

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	SOEKEN 22-1
Doc ID	1676114

Tops

Name	Top	Datum
Anhydrite	642	1195
Base Anhydrite	669	1168
Heebner	2896	-1059
Toronto	2912	-1075
Douglas	2926	1089
Brown Lime	3007	-1089
Lansing	3018	-1181
Base Kansas City	3276	-1439
Arbuckle	3282	-1445







## DRILL STEM TEST REPORT

Prepared For: **K&N Petroleum Inc.**

1105 Walnut St.  
Great Bend KS, 67530

ATTN: Jim Musgrove

### **Soeken #22-1**

#### **22-11W-17S, Barton,KS**

Start Date: 2022.09.23 @ 09:19:00

End Date: 2022.09.23 @ 15:14:00

Job Ticket #: 65055                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.27 @ 09:08:41



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

K&N Petroleum Inc.  
1105 Walnut St.  
Great Bend KS, 67530  
ATTN: Jim Musgrove

**22-11W-17S, Barton,KS**

**Soeken #22-1**

Job Ticket: 65055

**DST#: 1**

Test Start: 2022.09.23 @ 09:19:00

## GENERAL INFORMATION:

Formation: **LKC A - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:06:00

Time Test Ended: 15:14:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Richie Samora

Unit No: 66

**Interval: 3010.00 ft (KB) To 3102.00 ft (KB) (TVD)**

Reference Elevations: 1837.00 ft (KB)

Total Depth: 3102.00 ft (KB) (TVD)

1827.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8355 Outside**

Press@RunDepth: 57.40 psig @ 3089.02 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.09.23

End Date: 2022.09.23

Last Calib.: 2022.09.23

Start Time: 09:19:05

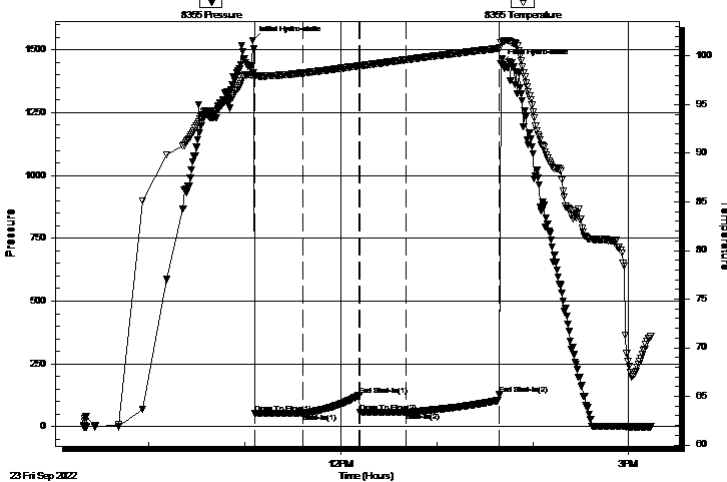
End Time: 15:13:59

Time On Btm: 2022.09.23 @ 11:04:45

Time Off Btm: 2022.09.23 @ 13:40:00

**TEST COMMENT:** 30-IF: Fair blow , built to 1.47"  
30-IS: Weak surface blow  
30-FF: Weak surface blow  
45-FSI: No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1537.40	98.15	Initial Hydro-static
2	52.11	97.76	Open To Flow (1)
32	54.90	98.25	Shut-In(1)
67	125.76	99.00	End Shut-In(1)
68	55.91	98.99	Open To Flow (2)
96	57.40	99.61	Shut-In(2)
155	127.25	100.81	End Shut-In(2)
156	1446.00	101.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud	0.22

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K&N Petroleum Inc.

**22-11W-17S, Barton,KS**

1105 Walnut St.  
Great Bend KS, 67530

**Soeken #22-1**

Job Ticket: 65055

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2022.09.23 @ 09:19:00

## Tool Information

Drill Pipe:	Length: 3011.00 ft	Diameter: 3.88 inches	Volume: 44.03 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.88 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 44.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3010.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.02 ft			
Tool Length:	118.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Shut In Tool	4.00			2988.00	
Hydraulic tool	4.00			2992.00	
Sampler	4.00			2996.00	
EM	5.00			3001.00	
Safety Joint	2.00			3003.00	
Packer	4.00			3007.00	26.00 Bottom Of Top Packer
Packer	3.00			3010.00	
Stubb	1.00			3011.00	
Perforations	8.00			3019.00	
Change Over Sub	1.00			3020.00	
Drill Pipe	63.00			3083.00	
Change Over Sub	1.00			3084.00	
Recorder Carrier	5.00			3089.00	
Recorder	0.01	6839	Inside	3089.01	
Recorder	0.01	8355	Outside	3089.02	
Perforations	10.00			3099.02	
Bullnose	3.00			3102.02	92.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>118.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K&N Petroleum Inc.

**22-11W-17S, Barton,KS**

1105 Walnut St.  
Great Bend KS, 67530

**Soeken #22-1**

Job Ticket: 65055

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2022.09.23 @ 09:19:00

### 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 75.70 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud	0.219

Total Length: 15.00 ft      Total Volume: 0.219 bbl

Num Fluid Samples: 0

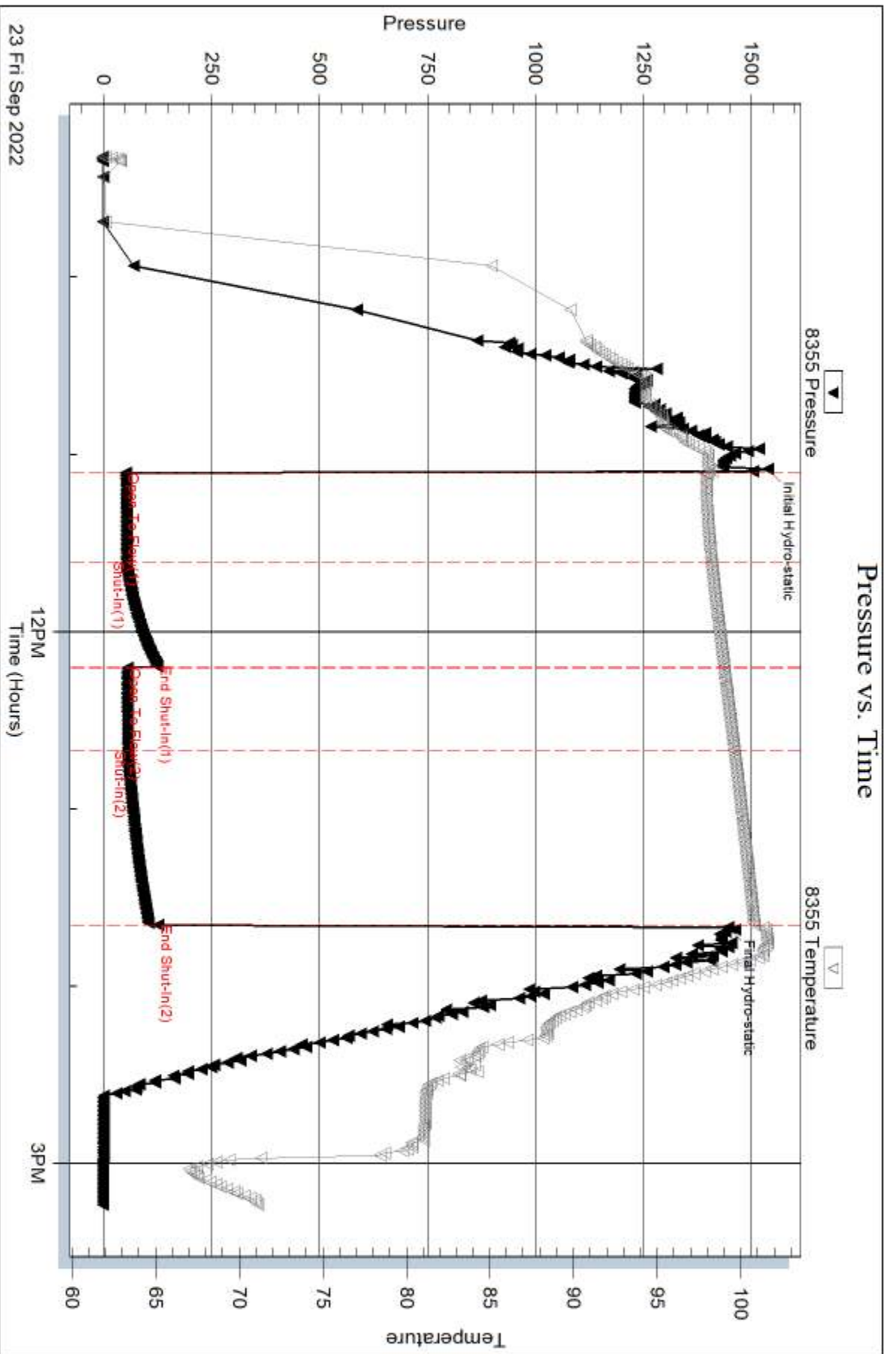
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



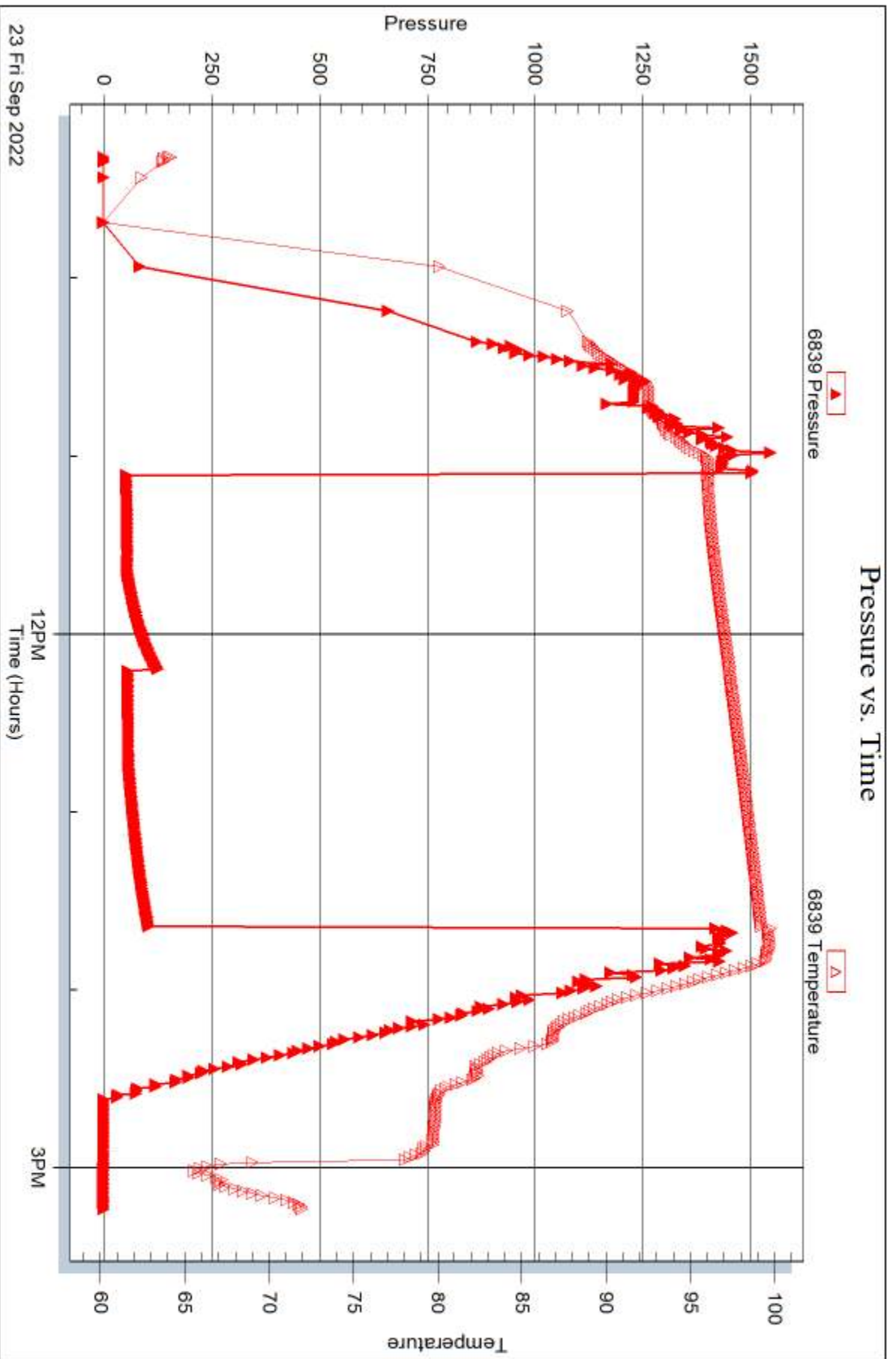
Serial #: 6839

Inside

K&N Petroleum Inc.

