



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1237818  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1237818

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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	Gatton 7-1
Doc ID	1237818

Tops

Name	Top	Datum
Heebner	3099	-1235
Toronto	3119	-1255
Douglas	3132	-1268
Brown Lime	3224	-1360
Lansing	3242	-1378
BKC	3460	-1596
Arbuckle	3512	-1648
TD	3525	-1661



Date 11/18/2014 District G.B. F.O. No. C42256  
 Company K&N Petroleum  
 Well Name & No. Gatton 7-1  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
 County Stafford State KS

Type Treatment: Amt. Type Fluid Sand Size Pounds of Sand  
 Bkdown \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_  
 Flush \_\_\_\_\_ Bbl./Gal. \_\_\_\_\_

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.

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. 320 Sp. \_\_\_\_\_ Twin \_\_\_\_\_  
 Auxiliary Equipment \_\_\_\_\_  
 Personnel Nathan Greg Jordan Josh  
 Auxiliary Tools \_\_\_\_\_  
 Plugging or Sealing Materials: Type \_\_\_\_\_ Gals. \_\_\_\_\_ lb.

Company Representative \_\_\_\_\_ ED \_\_\_\_\_ Treater \_\_\_\_\_ Nathan W.

TIME a.m./p.m.	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
11:00				On Location to plug. Rig running in drill pipe.
12:30				Mix 50sks 60/40poz 4%gel at 3503' Displace with 47bbbls with mud pump.
				Mix 50sks at 682'
				Mix 50sks at 372'
				Mix 30sks at 60' Circulated cement to surface.
3:45				Plug rat hole with 30sks.
3:50				Wash up.
				Thank You! TOTAL-210sks.
				Nathan W.



## DRILL STEM TEST REPORT

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

1105 Walnut  
Great Bend KS 67530

ATTN: Clint Musgrove

### **Gatton #7-1**

#### **7-21s-12w Stafford,KS**

Start Date: 2014.11.16 @ 03:50:00

End Date: 2014.11.16 @ 10:49:30

Job Ticket #: 61885                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.18 @ 11:58:45



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

K & N Petroleum Inc

**7-21s-12w Stafford,KS**

1105 Walnut  
Great Bend KS 67530

**Gatton #7-1**

Job Ticket: 61885

**DST#: 1**

ATTN: Clint Musgrove

Test Start: 2014.11.16 @ 03:50:00

## GENERAL INFORMATION:

Formation: **LKC A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:44:30

Time Test Ended: 10:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: S5

**Interval: 3244.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Reference Elevations: 1864.00 ft (KB)

Total Depth: 3310.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6666**

**Inside**

Press@RunDepth: 75.26 psig @ 3306.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.11.16

