



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1237829
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: _____



1237829

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
--	---

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ 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: <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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	Norman Klepper 1
Doc ID	1237829

All Electric Logs Run

CNL/CDL
DIL
MEL
Sonic

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	Norman Klepper 1
Doc ID	1237829

Tops

Name	Top	Datum
Anhydrite	578	+1241
Base Anhydrite	600	+1219
Heebner	3006	-1187
Toronto	3022	-1203
Douglas	3038	-1219
Brown Lime	3140	-1321
Lansing	3152	-1333
Base KC	3382	-1563
Arbuckle	3400	-1581
Total Depth	3474	-1655

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	Norman Klepper 1
Doc ID	1237829

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	3418-22	500 gal Mod 202	3418-22
4	3400-04	250 gal 28%	
4	3371-76	250 gal 28%	
4	3314-20	250 gal 28%	
4	3154-58	250 gal 28%	
	BP @ 3395	Bridge Plug	3395



DRILL STEM TEST REPORT

Prepared For: **K&N Petroleum**
1105 Walnut
Great Bend KS 67530

ATTN: Kurt Talbolt

Norman Klepper #1

36-20s-12w Barton,KS

Start Date: 2014.11.25 @ 06:40:00

End Date: 2014.11.25 @ 12:14:30

Job Ticket #: 60297 DST #: 1

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

Printed: 2014.11.28 @ 15:35:03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&N Petroleum
1105 Walnut
Great Bend KS 67530
ATTN: Kurt Talbolt

36-20s-12w Barton,KS

Norman Klepper #1

Job Ticket: 60297

DST#: 1

Test Start: 2014.11.25 @ 06:40:00

GENERAL INFORMATION:

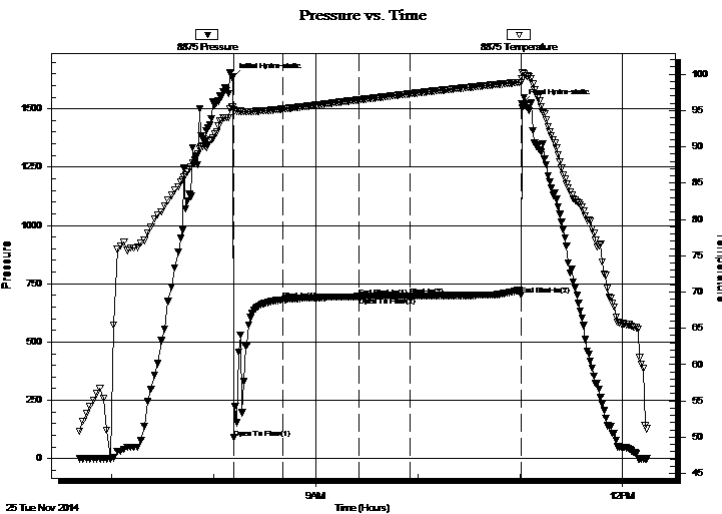
Formation: **LKC A-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:11:30
 Time Test Ended: 12:14:30
 Interval: **3147.00 ft (KB) To 3240.00 ft (KB) (TVD)**
 Total Depth: 3240.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Reference Elevations: 1819.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875

Outside

Press@RunDepth: 698.00 psig @ 3235.11 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.11.25 End Date: 2014.11.25 Last Calib.: 2014.11.25
 Start Time: 06:41:00 End Time: 12:14:30 Time On Btm: 2014.11.25 @ 08:11:00
 Time Off Btm: 2014.11.25 @ 11:01:00

TEST COMMENT: IFP 30 min. Good blow built to 9"
 ISI 45 min. No blow back.
 FFP 30 min. Dead very weak blow died.
 FSI60 min.No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1635.87	95.48	Initial Hydro-static
1	89.24	95.07	Open To Flow (1)
30	681.53	95.20	Shut-In(1)
74	694.91	96.45	End Shut-In(1)
75	694.89	96.46	Open To Flow (2)
105	698.00	97.29	Shut-In(2)
170	702.78	98.88	End Shut-In(2)
170	1523.70	99.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100%	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&N Petroleum
1105 Walnut
Great Bend KS 67530
ATTN: Kurt Talbolt