Soeken #22-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65055

Printed: 2022.09.27 @ 09:08:42



## DRILL STEM TEST REPORT

Prepared For: **K&N Petroleum Inc.**

1105 Walnut St.  
Great Bend KS, 67530

ATTN: Jim Musgrove

### **Soeken #22-1**

#### **22-11W-17S, Barton,KS**

Start Date: 2022.09.24 @ 01:14:00

End Date: 2022.09.24 @ 07:43:00

Job Ticket #: 65057                      DST #: 2

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

Printed: 2022.09.27 @ 09:07:25



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

K&N Petroleum Inc.  
1105 Walnut St.  
Great Bend KS, 67530  
ATTN: Jim Musgrove

**22-11W-17S, Barton,KS**

**Soeken #22-1**

Job Ticket: 65057

**DST#: 2**

Test Start: 2022.09.24 @ 01:14:00

## GENERAL INFORMATION:

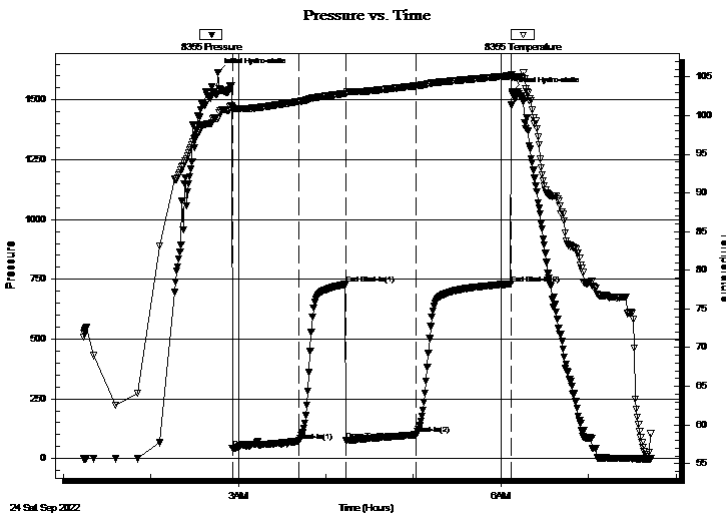
Formation: **Lansing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:56:00  
 Time Test Ended: 07:43:00  
 Interval: **3146.00 ft (KB) To 3220.00 ft (KB) (TVD)**  
 Total Depth: 3102.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Richie Samora  
 Unit No: 66  
 Reference Elevations: 1837.00 ft (KB)  
 1827.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8355 Outside**

Press@RunDepth: 102.11 psig @ 3197.95 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.09.24 End Date: 2022.09.24 Last Calib.: 2022.09.24  
 Start Time: 01:14:05 End Time: 07:42:59 Time On Btm: 2022.09.24 @ 02:46:15  
 Time Off Btm: 2022.09.24 @ 06:07:30

**TEST COMMENT:** 45-IF: Strong blow , built to 11.5"  
 30-ISI: No blow back  
 45-FF: Fair blow , built to 7.75"  
 60-FSI: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1615.17	99.67	Initial Hydro-static
10	42.03	100.94	Open To Flow (1)
56	74.15	101.82	Shut-In(1)
88	728.57	102.86	End Shut-In(1)
88	75.03	102.79	Open To Flow (2)
136	102.11	103.84	Shut-In(2)
201	730.83	105.14	End Shut-In(2)
202	1533.15	105.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	WM - 85%W 15%M	0.92
63.00	MW - 50%M 50%W	0.92
7.00	OSMW - 55%M 30%W 15%O	0.10

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K&N Petroleum Inc.

**22-11W-17S, Barton,KS**

1105 Walnut St.  
Great Bend KS, 67530

**Soeken #22-1**

Job Ticket: 65057

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2022.09.24 @ 01:14:00

## Tool Information

Drill Pipe:	Length: 3136.00 ft	Diameter: 3.88 inches	Volume: 45.86 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.88 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 43000.00 lb
			<u>Total Volume: 45.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3146.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.95 ft			
Tool Length:	99.95 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	4.00			3124.00	
Hydraulic tool	4.00			3128.00	
Sampler	4.00			3132.00	
EM	5.00			3137.00	
Safety Joint	2.00			3139.00	
Packer	4.00			3143.00	26.00 Bottom Of Top Packer
Packer	3.00			3146.00	
Stubb	1.00			3147.00	
Perforations	12.00			3159.00	
Change Over Sub	1.00			3160.00	
Drill Pipe	31.93			3191.93	
Change Over Sub	1.00			3192.93	
Recorder Carrier	5.00			3197.93	
Recorder	0.01	6839	Inside	3197.94	
Recorder	0.01	8355	Outside	3197.95	
Perforations	19.00			3216.95	
Bullnose	3.00			3219.95	73.95 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>99.95</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K&N Petroleum Inc.  
1105 Walnut St.  
Great Bend KS, 67530  
ATTN: Jim Musgrove

**22-11W-17S, Barton,KS**  
**Soeken #22-1**  
Job Ticket: 65057      **DST#: 2**  
Test Start: 2022.09.24 @ 01:14:00

### 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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 75.64 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	WM - 85%W 15%M	0.921
63.00	MW - 50%M 50%W	0.921
7.00	OSMW - 55%M 30%W 15%O	0.102

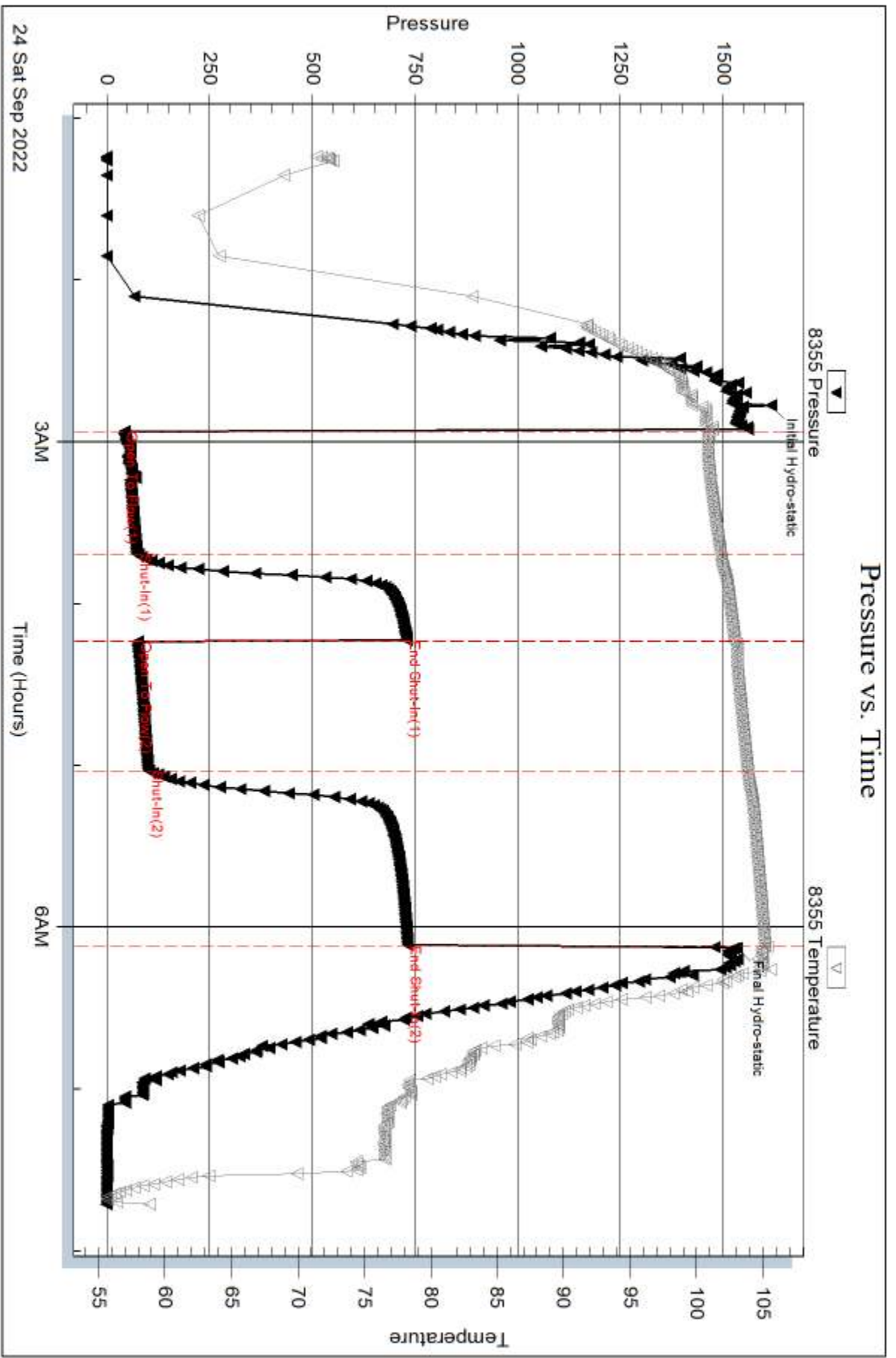
Total Length: 133.00 ft      Total Volume: 1.944 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 8355

Outside K&N Petroleum Inc.