End Date: 2014.11.16

Last Calib.: 2014.11.16

Start Time: 03:51:00

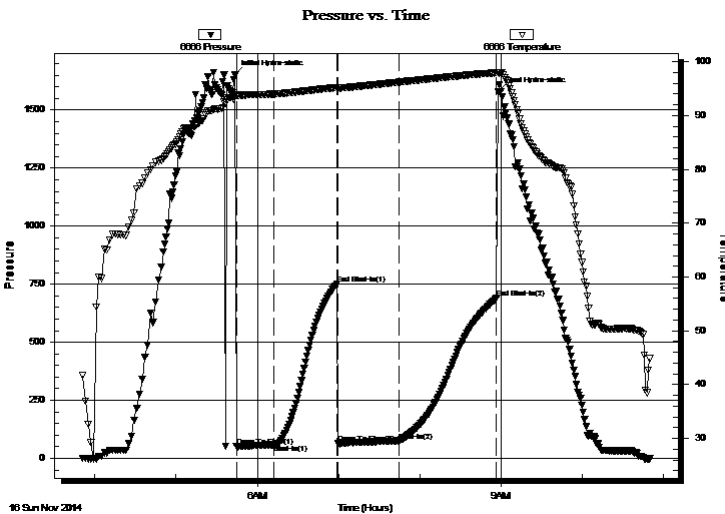
End Time: 10:49:30

Time On Btm: 2014.11.16 @ 05:43:30

Time Off Btm: 2014.11.16 @ 08:57:30

**TEST COMMENT:** IFP-30 Minutes-Weak blow built bottom of bucket in 22 minutes  
ISIP-45 Minutes-No blow back  
FFP-45Minutes-Fair blow built bottom of bucket in 10 minutes  
FSIP-60 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.20	93.81	Initial Hydro-static
1	53.29	93.70	Open To Flow (1)
29	58.76	94.02	Shut-In(1)
75	750.72	95.23	End Shut-In(1)
76	63.98	95.10	Open To Flow (2)
121	75.26	96.23	Shut-In(2)
193	689.46	97.99	End Shut-In(2)
194	1579.29	98.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud spotoil	0.42
60.00	mud	0.84

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K & N Petroleum Inc

**7-21s-12w Stafford,KS**

1105 Walnut  
Great Bend KS 67530

**Gatton #7-1**

Job Ticket: 61885

**DST#: 1**

ATTN: Clint Musgrove

Test Start: 2014.11.16 @ 03:50:00

## Tool Information

Drill Pipe:	Length: 3255.00 ft	Diameter: 3.80 inches	Volume: 45.66 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 45.66 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3244.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	66.00 ft				
Tool Length:	86.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3229.00	
Hydraulic tool	5.00			3234.00	
Packer	5.00			3239.00	20.00 Bottom Of Top Packer
Packer	5.00			3244.00	
Change Over Sub	0.75			3244.75	
Drill Pipe	31.50			3276.25	
Change Over Sub	0.75			3277.00	
Anchor	28.00			3305.00	
Recorder	1.00	6666	Inside	3306.00	
Recorder	1.00	8400	Outside	3307.00	
Bullnose	3.00			3310.00	66.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

K & N Petroleum Inc

**7-21s-12w Stafford,KS**

1105 Walnut  
Great Bend KS 67530

**Gatton #7-1**

Job Ticket: 61885

**DST#: 1**

ATTN: Clint Musgrove

Test Start: 2014.11.16 @ 03:50:00

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mud spotoil	0.421
60.00	mud	0.842

Total Length: 90.00 ft      Total Volume: 1.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

