PM
16 Wed Nov 2022
Time (Hours)

Serial #: 8365 **Outside** Sam Gary JR & Associates HofBrauhaus1B-5-2138 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 69573 Printed: 2022.11.16 @ 14:29:57

JAMES C. MUSGROVE
Petroleum Geologist, LLC
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 786-0839

Samuel Gary Jr. & Associates, Inc.
Hofbrauhaus #1B-5-2138
SE-NW-NE-NE (335' FNL & 842' FEL)
Section 5-21s-38w
Kearney County, Kansas

Dry and Abandoned

Contractor: Duke Drilling (Rig #9)

Commenced: November 7, 2022

Completed: November 18, 2022

Elevation: 3423' K.B., 3421' D.F., 3410' G.L.

Casing program: Surface; 8 5/8" @ 318'
Production, 5 ½" @ None

Sample: Samples saved and examined 2500' to the Rotary Total Depth.

Drilling time: One (1) foot drilling time recorded and kept 2500' to the Rotary Total Depth.

Measurements: All depths measured from the Kelly Bushing.

Drill Stem Tests: Three (3) by Trilobite Testing Co.

Electric Log: By Eli; Dual Induction; Compensated Density/Neutron PE log; Micro and Sonic Logs.

Formation	Log Depth	Sub-Sea Datum
Base Anhydrite	2303	+1120
Herington	2644	+779
Krider	2673	+750
Winfield	2716	+707
Ft. Riley	2812	+611
Wreford	2882	+541
Three Mile Sand	2899	+524
Funston	2933	+490
Cottonwood	3091	+332
Neva	3202	+221
Long Creek	3271	+152
Topeka	3629	-206
Heebner	3894	-471
Toronto	3914	-491
Lansing	3948	-525
Base Kansas City	4384	-961
Marmaton	4419	-996
Marmaton 'B'	4453	-1030
Pawnee	4521	-1098
Myrick Station	4544	-1121
Ft Scott	4560	-1137
Atoka	4692	-1269
Morrow	4786	-1363
Morrow 'A' Sand	4803	-1380
"SGA" Chester (Morrow Lime)	4900	-1477
Lower Morrow Sand (Chester Sand??)	4924	-1501
Mississippi (St. Genevieve)	4952	-1529

Mississippi St Louis	4989	-1566
St Louis Dolomite	5079	-1716
Mississippi Spergen	5139	-1716
Rotary Total Depth	5200	-1777
Log Total Depth	5203	-1780

(All tops and zone(s) correlated to the Electric Log Measurement)

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

CHASE SECTION THROUGH LANSING SECTION

2645-4384' There were several zones of well-developed porosity encountered in the drilling of the above Sections but no significant shows of oil/or gas were noted.

MARMATON SECTION

4428-4436' Limestone, tan, gray, oolitic, chalky, poor visible porosity, trace light brown spotted stain, no free oil and no odor.

PAWNEE SECTION

4521-4530' Limestone; gray; finely oolitic, scattered porosity; chalky, trace spotty brown stain, show of free oil and no odor.

MORROW SAND

4803-4810' Sand; tan, brown, very fine grained; rounded; sub-rounded; well sorted; friable good inter-granular porosity, show of free oil and faint odor, with sand, clear, quartzitic, angular, sub-rounded, medium and coarse grained; poorly sorted; few with secondary quartz overgrowth, brown and black stain, show of free oil and faint odor.

Drill Stem Test #1 4750-4820

Times: 5-30-60-120

Blow: Weak (died 5 mins)
2nd Opening Weak built to 1.7 inches

Recovery: 180' gas in pipe
70' slightly oil and gas cut mud
(10% gas; 6% oil; 20%water; 50% mud)
60' oil and gas cut watery mud
(10% gas; 20% oil; 20% water; 50% mud)
60' oil and gas cut watery mud
(10% gas; 10% oil; 80% mud)

Pressures:		
ISIP	**351**	**psi**
FSIP	**331**	**psi**
IFP	**58-82**	**psi**
FFP	**91-165**	**psi**
HSH	**2490-2391**	**psi**

4844-4850' Trace sand; tan; white, very fine grained friable to hard; poor visible porosity; trace brown stain; show free oil and no odor.

4856-4858' Sand; tan, gray, quartzitic, granular; sub-angular, fair sorting, friable in part; slightly glauconitic, brown stain and saturation; show of free oil and no odor.

Drill Stem Test #2 **4822-4871**

---Misrun--- lost packer seat 17 mins into Test

Recovery: 364' mud

Drill Stem Test #3 **4841-4871**

Times: 5-30-60-60

Blow: Weak

Recovery: 5' slightly gas cut mud, few oil spots

Pressures:

ISIP	**82**	**psi**
FSIP	**65**	**psi**
IFP	**28-30**	**psi**
FFP	**44-49**	**psi**
HSH	**2529-2289**	**psi**

LOWER MORROW SECTION THROUGH MISSISSIPPIAN SECTION

4880-5200' No shows of oil and/or gas were noted See Geologist report/Sample Log.