Soeken #22-1

DST Test Number: 2



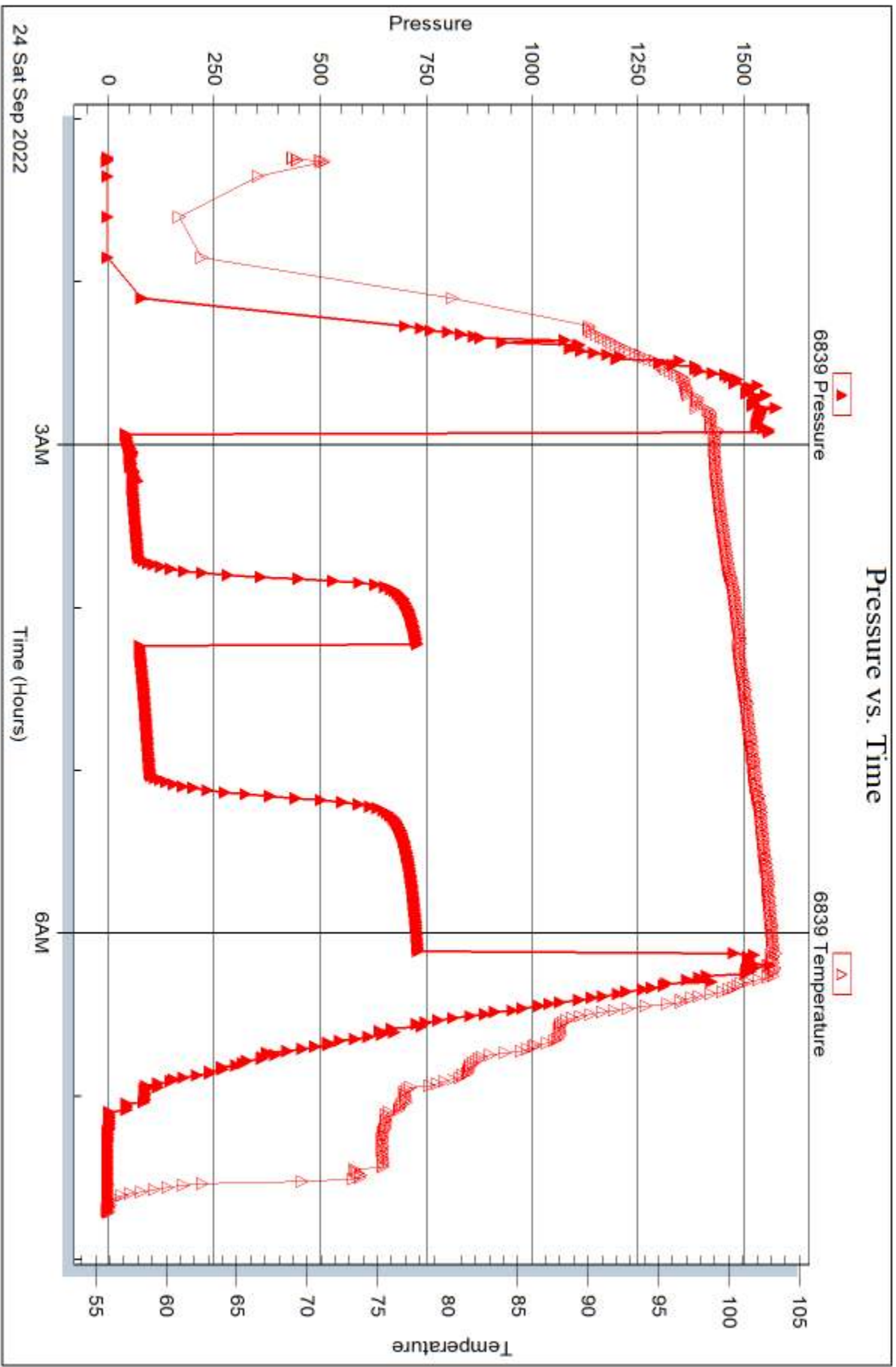
Serial #: 6839

Inside

K&N Petroleum Inc.

Soeken #22-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65057

Printed: 2022.09.27 @ 09:07:26



## DRILL STEM TEST REPORT

Prepared For: **K&N Petroleum Inc.**

1105 Walnut St.  
Great Bend KS, 67530

ATTN: Jim Musgrove

### **Soeken #22-1**

#### **22-11W-17S, Barton,KS**

Start Date: 2022.09.24 @ 18:50:00

End Date: 2022.09.25 @ 00:38:15

Job Ticket #: 65058                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.27 @ 09:06:50



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

K&N Petroleum Inc.  
 1105 Walnut St.  
 Great Bend KS, 67530  
 ATTN: Jim Musgrove

**22-11W-17S, Barton,KS**

**Soeken #22-1**

Job Ticket: 65058

**DST#: 3**

Test Start: 2022.09.24 @ 18:50:00

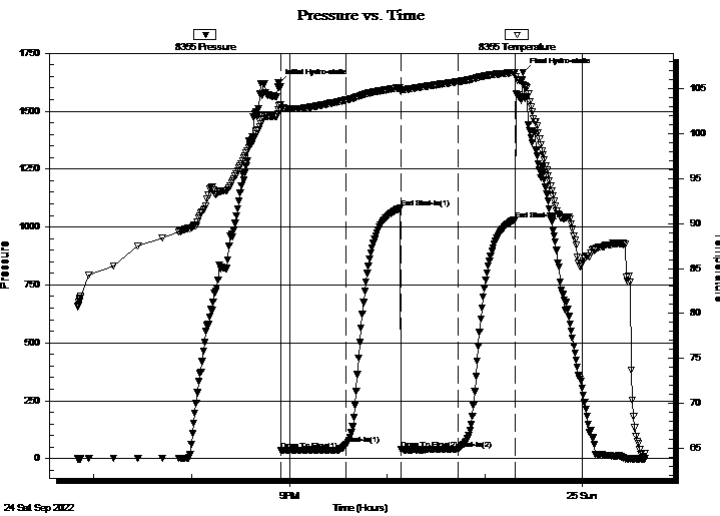
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:54:45  
 Time Test Ended: 00:38:15  
 Interval: **3246.00 ft (KB) To 3299.00 ft (KB) (TVD)**  
 Total Depth: 3299.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Richie Samora  
 Unit No: 66  
 Reference Elevations: 1837.00 ft (KB)  
 1827.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8355 Outside**

Press@RunDepth: 42.09 psig @ 3293.02 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.09.24 End Date: 2022.09.25 Last Calib.: 2022.09.24  
 Start Time: 18:50:05 End Time: 00:38:14 Time On Btm: 2022.09.24 @ 20:53:15  
 Time Off Btm: 2022.09.24 @ 23:23:30

TEST COMMENT: 30-IF: Weak surface blow  
 30-ISI: No blow back  
 30-FF: No blow  
 30-FSI: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.72	102.62	Initial Hydro-static
2	36.91	102.55	Open To Flow (1)
42	62.48	103.76	Shut-In(1)
75	1080.76	105.13	End Shut-In(1)
76	39.79	104.69	Open To Flow (2)
111	42.09	105.78	Shut-In(2)
146	1032.66	106.81	End Shut-In(2)
151	1667.38	105.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	MO-45%O, 55%M	0.15
5.00	CO-100%O	0.07

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K&N Petroleum Inc.

**22-11W-17S, Barton,KS**

1105 Walnut St.  
Great Bend KS, 67530

**Soeken #22-1**

Job Ticket: 65058

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2022.09.24 @ 18:50:00

## Tool Information

Drill Pipe:	Length: 3231.00 ft	Diameter: 3.88 inches	Volume: 47.25 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.88 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 47.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3246.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.02 ft			
Tool Length:	79.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	4.00			3224.00	
Hydraulic tool	4.00			3228.00	
Sampler	4.00			3232.00	
EM	5.00			3237.00	
Safety Joint	2.00			3239.00	
Packer	4.00			3243.00	26.00 Bottom Of Top Packer
Packer	3.00			3246.00	
Stubb	1.00			3247.00	
Perforations	8.00			3255.00	
Change Over Sub	1.00			3256.00	
Drill Pipe	31.00			3287.00	
Change Over Sub	1.00			3288.00	
Recorder Carrier	5.00			3293.00	
Recorder	0.01	6839	Inside	3293.01	
Recorder	0.01	8355	Outside	3293.02	
Perforations	3.00			3296.02	
Bullnose	3.00			3299.02	53.02 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>79.02</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K&N Petroleum Inc.

**22-11W-17S, Barton,KS**

1105 Walnut St.  
Great Bend KS, 67530

**Soeken #22-1**

Job Ticket: 65058

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2022.09.24 @ 18:50:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MO-45%O, 55%M	0.146
5.00	CO-100%O	0.073

Total Length: 15.00 ft      Total Volume: 0.219 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

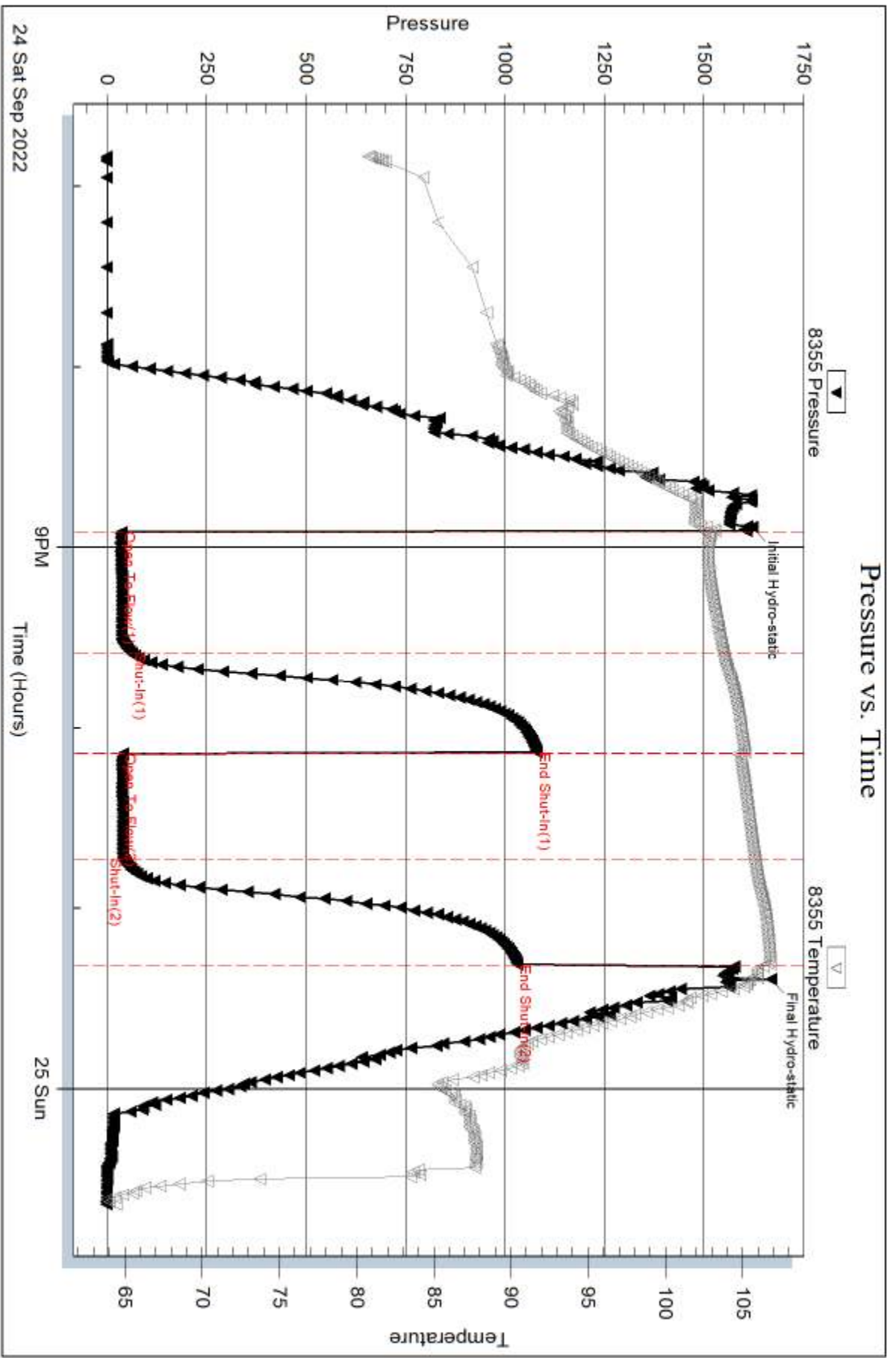


Serial #: 8355

Outside K&N Petroleum Inc.