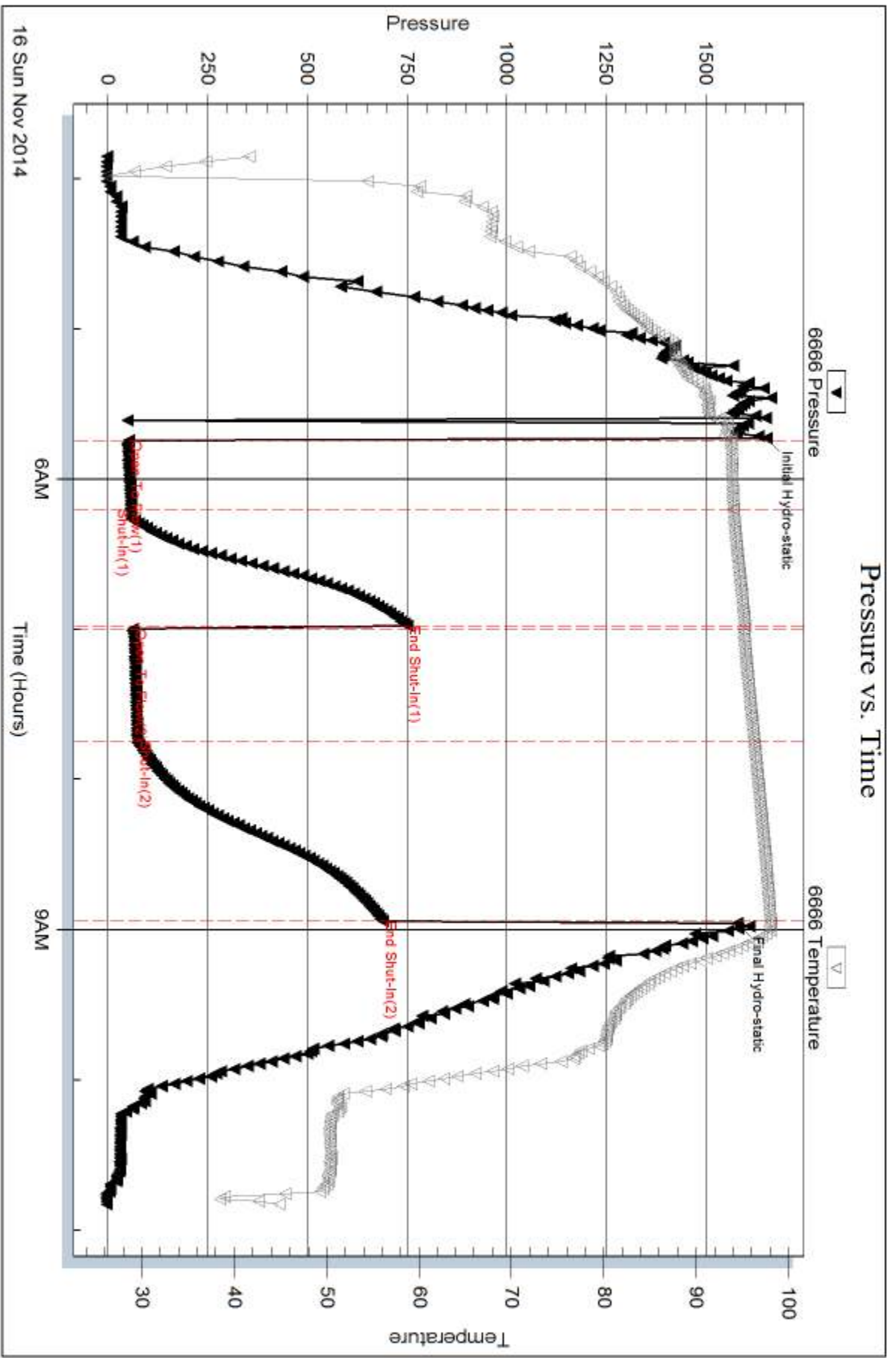
Serial #: 6666

Inside

K & N Petroleum Inc

Gatton #7-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 61885

Printed: 2014.11.18 @ 11:58:46



## DRILL STEM TEST REPORT

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

1105 Walnut  
Great Bend KS 67530

ATTN: Clint Musgrove

### **Gatton #7-1**

#### **7-21s-12w Stafford,KS**

Start Date: 2014.11.16 @ 22:08:00

End Date: 2014.11.17 @ 04:31:12

Job Ticket #: 61886                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.18 @ 11:58:00



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

K & N Petroleum Inc

**7-21s-12w Stafford,KS**

1105 Walnut  
Great Bend KS 67530

**Gatton #7-1**

Job Ticket: 61886

**DST#: 2**

ATTN: Clint Musgrove

Test Start: 2014.11.16 @ 22:08:00

## GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:02:25

Time Test Ended: 04:31:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Jared Scheck

Unit No: S5

**Interval: 3365.00 ft (KB) To 3396.00 ft (KB) (TVD)**

Reference Elevations: 1864.00 ft (KB)

Total Depth: 3396.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8400 Inside**

Press@RunDepth: 88.52 psig @ 3392.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.11.16