Rotary Total Depth 5200
Log Total Depth 5203

Recommendations:

The Samuel Gary Jr. Associates, Inc.; Hofbrauhaus #1B-5-2138 was plugged and abandoned at the Rotary Total Depth 5200 (-1777)

Respectfully submitted,

James C Musgrove
Petroleum Geologist



QUASAR ENERGY SERVICES, INC.
3288 FM 51
Gainesville, Texas 76240
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Form 185-2J
11/7/22
CEMENTING JOB LOG

CEMENTING JOB LOG

Company:	SAMUEL GARY JR. & ASSOCIATES			**Well Name:**	HOFBRAUNHAUS 1B-5-2138		
Type Job:	SURFACE			**AFE #:**	0		
CASING DATA							
Size:	8 5/8	Grade:	0	Weight:	24		
Casing Depths	Top: 0	Bottom:	0				
Drill Pipe:	Size: 0	Weight:	0				
Tubing:	Size: 0	Weight:	0	Grade:	0	TD (ft):	318
Open Hole:	Size: 12 1/4	T.D. (ft):	318				
Perforations	From (ft): 0	To:	0	Packer Depth(ft):	0		
CEMENT DATA							
Spacer Type:							
Amt.		Sks Yield		$ft^3/_{sk}$		Density (PPG)	
LEAD:	CLASS A 1%SMS, 2%CC, 1/4#CELLFLAKE					Excess	
Amt.	180	Sks Yield	1.57	$ft^3/_{sk}$	282.6	Density (PPG)	13.96
TAIL:						Excess	
Amt.		Sks Yield		$ft^3/_{sk}$		Density (PPG)	
WATER:	FRESH						
Lead:		gals/sk:	8	Tail:		gals/sk:		Total (bbls):	34.2
Pump Trucks Used:	DP11						
Bulk Equipment:	228						
Disp. Fluid Type:	FRESH WATER	Amt. (Bbls.)	18.5	Weight (PPG):			
Mud Type:				Weight (PPG):			

COMPANY REPRESENTATIVE: _____ **CEMENTER:** JESSE PAXTON

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
AM/PM	Casing	Tubing	ANNULUS	TOTAL	RATE	
1350						ON LOCATION -- SPOT AND RIG UP
1400						SAFETY MEETING
1700	220			50.3	5	START LEAD CEMENT
1711	130			18.5	5	START DISPLACEMENT
1713						CEMENT RETURNS
1716	50					SHUT DOWN @ 18.5 BBL
						20 FT LEFT IN CASING
						4BBL CIRC TO PIT
						THANK YOU FOR YOUR BUISNESS!!!

QUASAR ENERGY SERVICES, INC.
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Form 185-2J

11/18/22

CEMENTING JOB LOG

CEMENTING JOB LOG

Company:	SMAUEL GARY JR. & ASSC			**Well Name:**	HOFBRAUHAUS 1B-5-2138		
Type Job:	PLUG/PTA			**AFE #:**			
CASING DATA							
Size:	0	Grade:	0	Weight:	0		
Casing Depths	Top: 0	Bottom:	0				
Drill Pipe:	Size: 0	Weight:	0				
Tubing:	Size: 0	Weight:	0	Grade:	0	TD (ft):	0
Open Hole:	Size: 0	T.D. (ft):	0				
Perforations	From (ft): 0	To:	0	Packer Depth(ft):	0		
CEMENT DATA							
Spacer Type:							
Amt.		Sks Yield		$ft^3/_{sk}$		Density (PPG)	
LEAD:						Excess	
Amt.		Sks Yield		$ft^3/_{sk}$		Density (PPG)	
TAIL:	CLASS A 60/40/4 1/4#POLY					Excess	
Amt.	300	Sks Yield	1.51	$ft^3/_{sk}$		Density (PPG)	13.5
WATER:							
Lead:		gals/sk:		Tail:	7.5	gals/sk:		Total (bbls):	
Pump Trucks Used:	210-DP11						
Bulk Equipment:							
Disp. Fluid Type:		Amt. (Bbls.)		Weight (PPG):			
Mud Type:				Weight (PPG):			

COMPANY REPRESENTATIVE: _____ **CEMENTER:** CHAD HINZ

TIME	PRESSURES PSI			FLUID PUMPED DATA		REMARKS
AM/PM	Casing	Tubing	ANNULUS	TOTAL	RATE	
1700						ON LOC, SAFTEY MTG, R.U.
1638		230			3	H2O SPACER
1846		200		10	3	START MIXING 50 SX @ 2280'
1850		0		13.44	3	H2O SPACER
1853		0		2	3	MUD
1902						SHUT DOWN, TOOH
2000		180			3	H20 SPACER
2011		180		10	3	MIX 80 SX @ 1230'
2019				21.5	3	H2O SPACER
2022		20		2	3	MUD
2025				10		SHUT DOWN, TOOH
2100		80			3	H20 SPACER
2110		80		10	3	MIX 50 SX @ '
2116				13.44	3	DISPLACE
2117				1		SHUT DOWN, TOOH
2206		70			3	MIX 50 SX @ 360'
2211				13.44	3	DISPLACE
2341						MIX 20SX @ 60'
2346						PLUG RAT AND MOUSE
						JOB COMPLETE
						THANK YOU FOR YOUR BUSINESS!!!