Soeken #22-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65058

Printed: 2022.09.27 @ 09:06:52

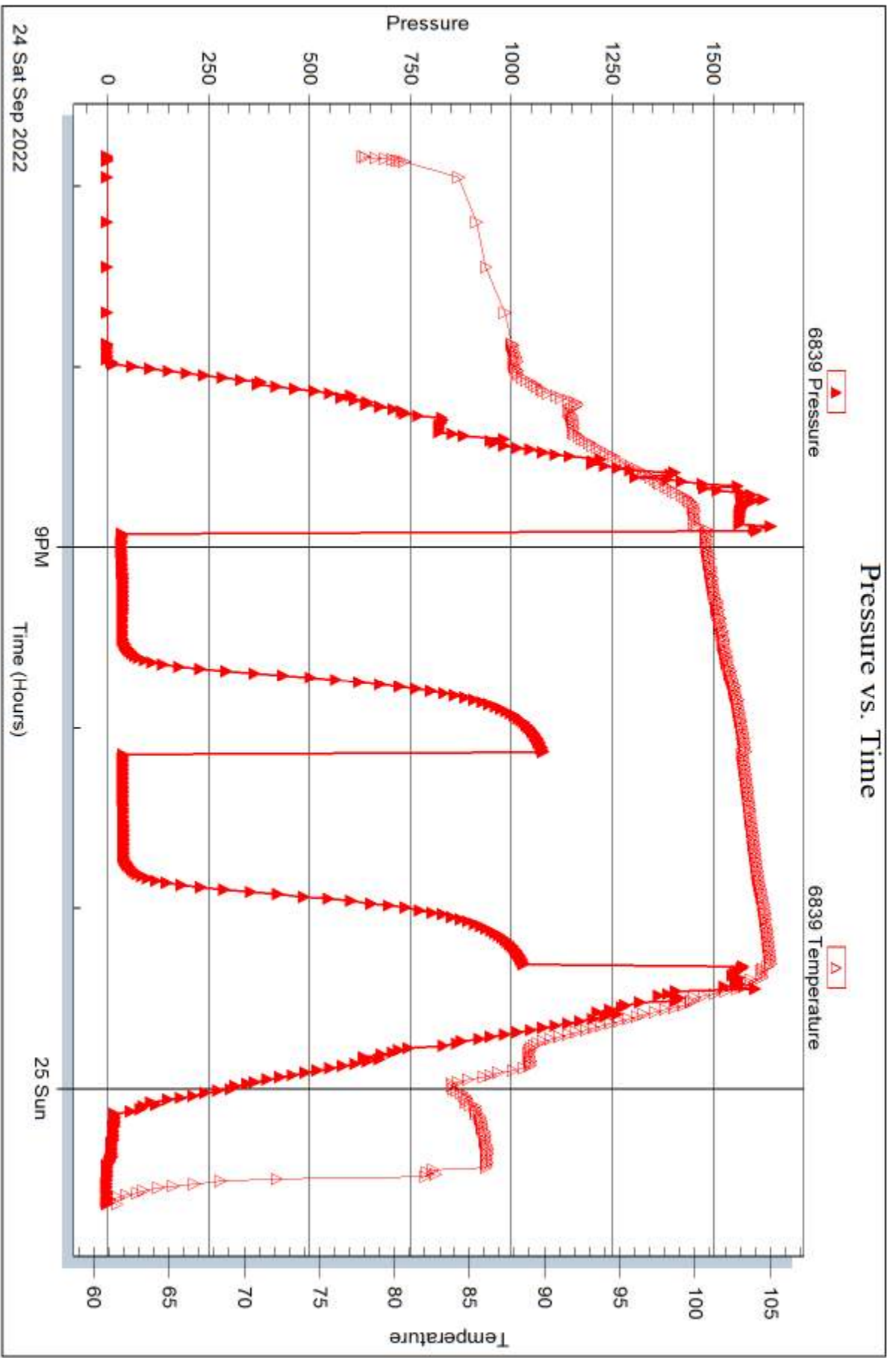
Serial #: 6839

Inside

K&N Petroleum Inc.

Soeken #22-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65058

Printed: 2022.09.27 @ 09:06:52



## DRILL STEM TEST REPORT

Prepared For: **K&N Petroleum Inc.**

1105 Walnut St.  
Great Bend KS, 67530

ATTN: Jim Musgrove

### **Soeken #22-1**

#### **22-11W-17S, Barton,KS**

Start Date: 2022.09.25 @ 07:05:00

End Date: 2022.09.25 @ 13:02:15

Job Ticket #: 65059                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.09.27 @ 09:06:12



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

K&N Petroleum Inc.  
1105 Walnut St.  
Great Bend KS, 67530  
ATTN: Jim Musgrove

**22-11W-17S, Barton,KS**

**Soeken #22-1**

Job Ticket: 65059

**DST#: 4**

Test Start: 2022.09.25 @ 07:05:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:34:30  
 Time Test Ended: 13:02:15  
 Interval: **3291.00 ft (KB) To 3309.00 ft (KB) (TVD)**  
 Total Depth: 3102.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Richie Samora  
 Unit No: 66  
 Reference Elevations: 1837.00 ft (KB)  
 1827.00 ft (CF)  
 KB to GR/CF: 10.00 ft

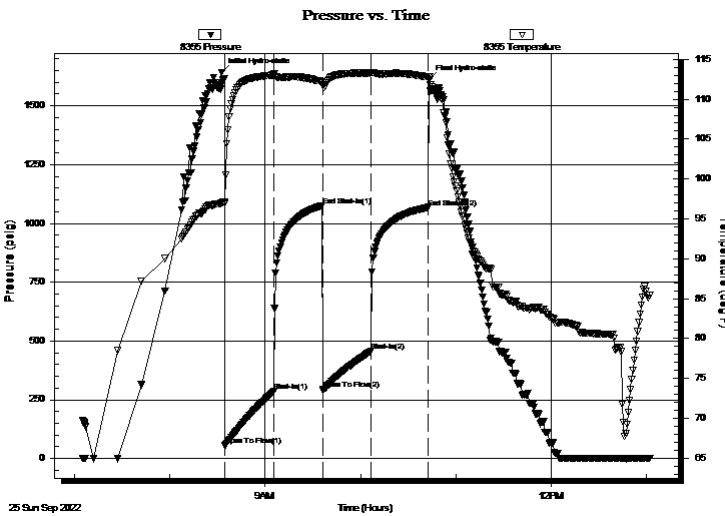
## Serial #: 8355

**Outside**

Press@RunDepth: 456.66 psig @ 3297.02 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.09.25 End Date: 2022.09.25 Last Calib.: 2022.09.25  
 Start Time: 07:05:05 End Time: 13:02:14 Time On Btm: 2022.09.25 @ 08:32:30  
 Time Off Btm: 2022.09.25 @ 10:43:15

**TEST COMMENT:** 30-IF: Strong blow , BOB in 3 minutes, built to 76.5"  
 30-ISI: No blow back  
 30-FF: Strong blow , BOB in 4 minutes, built to 60.5"  
 30-FSI: No blow bacvk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.09	96.98	Initial Hydro-static
2	56.63	96.96	Open To Flow (1)
33	285.75	113.05	Shut-In(1)
64	1075.98	112.25	End Shut-In(1)
64	295.99	111.73	Open To Flow (2)
95	456.66	113.31	Shut-In(2)
130	1067.60	112.77	End Shut-In(2)
131	1610.63	112.88	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
315.00	W / 100%W	4.61
189.00	OWM / 5%M 15%O 80%W	2.76
189.00	GMWO / 10%G 15%O 20%M 55%W	2.76
315.00	OWM 45%O 35% 20%M	4.61

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K&N Petroleum Inc.

**22-11W-17S, Barton,KS**

1105 Walnut St.  
Great Bend KS, 67530

**Soeken #22-1**

Job Ticket: 65059

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2022.09.25 @ 07:05:00

## Tool Information

Drill Pipe:	Length: 3294.00 ft	Diameter: 3.88 inches	Volume: 48.17 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.88 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 48.17 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3291.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	18.02 ft				
Tool Length:	44.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	4.00			3269.00	
Hydraulic tool	4.00			3273.00	
Sampler	4.00			3277.00	
EM	5.00			3282.00	
Safety Joint	2.00			3284.00	
Packer	4.00			3288.00	26.00 Bottom Of Top Packer
Packer	3.00			3291.00	
Stubb	1.00			3292.00	
Recorder carrier	5.00			3297.00	
Recorder	0.01	6839	Inside	3297.01	
Recorder	0.01	8355	Outside	3297.02	
Perforations	9.00			3306.02	
Bullnose	3.00			3309.02	18.02 Bottom Packers & Anchor

**Total Tool Length: 44.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

K&N Petroleum Inc.

**22-11W-17S, Barton,KS**

1105 Walnut St.  
Great Bend KS, 67530

**Soeken #22-1**

Job Ticket: 65059

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2022.09.25 @ 07:05:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 8.78 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	W / 100%W	4.607
189.00	OWM / 5%M 15%O 80%W	2.764
189.00	GMWO / 10%G 15%O 20%M 55%W	2.764
315.00	OWM / 45%O 35% 20%M	4.607