End Date: 2014.11.17

Last Calib.: 2014.11.17

Start Time: 22:21:13

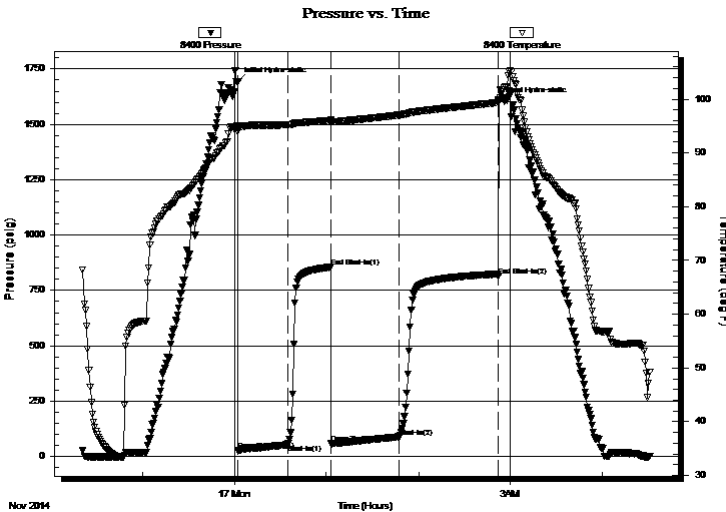
End Time: 04:31:11

Time On Btm: 2014.11.17 @ 00:02:23

Time Off Btm: 2014.11.17 @ 02:52:14

**TEST COMMENT:** IFP-30 Minutes-Weak blow built 10" into water in 30 minutes  
ISIP-30 Minutes-No blow back  
FFP-45 Minutes-Weak blow built 11" into bucket in 45 minutes  
FSIP-60 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1692.93	95.05	Initial Hydro-static
1	26.23	94.02	Open To Flow (1)
33	52.82	95.24	Shut-In(1)
61	855.07	96.07	End Shut-In(1)
61	58.06	95.74	Open To Flow (2)
105	88.52	97.03	Shut-In(2)
170	815.93	99.37	End Shut-In(2)
170	1602.08	99.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	muddy water	1.68

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

K & N Petroleum Inc

**7-21s-12w Stafford,KS**

1105 Walnut  
Great Bend KS 67530

**Gatton #7-1**

Job Ticket: 61886

**DST#: 2**

ATTN: Clint Musgrove

Test Start: 2014.11.16 @ 22:08:00

## GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:02:25

Time Test Ended: 04:31:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Jared Scheck

Unit No: S5

**Interval: 3365.00 ft (KB) To 3396.00 ft (KB) (TVD)**

Reference Elevations: 1864.00 ft (KB)

Total Depth: 3396.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6666 Outside**

Press@RunDepth: 821.91 psig @ 3393.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.11.16

End Date: 2014.11.17

Last Calib.: 2014.11.17

Start Time: 22:21:00

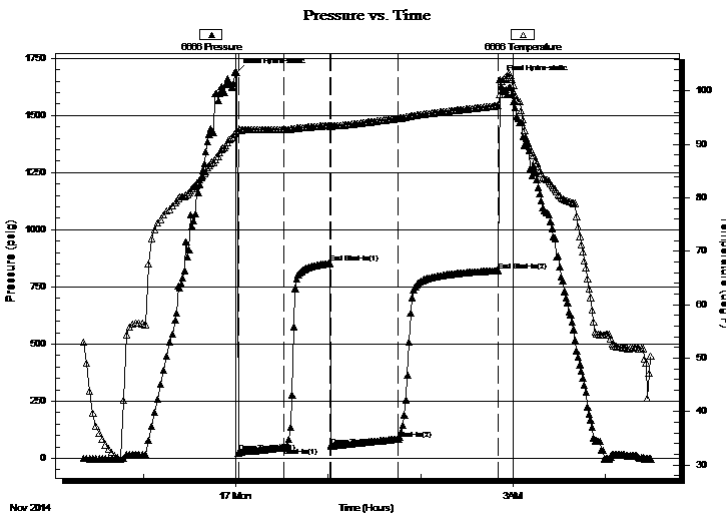
End Time: 04:30:00

Time On Btm: 2014.11.17 @ 00:00:30

Time Off Btm: 2014.11.17 @ 02:51:30

**TEST COMMENT:** IFP-30 Minutes-Weak blow built 10" into water in 30 minutes  
ISIP-30 Minutes-No blow back  
FFP-45 Minutes-Weak blow built 11" into bucket in 45 minutes  
FSIP-60 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.28	92.67	Initial Hydro-static
1	25.03	92.58	Open To Flow (1)
31	47.92	92.77	Shut-In(1)
61	853.06	93.58	End Shut-In(1)
62	54.46	93.43	Open To Flow (2)
105	85.57	94.87	Shut-In(2)
170	821.91	97.25	End Shut-In(2)
171	1657.61	99.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	muddy water	1.68