Total Length: 1008.00 ft      Total Volume: 14.742 bbl

Num Fluid Samples: 0

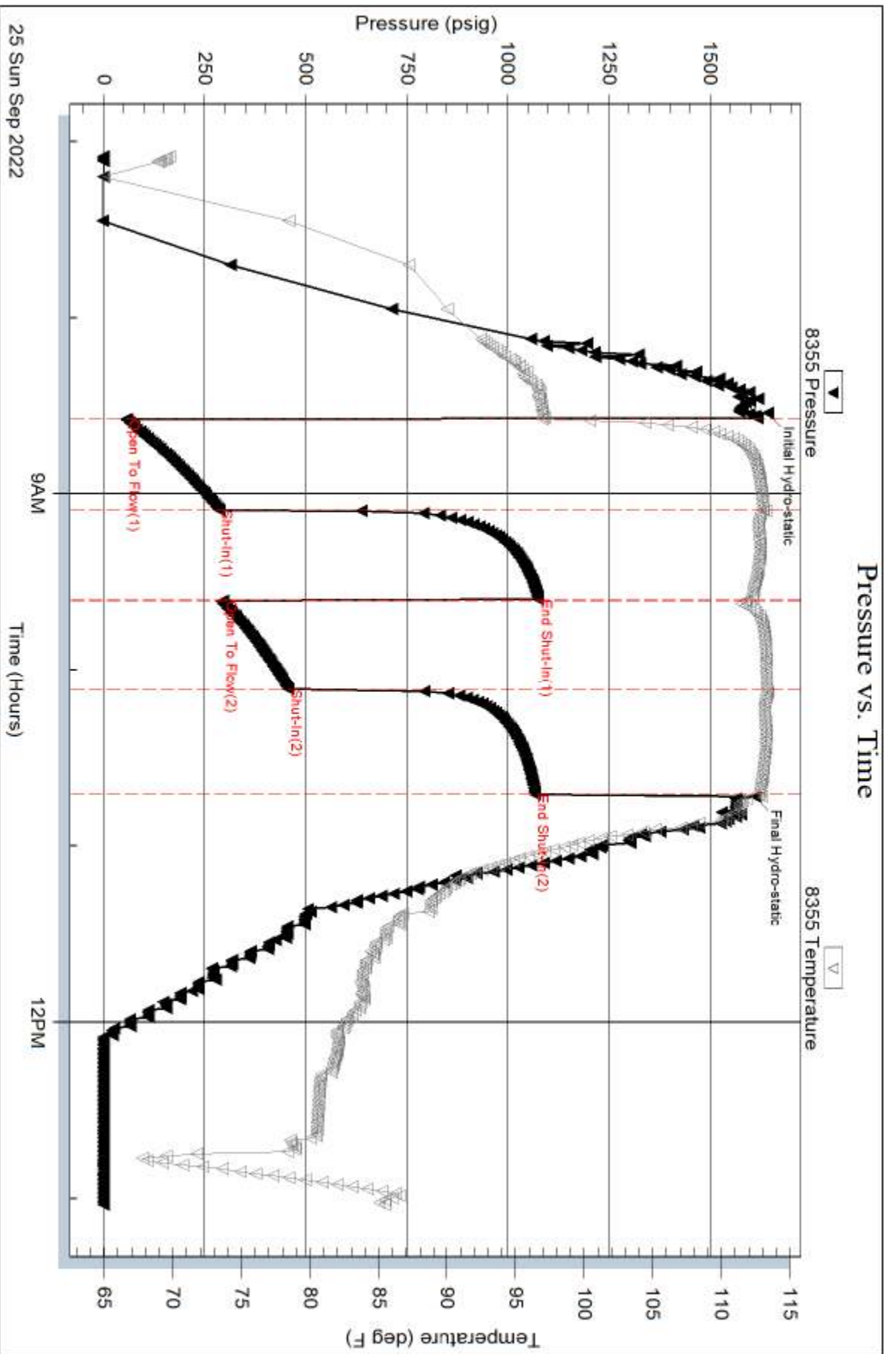
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





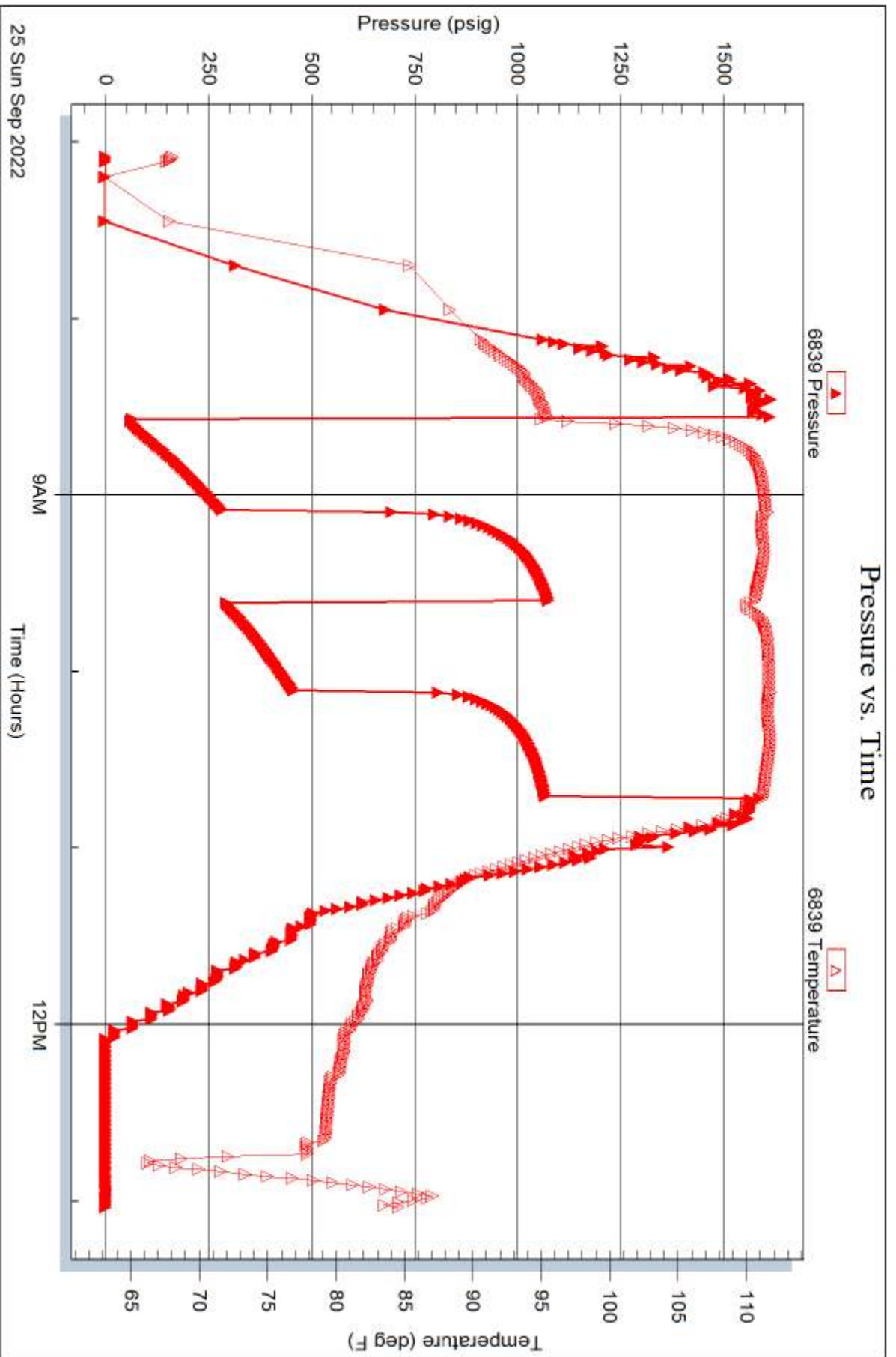
Serial #: 6839

Inside

K&N Petroleum Inc.

Soeken #22-1

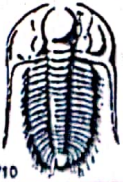
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 65059

Printed: 2022.09.27 @ 09:06:16



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65055

Well Name & No. Soeken 22-1 Test No. 1 Date 9-23-22  
 Company K+N Petroleum Inc Elevation 1837 KB 1527 GL  
 Address 1105 Walnut St Great Bend KS 67530  
 Co. Rep / Geo. Jim Musgrave Rig Southwind  
 Location: Sec. 22 Twp 11W Rge. 17S Co. Barton State KS

Interval Tested 3010-3102 Zone Tested KC A-F  
 Anchor Length 92 Drill Pipe Run 3011 Mud Wt. 8.6  
 Top Packer Depth 3005 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3010 Wt. Pipe Run 0 WL 76  
 Total Depth 3102 Chlorides 2000 ppm System LCM 2

Blow Description IF: Fair blow, built to 1.47"  
IST: Weak surface blow  
FF: Weak surface blow  
FST: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT NA Gravity NA API RW NA @ NA F Chlorides NA ppm

(A) Initial Hydrostatic 1537  Test 1800 T-On Location 07:45  
 (B) First Initial Flow 52  Jars \_\_\_\_\_ T-Started 09:19  
 (C) First Final Flow 55  Safety Joint \_\_\_\_\_ T-Open 11:07  
 (D) Initial Shut-In 126  Circ Sub \_\_\_\_\_ T-Pulled 13:37  
 (E) Second Initial Flow 56  Hourly Standby \_\_\_\_\_ T-Out 14:45  
 (F) Second Final Flow 57  Mileage (21 miles) 42rt 63  
 (G) Final Shut-In 127  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1446  Straddle \_\_\_\_\_

Initial Open 30  EM Tool -350  
 Initial Shut-In 30  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 30  Ruined Packer \_\_\_\_\_  
 Final Shut-In 45  Extra Recorder \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total -350  
 Total 1513  
 Sub Total 1863 MP/DST Disc'l \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]  
 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.





# TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65057

Well Name & No. Soeken 22-1 Test No. 2 Date 9-24-72  
 Company K&N Petroleum, Inc Elevation 1837 KB 1827 GL  
 Address 1105 Walnut St Great Bend KS 67530  
 Co. Rep / Geo. Jim Musgrave Rig Southwind  
 Location: Sec. 22 Twp 11W Rge. 17S Co. Barton State KS

Interval Tested 3146-3220 Zone Tested LANSING  
 Anchor Length 74' Drill Pipe Run 3136 Mud Wt. 8.6  
 Top Packer Depth 3141 Drill Collars Run 0 Vis 57  
 Bottom Packer Depth 3146 Wt. Pipe Run 0 WL 76  
 Total Depth 3220 Chlorides 2000 ppm System LCM 2

Blow Description IF: Strong blow, built to 11.5"  
ISI: No blow back  
EF: Fair blow, built to 7.75"  
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
<u>7</u>	<u>OSMW</u>	<u>0</u>	<u>15</u>	<u>30</u>	<u>55</u>
<u>63</u>	<u>MW</u>	<u>0</u>	<u>0</u>	<u>50</u>	<u>50</u>
<u>63</u>	<u>WM</u>	<u>0</u>	<u>0</u>	<u>85</u>	<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 134 BHT 103 Gravity N/A API RW N/A @ N/A °F Chlorides N/A ppm

- (A) Initial Hydrostatic 1615
- (B) First Initial Flow 42
- (C) First Final Flow 74
- (D) Initial Shut-In 729
- (E) Second Initial Flow 75
- (F) Second Final Flow 102
- (G) Final Shut-In 730
- (H) Final Hydrostatic 1533

- Test 1800
  - Jars
  - Safety Joint
  - Circ Sub
  - Hourly Standby
  - Mileage 63
  - Sampler
  - Straddle
  - Shale Packer
  - Extra Packer
  - Extra Recorder
  - Day Standby
  - Accessibility
- Sub Total 1863

T-On Location 00:40  
 T-Started 01:14  
 T-Open 02:57  
 T-Pulled 04:05  
 T-Out 07:20  
 Comments \_\_\_\_\_  
 EM Tool \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1863

Initial Open 45 BHT  
 Initial Shut-In 30 BHT  
 Final Flow 45  
 Final Shut-In 60

Approved By \_\_\_\_\_ Our Representative Rigil Samson

Triobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of 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.





# TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65058

Well Name & No. Sorken 22-1 Test No. 3 Date 9-24-22  
 Company K&W Petrol. Inc. Elevation 1837 KB 1827 GL  
 Address 1105 Walnut St Great Bend KS 67530  
 Co. Rep / Geo. Jim Musgrave Rig Southwind  
 Location: Sec. 22 Twp 11w Rge. 17s Co. Barton State Ks

Interval Tested 3246-3299 Zone Tested Arbuckle  
 Anchor Length 53 Drill Pipe Run 3231 Mud Wt. 9.2  
 Top Packer Depth 3241 Drill Collars Run 0 Vis 40  
 Bottom Packer Depth 3246 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3299 Chlorides 2000 ppm System LCM 2

Blow Description IF: Weak surface blow  
IST: No blow back  
FK: No blow  
FST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>CO</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>0</u>
<u>10</u>	<u>MO</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>55</u>
<u>Tool</u>	<u>MO</u>	<u>0</u>	<u>25</u>	<u>0</u>	<u>75</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT NA Gravity NA API RW NA @ NA °F Chlorides NA ppm

- (A) Initial Hydrostatic 162
- (B) First Initial Flow 37
- (C) First Final Flow 62
- (D) Initial Shut-In 1081
- (E) Second Initial Flow 40
- (F) Second Final Flow 42
- (G) Final Shut-In 1032
- (H) Final Hydrostatic 1067

- Test 1800
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 63
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

- T-On Location 15:16
- T-Started 18:50
- T-Open 20:56
- T-Pulled 23:20
- T-Out 00:30

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

- Comments
- EM Tool
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1863

Approved By [Signature] Our Representative Richard [Signature] MP/DST Disc't

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65059

Well Name & No. Soeken 22-1 Test No. 4 Date 9-25-22  
 Company K+N Petro Inc Elevation 1837 KB 1827 GL  
 Address 1105 Walnut St Great Bend KS 67530  
 Co. Rep / Geo. Jim Murgrove Rig Southwind  
 Location: Sec. 22 Twp 11W Rge. 17S Co. Barber State KS

Interval Tested 3291-3309 Zone Tested Achuckle  
 Anchor Length 18 Drill Pipe Run 3294 Mud Wt. 9.2  
 Top Packer Depth 3286 Drill Collars Run 0 Vis 60  
 Bottom Packer Depth 3291 Wt. Pipe Run 0 WL 88  
 Total Depth 3309 Chlorides 3500 ppm System LCM 1#  
 Blow Description IF: Strong blow, BOB in 3 minutes, built to 76.5"  
IS1: No blow back  
FF: Strong blow, BOB in 4 minutes, built to 60.5"  
FS1: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
315	QWM	0	45	35	20
189	GMWA	10	15	55	20
165	WQM	0	15	80	5
315	SW	0	0	100	0

Rec Total 1040 BHT NA Gravity NA API RW UA @ UA Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1642  Test 1800 T-On Location 06:30  
 (B) First Initial Flow 57  Jars \_\_\_\_\_ T-Started 07:05  
 (C) First Final Flow 731  Safety Joint \_\_\_\_\_ T-Open 08:34  
 (D) Initial Shut-In 1076  Circ Sub \_\_\_\_\_ T-Pulled 10:40  
 (E) Second Initial Flow 296  Hourly Standby \_\_\_\_\_ T-Out 12:30  
 (F) Second Final Flow 792  Mileage 63 Comments \_\_\_\_\_  
 (G) Final Shut-In 1068  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1611  Straddle \_\_\_\_\_  EM Tool -350  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1863

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

Sub Total 1513

Approved By \_\_\_\_\_ Our Representative Rickie Jones  
 MP/DST Disc't \_\_\_\_\_

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.



TREATMENT REPORT

Acid Stage No. \_\_\_\_\_

Date 9/25/2022 District GB F.O. No. C60683  
 Company K & N PETROLEUM  
 Well Name & No. SOEKEN 22-1  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
 County BARTON State KS  
 Casing: Size \_\_\_\_\_ Type & Wt. \_\_\_\_\_ Set at \_\_\_\_\_ ft.  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Formation: \_\_\_\_\_ Perf. \_\_\_\_\_ to \_\_\_\_\_  
 Liner: Size \_\_\_\_\_ Type & Wt. \_\_\_\_\_ Top at \_\_\_\_\_ ft. Bottom at \_\_\_\_\_ ft.  
 Cemented:  Yes  No Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Tubing: Size & Wt. \_\_\_\_\_ Swung at \_\_\_\_\_ ft.  
 Perforated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Open Hole Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Type Treatment: \_\_\_\_\_ Amt. \_\_\_\_\_ Type Fluid \_\_\_\_\_ Sand Size \_\_\_\_\_ Pounds of Sand \_\_\_\_\_  
 Bkdown \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 Flush \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 Treated from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0  
 from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. No. ft. 0  
 Actual Volume of Oil / Water to Load Hole: \_\_\_\_\_ Bbl./Gal.  
 Pump Trucks. No. Used: Std. 365 Sp. \_\_\_\_\_ Twin \_\_\_\_\_  
 Auxiliary Equipment \_\_\_\_\_ 327  
 Personnel GREG CLARENCE  
 Auxiliary Tools \_\_\_\_\_  
 Plugging or Sealing Materials: Type 60/40 4% GEL 1/4# SK CELLOFLAKE  
 \_\_\_\_\_ Gals. \_\_\_\_\_ lb.

Company Representative KYLE N. Treater GREG C.

TIME a.m./p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
5:00				ON LOCATION
				PUMP 50 SKS @ 3262'
				PUMP 50 SKS @ 700'
				PUMP 80 SKS @ 425'
				CIRCULATE CEMENT FROM 40' TO SURFACE, TOOK 10 SKS
				PLUG RATHOLE WITH 30 SKS
				PLUG MOUSEHOLE WITH 15 SKS
9:30				JOB COMPLETE
				THANK YOU!!!

**OPERATOR**

Company: KN Petroleum Inc.  
 Address: 1105 Walnut St.  
 Great Bend, KS 67530-5620

Contact Geologist: Jim Musgrove  
 Contact Phone Nbr: 620-786-0839  
 Well Name: Soeken #22-1  
 Location: 22-17s-11w E2-SW-SW-SW  
 API: 15-009-26368-00-00  
 Pool:  
 State: Kansas

Field: Kraft-Prusa  
 Country: USA

**PETROLEUM, INC.**

Scale 1:240 Imperial

Well Name: Soeken #22-1  
 Surface Location: 22-17s-11w E2-SW-SW-SW  
 Bottom Location:  
 API: 15-009-26368-00-00  
 License Number: 3208  
 Spud Date: 9/19/2022 Time: 12:00 AM  
 Region: Barton  
 Drilling Completed: 9/25/2022 Time: 12:00 AM  
 Surface Coordinates: 330' FSL & 379' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1827.00ft  
 K.B. Elevation: 1837.00ft  
 Logged Interval: 0.00ft To: 0.00ft  
 Total Depth: 3309.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**CASING SUMMARY**

	Surface	Intermediate	Main		
Bit Size					
Hole Size					
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8 5/8" in	654 ft			
Int Casing					
Prod Casing	None in	0.00 ft			

**CASING SEQUENCE**

Type	Hole Size	Casing Size	At
	0.00 in	0.00	0.00 ft

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 Latitude:  
 N/S Co-ord: 330' FSL  
 E/W Co-ord: 379' FWL

**LOGGED BY**



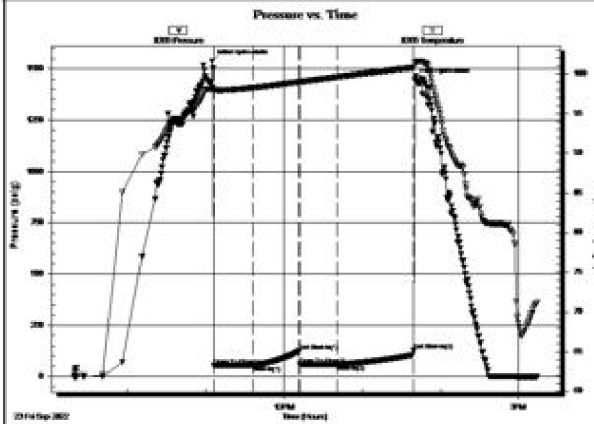




Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:06:00  
 Time Test Ended: 15:14:00  
 Interval: 3010.00 ft (KB) To 3102.00 ft (KB) (TVD)  
 Total Depth: 3102.00 ft (KB) (TVD)  
 Hole Diameter: 7.00 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Richie Samora  
 Unit No: 66  
 Reference Elevations: 1837.00 ft (KB)  
 1827.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8355** Outside  
 Press@RunDepth: 57.40 psig @ 3089.02 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.09.23 End Date: 2022.09.23 Last Calib.: 2022.09.23  
 Start Time: 09:19:05 End Time: 15:13:59 Time On Btm: 2022.09.23 @ 11:04:45  
 Time Off Btm: 2022.09.23 @ 13:40:00

**TEST COMMENT:** 30-IF: Fair blow, built to 1.47"  
 30-IS: Weak surface blow  
 30-FF: Weak surface blow  
 45-FSt: No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1537.40	98.15	Initial Hydro-static
2	52.11	97.76	Open To Flow (1)
32	54.90	98.25	Shut-In(1)
67	125.76	99.00	End Shut-In(1)
68	55.91	98.99	Open To Flow (2)
96	57.40	99.61	Shut-In(2)
155	127.25	100.81	End Shut-In(2)
156	1446.00	101.36	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	Mud	0.22

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

Trilobite Testing, Inc

Ref. No: 65055

Printed: 2022.09.23 @ 16:05:35



## DRILL STEM TEST REPORT

K&N Petroleum Inc.  
 1105 Walnut St  
 Great Bend KS, 67530  
 ATTN: Jim Musgrove

22-11W-17S, Barton, KS  
**Soeken 22-1**  
 Job Ticket: 65057 **DST#: 2**  
 Test Start: 2022.09.24 @ 01:14:00

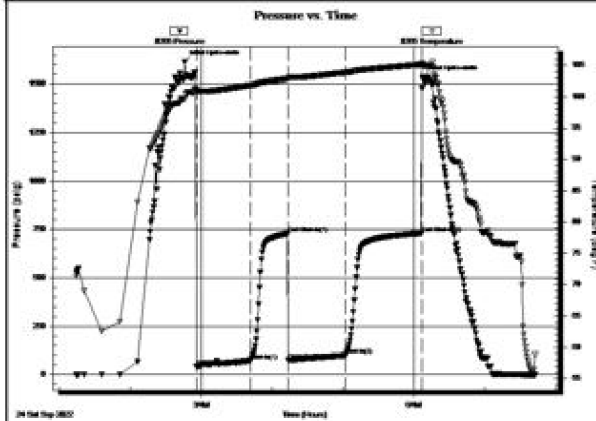
### GENERAL INFORMATION:

Formation: **Lansing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:56:00  
 Time Test Ended: 07:43:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Richie Samora  
 Unit No: 66  
 Interval: 3146.00 ft (KB) To 3220.00 ft (KB) (TVD)  
 Total Depth: 3102.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Reference Elevations: 1837.00 ft (KB)  
 1827.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8355**  
 Press@RunDepth: 102.11 psig @ 3207.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.09.24 End Date: 2022.09.24 Last Calib.: 1899.12.30  
 Start Time: 01:14:05 End Time: 07:42:59 Time On Btm: 2022.09.24 @ 02:46:15  
 Time Off Btm: 2022.09.24 @ 06:07:30

**TEST COMMENT:** 45-IF: Strong blow, built to 11.5"

30-IS1: No blow back  
 45-FF: Fair blow , built to 7.75"  
 60-FS1: No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1615.17	99.67	Initial Hydro-static
10	42.03	100.94	Open To Flow (1)
56	74.15	101.82	Shut-In(1)
88	728.57	102.86	End Shut-In(1)
88	75.03	102.79	Open To Flow (2)
136	102.11	103.84	Shut-In(2)
201	730.83	105.14	End Shut-In(2)
202	1533.15	105.00	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
7.00	OSMW - 55%M 30%W 15%O	0.10
63.00	MW - 50%M 50%W	0.92
63.00	WM - 85%W 15%M	0.92

\* Recovery from multiple tests

**Gas Rates**

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

Trilobite Testing, Inc

Ref. No: 65057

Printed: 2022.09.24 @ 09:04:02



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

K&N Petroleum Inc.