\* 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

**7-21s-12w Stafford,KS**

1105 Walnut  
Great Bend KS 67530

**Gatton #7-1**

Job Ticket: 61886

**DST#: 2**

ATTN: Clint Musgrove

Test Start: 2014.11.16 @ 22:08:00

## Tool Information

Drill Pipe:	Length: 3351.00 ft	Diameter: 3.80 inches	Volume: 47.01 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 47.01 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3365.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	31.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3350.00	
Hydraulic tool	5.00			3355.00	
Packer	5.00			3360.00	20.00 Bottom Of Top Packer
Packer	5.00			3365.00	
Anchor	26.00			3391.00	
Recorder	1.00	8400	Inside	3392.00	
Recorder	1.00	6666	Outside	3393.00	
Bullnose	3.00			3396.00	31.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

K & N Petroleum Inc

**7-21s-12w Stafford,KS**

1105 Walnut  
Great Bend KS 67530

**Gatton #7-1**

Job Ticket: 61886

**DST#: 2**

ATTN: Clint Musgrove

Test Start: 2014.11.16 @ 22:08:00

### 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:

20000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	muddy water	1.683

Total Length: 120.00 ft      Total Volume: 1.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rW .25 @ 60degree

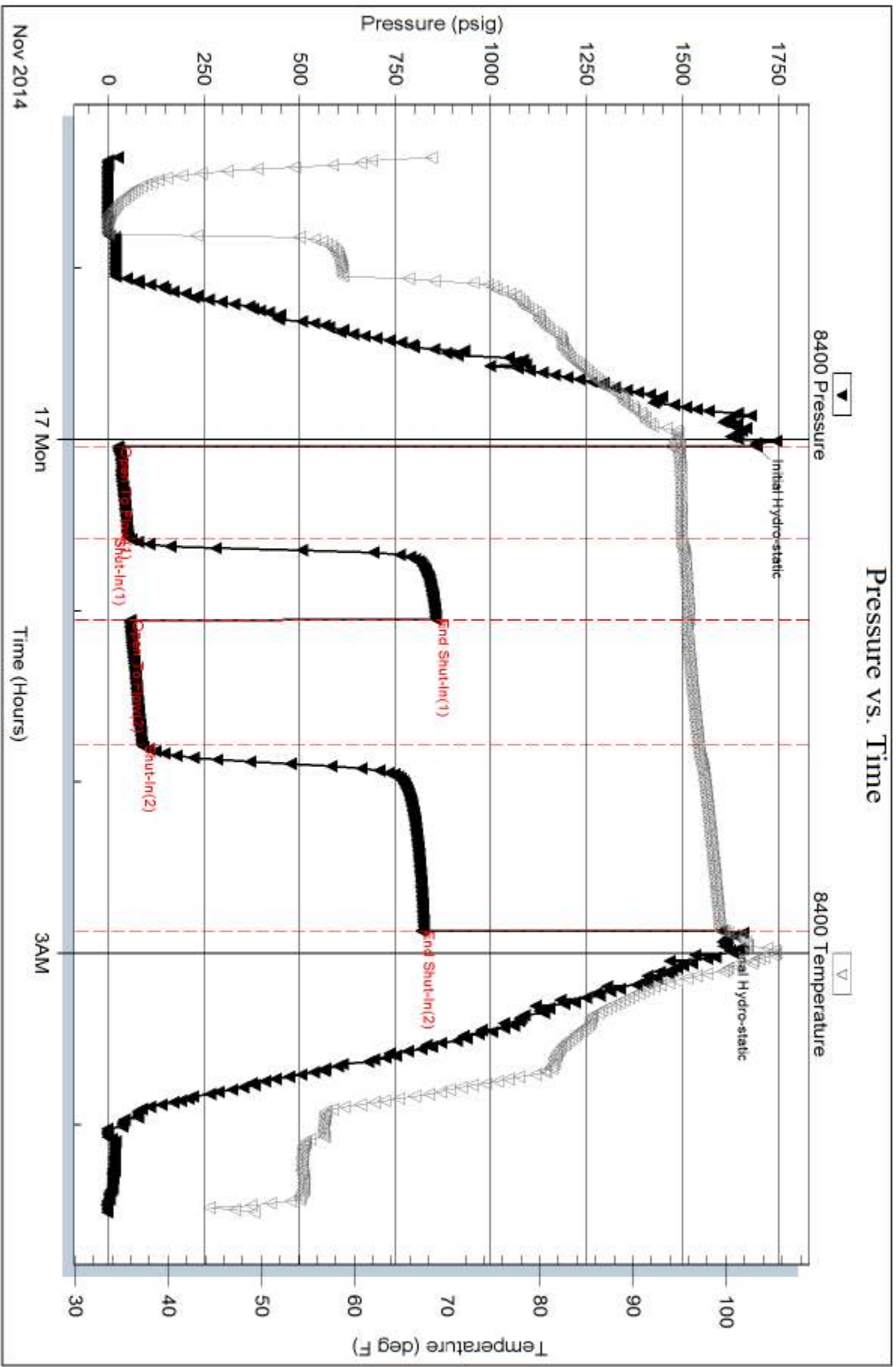
Serial #: 8400

Inside

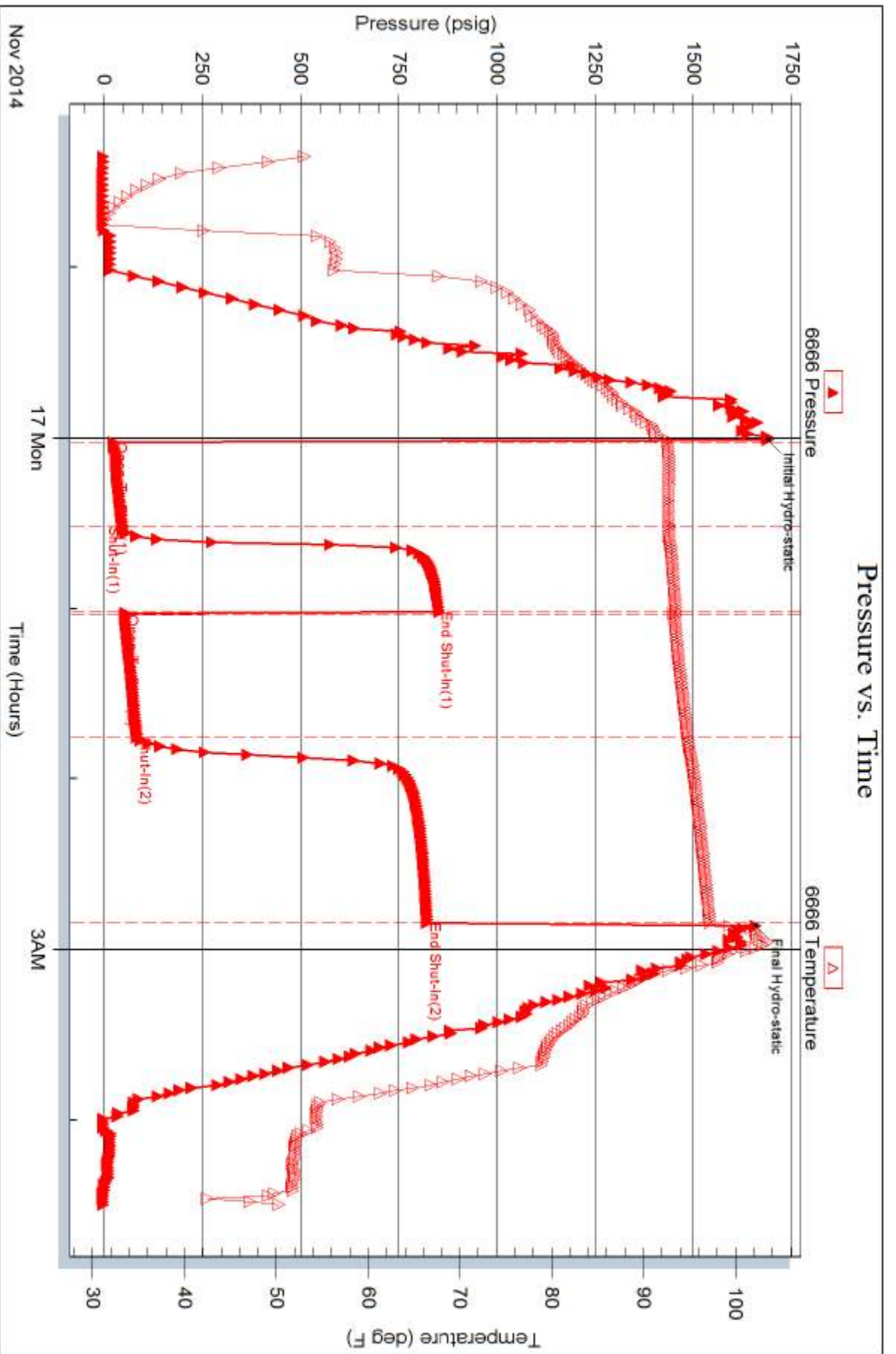
K & N Petroleum Inc

Gatton #7-1

DST Test Number: 2









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61885

Well Name & No. Gaillon # 7-1 Test No. 1 Date 11-16-2014  
 Company K&N Petroleum Inc Elevation 1864 KB 1856 GL  