**22-11W-17S, Barton,KS**

1105 Walnut St.  
Great Bend KS, 67530

**Soeken #22-1**

Job Ticket: 65058

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2022.09.24 @ 18:50:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:54:45

Time Test Ended: 00:38:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Richie Samora

Unit No: 66

Interval: **3246.00 ft (KB) To 3299.00 ft (KB) (TVD)**

Total Depth: 3299.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1837.00 ft (KB)

1827.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8355**

**Outside**

Press@RunDepth: 42.09 psig @ 3293.02 ft (KB)

Start Date: 2022.09.24

Start Time: 18:50:05

End Date:

End Time:

2022.09.25

00:38:14

Capacity: 8000.00 psig

Last Calib.: 2022.09.24

Time On Btm: 2022.09.24 @ 20:53:15

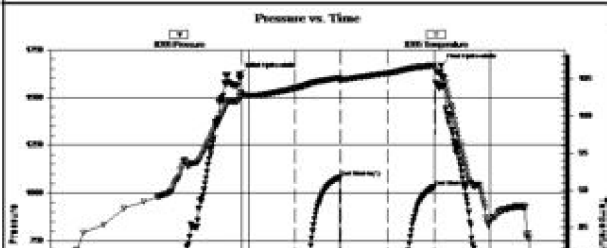
Time Off Btm: 2022.09.24 @ 23:23:30

**TEST COMMENT:** 30-IF: Weak surface blow

30-IS1: No blow back

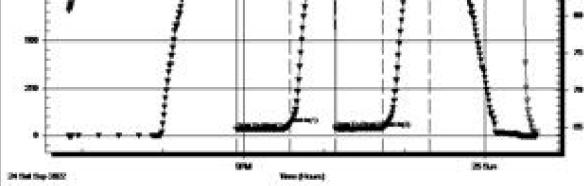
30-FF: No blow

30-FS1: No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1620.72	102.62	Initial Hydro-static
2	36.91	102.55	Open To Flow (1)
42	62.48	103.76	Shut-In(1)
75	1080.76	105.13	End Shut-In(1)
76	39.79	104.69	Open To Flow (2)
111	42.09	105.78	Shut-In(2)



146 1032.66 106.81 End Shut-In(2)  
 151 1667.38 105.48 Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	MO-45%O, 55%M	0.15
5.00	CO-100%O	0.07

\* Recovery from multiple tests

**Gas Rates**

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

Triobite Testing, Inc

Ref. No: 65058

Printed: 2022.09.27 @ 09:06:50



**TRIOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

K&N Petroleum Inc.

**22-11W-17S, Barton, KS**

1105 Walnut St.  
Great Bend KS, 67530

**Soeken 22-1**

Job Ticket: 65059

**DST#: 4**

ATTN: Jim Musgrove

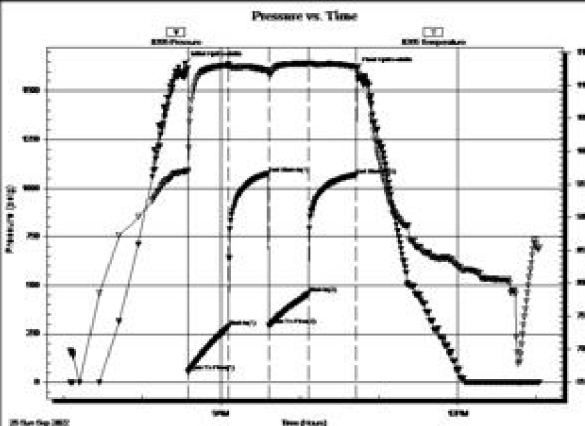
Test Start: 2022.09.25 @ 07:05:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:34:30  
 Time Test Ended: 13:02:15  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Richie Samora  
 Unit No: 66  
 Interval: **3291.00 ft (KB) To 3309.00 ft (KB) (TVD)**  
 Reference Elevations: 1837.00 ft (KB)  
 Total Depth: 3102.00 ft (KB) (TVD)  
 KB to GRVCF: 1827.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 KB to GRVCF: 10.00 ft

**Serial #: 8355 Outside**  
 Press@RunDepth: 456.66 psig @ 3297.02 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.09.25 End Date: 2022.09.25 Last Calib.: 1899.12.30  
 Start Time: 07:05:05 End Time: 13:02:14 Time On Btm: 2022.09.25 @ 08:32:30  
 Time Off Btm: 2022.09.25 @ 10:43:15

**TEST COMMENT:** 30-IF: Strong blow, BOB in 3 minutes, built to 76.5  
 30-ISI: No blow back  
 30-FF: Strong blow, BOB in 4 minutes, built to 60.5  
 30-FSI: No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.09	96.98	Initial Hydro-static
2	56.63	96.96	Open To Flow (1)
33	285.75	113.05	Shut-In(1)
64	1075.98	112.25	End Shut-In(1)
64	295.99	111.73	Open To Flow (2)
95	456.66	113.31	Shut-In(2)
130	1067.60	112.77	End Shut-In(2)
131	1610.63	112.88	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
315.00	OVMW 45%O 35% 20%M	4.61

**Gas Rates**

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

189.00	GMWO / 10%G 15%O 20%M 55%W	2.76
189.00	OVM / 5%M 15%O 80%W	2.76
315.00	W / 100%W	4.61









\* Recovery from multiple tests

Triobite Testing, Inc

Ref. No: 65059

Printed: 2022.09.25 @ 15:47:53

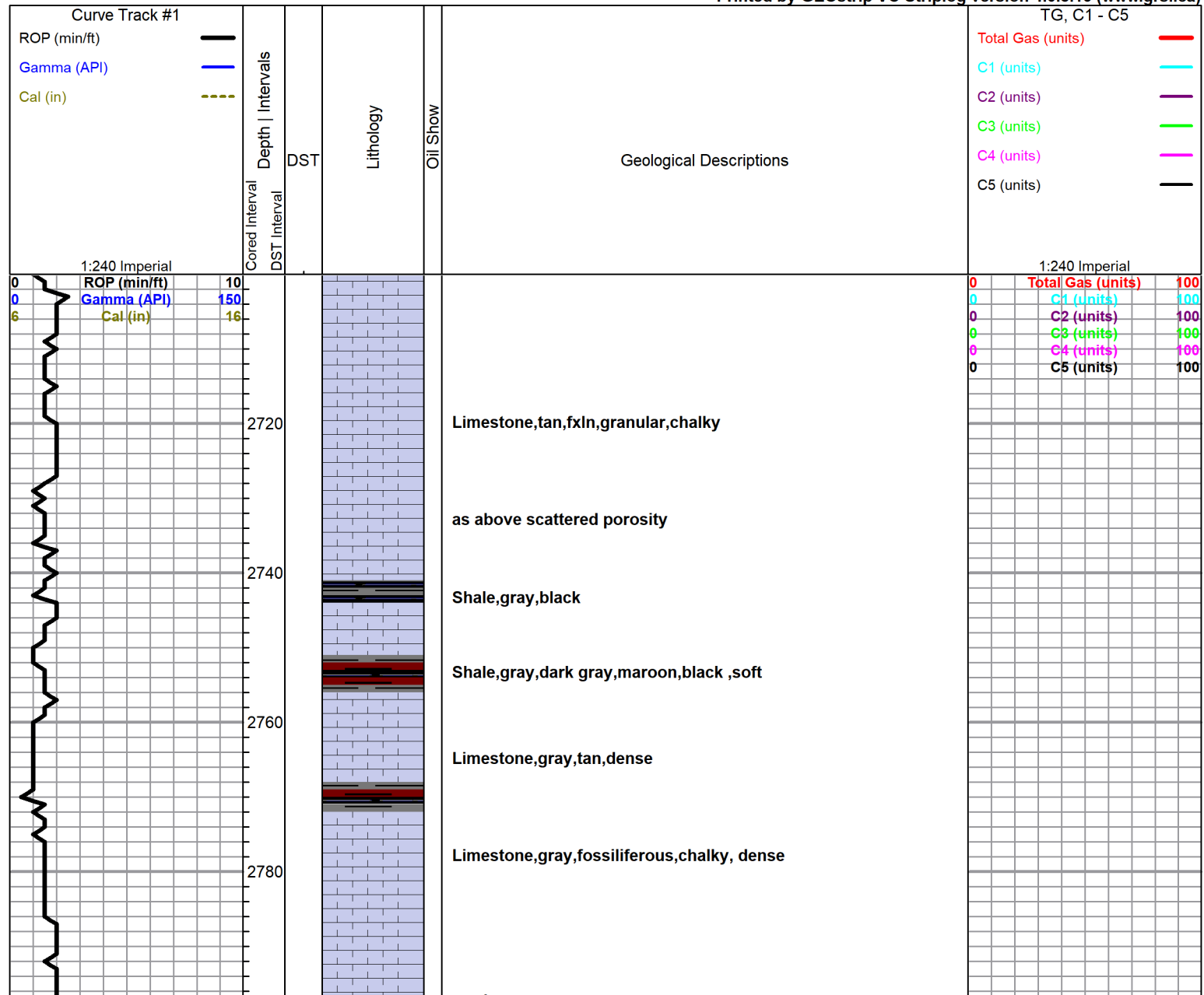
### ROCK TYPES

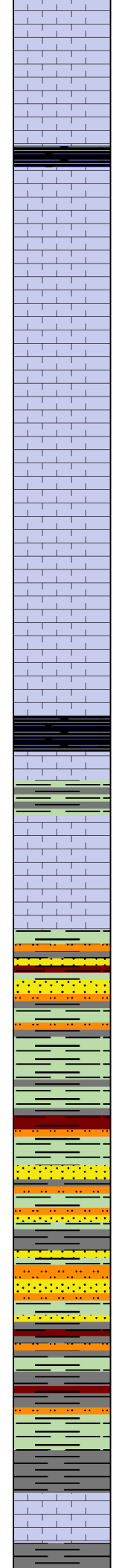
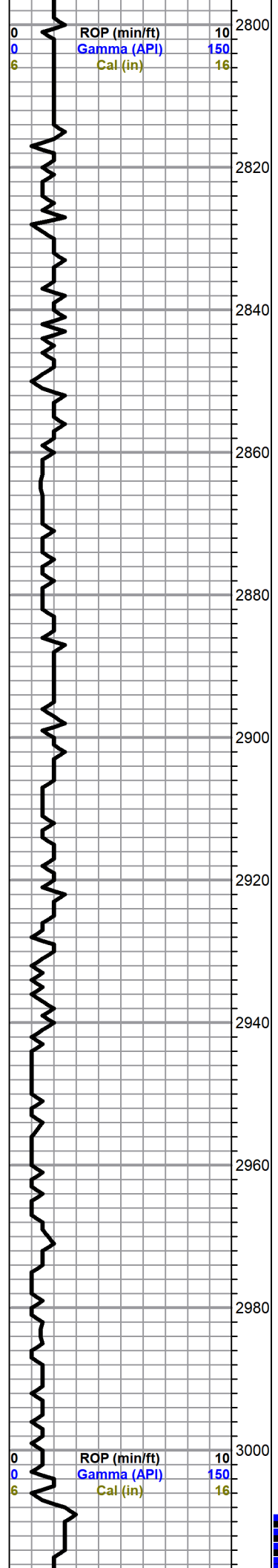
 Dolprim	 shale, grn	 Carbon Sh	 Ss
 Lmst fw7>	 shale, gry	 shale, red	 Sltst

### OTHER SYMBOLS

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

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





as above

**QUEEN HILL 2815(-978)**  
Shale,black,carbonaceous

Limestone,white,gray,fxln,foss.,chalky,poor visible porosity

Limestone,gray,white,fxln,few granular,subomodic,chalky,light brown and black stain, no free oil and questionable odor.

as above..no shows with gray and white,boney chert

abundant,gray,smoky gray,chert

**HEEBNER 2896(-1059)**  
Shale,black,carbonaceous

Limestone,tan,fxln,dense

**TORONTO 2912(-1075)**  
Limestone,white,gray,fxln,foss.,chalky,poor visible porosity.no shows

**DOUGLAS 2926(-1089)**  
Shale,gray,grayish green,rusty brown,silty

as above ,trace,sand, ,grayish green,very fine grain,micaeous,silty

as above

ditto

**BROWN LIME 3007(-1170)**  
Limestone,tan,fxln,cherty in part

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

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

# LANSING 3018(-1181)

Limestone,white,gray,cream,oolitic,chalky,brown spotty stain,show of free oil and faint odor

Limestone,white,gray,cream,fxln,slightly foss.,chalky,trace spotted stain,no free oil and no odor

as above

Limestone,white,gray,oolitic,sub oomoldic,fair oomoldic porosity,brown and golden brown stain,show of free oil and faint odor

Limestone,white,gray,oolitic,chalky,poor visible porosity,no shows

Limestone,white,tan,gray,oolitic,chalky in part,few dense,brown stain,show of free oil and faint odor

Limestone,tan,gray,fxln,sub oomoldic,scattered porosity,no shows

as above

Limestone,gray,tan,slightly cherty,with gray chert

Shale,black,carbonaceous

Limestone,tan,oomoldic,fair oomoldic porosity,few cherty,spotty brown stain,show of free oil and no odor

Limestone,white,cream,finely oolitic,chalky,fair porosity,brown and golden brown stain and saturation,show of free oil and faint odor

Limestone,white,oolitic,dense

Limestone,tan,gray,oomoldic,fair oomoldic porosity, no shows

Limestone,gray,white,chalky ,dense

Shale,black,gray

Limestone,gray,fxln,chalky,few cherty ,dense

DST#1 3010-3102

30-30-30-45

Blow,weak

Recovery,15'mud

BHP 126-127psi

FP 52-55,56-57 psi

HSH 1537-1446 psi

DST #2 3146-3220

45-30-45-60

Blow,Good 11.5 inches

2nd Open ,fair 7.75 inches

Recovery, 7' oil cut muddy water (15% oil,30% water,55% mud),126; muddy water

BHP 729-730 psi

FP 42-74,75-103

HSH 1615-1533 psi

0 Total Gas (units) 100

0 C1 (units) 100

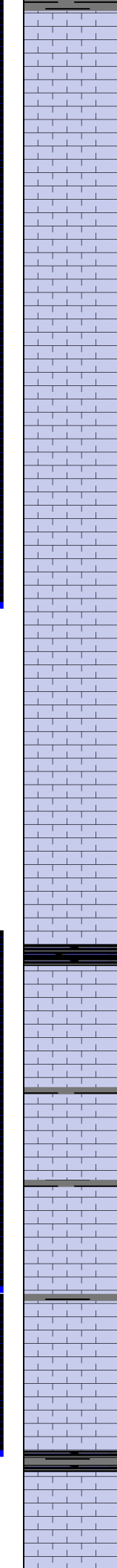
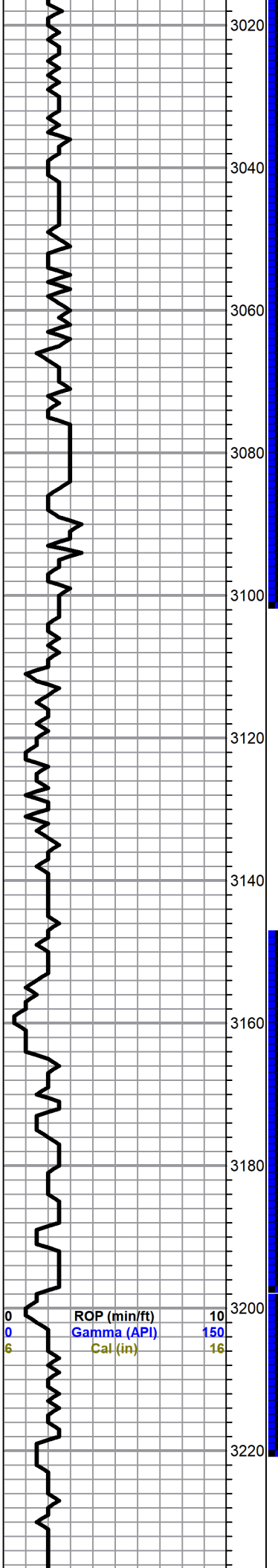
0 C2 (units) 100

0 C3 (units) 100

0 C4 (units) 100

0 C5 (units) 100

DST#3 3246-3299



Limestone,white,gray,cream,oolitic,chalky,brown spotty stain,show of free oil and faint odor

Limestone,white,gray,cream,fxln,slightly foss.,chalky,trace spotted stain,no free oil and no odor

as above

Limestone,white,gray,oolitic,sub oomoldic,fair oomoldic porosity,brown and golden brown stain,show of free oil and faint odor

Limestone,white,gray,oolitic,chalky,poor visible porosity,no shows

Limestone,white,tan,gray,oolitic,chalky in part,few dense,brown stain,show of free oil and faint odor

Limestone,tan,gray,fxln,sub oomoldic,scattered porosity,no shows

as above

Limestone,gray,tan,slightly cherty,with gray chert

Shale,black,carbonaceous

Limestone,tan,oomoldic,fair oomoldic porosity,few cherty,spotty brown stain,show of free oil and no odor

Limestone,white,cream,finely oolitic,chalky,fair porosity,brown and golden brown stain and saturation,show of free oil and faint odor

Limestone,white,oolitic,dense

Limestone,tan,gray,oomoldic,fair oomoldic porosity, no shows

Limestone,gray,white,chalky ,dense

Shale,black,gray

Limestone,gray,fxln,chalky,few cherty ,dense

DST#1 3010-3102

30-30-30-45

Blow,weak

Recovery,15'mud

BHP 126-127psi

FP 52-55,56-57 psi

HSH 1537-1446 psi

DST #2 3146-3220

45-30-45-60

Blow,Good 11.5 inches

2nd Open ,fair 7.75 inches

Recovery, 7' oil cut muddy water (15% oil,30% water,55% mud),126; muddy water

BHP 729-730 psi

FP 42-74,75-103

HSH 1615-1533 psi

0 Total Gas (units) 100

0 C1 (units) 100

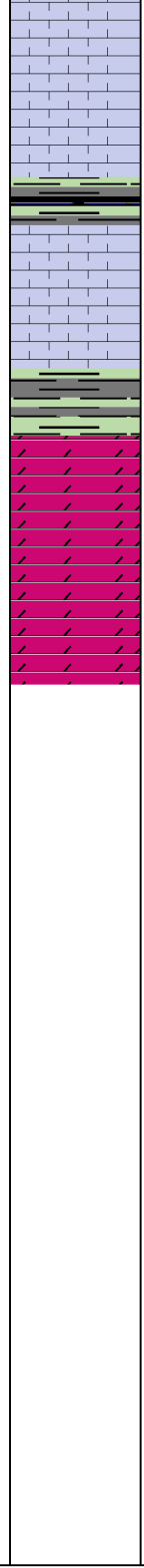
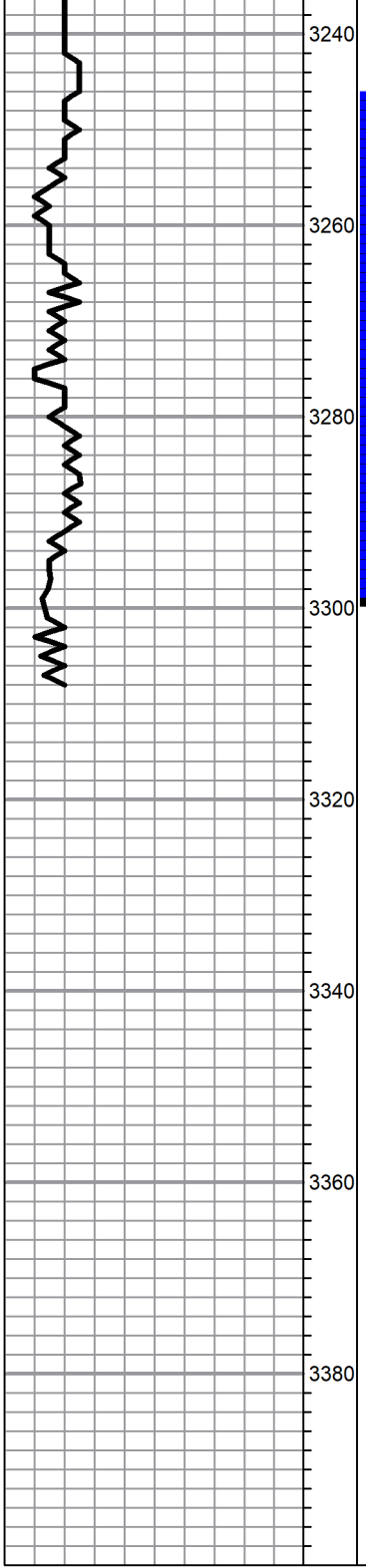
0 C2 (units) 100

0 C3 (units) 100

0 C4 (units) 100

0 C5 (units) 100

DST#3 3246-3299



as above

Shale,gray,green,black,soft

Limestone,cream,tan,dense,

**BASE KANSAS CITY 3276(-1439)**

Varied colored shale with trace,gray,yellow,oolitic opaque chert

**ARBUCKLE 3282(-1445)**

Dolomite,tan,pink,gray,fxln, cherty in part, poorly developed porosity,trace poor stain,no free oil and no odor

Dolomite ,tan,fine and medium crystalline,poor visible porosity, brown stain, show of free oil and faint odor

Dolomite,white,tan,fxln,sucrosic,fair pinpoint and intercrystalline porosity, light brown stain, show of free oil and fair odor

**ROTARY TOTAL DEPTH 3309(-1472)**

30-30-30-30

Blow,weak surface

2nd open ,no blow

Recovery, 5' clean oil,10'muddy oil(45% oil,55% mud)

BHP 1081-1052 psi

FP 37-62,40-42 psi

HSH 1621-1667 psi

DST #4 3291-3309

30-30-30-30

Blow,strong(bob 3 mins)

2nd open ,strong(bob 4 mins)

Recovery 315'oil cut

water (45% oil (??),35%

water,20% mud

189;oil and gas cut muddy water(10%

gas,15% oil,20% mud, 55% water)

189'oil cut muddy water(5% mud,15%

oil,80% water)

315' water

BHP 1076-1068 psi

FP 57-286,296-456psi

HSH 1642-1611 psi