 Address 1105 Walnut Great Bend KS 67530  
 Co. Rep / Geo. Clint Musgrave Rig Saxmund Drilling Rigs # 6  
 Location: Sec. 7 Twp. 21 Rge. 12 Co. Stafford State KS

Interval Tested 3244-3310 Zone Tested hansky A-F  
 Anchor Length 66 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.4  
 Top Packer Depth 3239 Drill Collars Run \_\_\_\_\_ Vis 58  
 Bottom Packer Depth 3244 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3310 Chlorides 6000 ppm System LCM \_\_\_\_\_

Blow Description IFP - weak Blow Built Bottom of Bucket in 22 minutes  
ISIP - NO Blow Back  
FFP - Fair Blow Built Bottom of Bucket in 10 minutes  
FSIP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>mud sp oil</u>				
<u>60</u>	<u>mud</u>				
____	____				
____	____				
____	____				

Rec Total 90 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1657  Test 1150 T-On Location 2:00 A  
 (B) First Initial Flow 53  Jars \_\_\_\_\_ T-Started 3:50 A  
 (C) First Final Flow 58  Safety Joint \_\_\_\_\_ T-Open 5:50 A  
 (D) Initial Shut-In 750  Circ Sub \_\_\_\_\_ T-Pulled 8:50 A  
 (E) Second Initial Flow 63  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 75  Mileage 30 RT Great Bend 46.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 689  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1579  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1196.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1196.50

Approved By \_\_\_\_\_ 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.



**TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

# Test Ticket

NO. **61886**

Well Name & No. Gatton #7-1 Test No. 2 Date 11-16-2014  
 Company H & N Petroleum Inc Elevation 1864 KB 1856 GL  
 Address 1105 Walnut Great Bend KS 67530  
 Co. Rep / Geo. Clint M. Dsgrove Rig Southwind Drilling Rig #6  
 Location: Sec. 7 Twp. 21 Rge. 12 Co. Stafford State KS

Interval Tested 3365 - 3396 Zone Tested Lansing H zone  
 Anchor Length 31 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 3360 Drill Collars Run \_\_\_\_\_ Vis 47  
 Bottom Packer Depth 3365 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3396 Chlorides 11200 ppm System LCM 1

Blow Description IJP - Weak Blow Built 2 inches from Bottom of Bucket 10 inches  
ISIP - NO Blow Back  
FFP - 11 inches into Bucket in 45 minutes  
FSIP - NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>mud water</u>				
_____	_____				
_____	_____				
_____	_____				
_____	_____				

Rec Total 125 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW 25 @ 60 ° F Chlorides 20,000 ppm

(A) Initial Hydrostatic 1692  Test 1150 T-On Location 9:25 pm  
 (B) First Initial Flow 26  Jars \_\_\_\_\_ T-Started 10:20 pm  
 (C) First Final Flow 52  Safety Joint \_\_\_\_\_ T-Open 11:58 pm  
 (D) Initial Shut-In 855  Circ Sub \_\_\_\_\_ T-Pulled 2:43  
 (E) Second Initial Flow 58  Hourly Standby \_\_\_\_\_ T-Out 4:31  
 (F) Second Final Flow 88  Mileage 30 RT Great Bend Comments Chlorides 20,000  
 (G) Final Shut-In 815  Sampler 46.50  
 (H) Final Hydrostatic 1602  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Copies \_\_\_\_\_  
 Final Shut-In 60 Sub Total 0  
 Total 1196.50  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1196.50

Approved By \_\_\_\_\_ 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.