36-20s-12w Barton,KS

Norman Klepper #1

Job Ticket: 60297 **DST#: 1**
Test Start: 2014.11.25 @ 06:40:00

GENERAL INFORMATION:

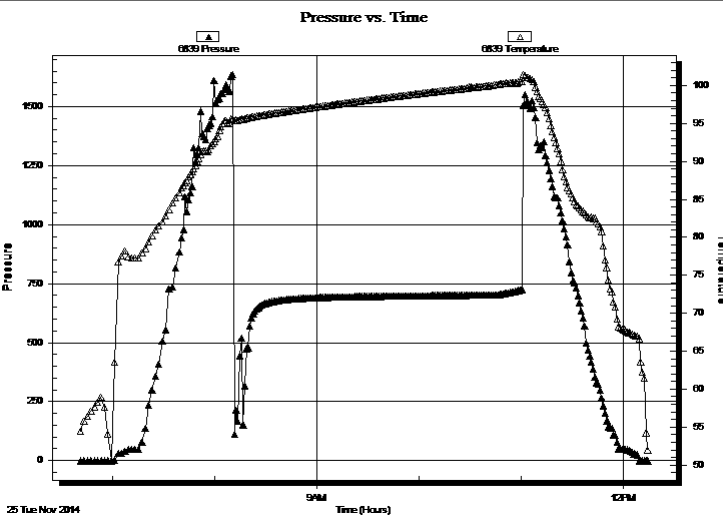
Formation: **LKC A-F**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 08:11:30 Tester: Dustin Ellis
Time Test Ended: 12:14:30 Unit No: S2
Interval: **3147.00 ft (KB) To 3240.00 ft (KB) (TVD)** Reference Elevations: 1819.00 ft (KB)
Total Depth: 3240.00 ft (KB) (TVD) 1811.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6839

Inside

Press@RunDepth: psig @ 3235.11 ft (KB)	Capacity: 5000.00 psig
Start Date: 2014.11.25 End Date: 2014.11.25	Last Calib.: 2014.11.25
Start Time: 06:41:00 End Time: 12:14:30	Time On Btm: Time Off Btm:

TEST COMMENT: IFP 30 min. Good blow built to 9"
ISI 45 min. No blow back.
FFP 30 min. Dead very weak blow died.
FSI60 min.No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud 100%	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&N Petroleum

36-20s-12w Barton,KS

1105 Walnut
Great Bend KS 67530

Norman Klepper #1

Job Ticket: 60297

DST#: 1

ATTN: Kurt Talbolt

Test Start: 2014.11.25 @ 06:40:00

Tool Information

Drill Pipe:	Length: 3138.00 ft	Diameter: 3.80 inches	Volume: 44.02 bbl	Tool Weight: 2000.00 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: 55000.00 lb
			<u>Total Volume: 44.02 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3147.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.11 ft			
Tool Length:	113.11 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			3132.00	
Hydraulic tool	5.00			3137.00	
Top Packer	5.00			3142.00	
Packer	5.00			3147.00	20.00 Bottom Of Top Packer
Anchor	6.00			3153.00	
Change Over Sub	0.75			3153.75	
Drill Pipe	62.61			3216.36	
Change Over Sub	0.75			3217.11	
Anchor	18.00			3235.11	
Recorder	0.00	6839	Inside	3235.11	
Recorder	0.00	8875	Outside	3235.11	
Bull Plug	5.00			3240.11	93.11 Anchor Tool

Total Tool Length: 113.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&N Petroleum

36-20s-12w Barton,KS

1105 Walnut
Great Bend KS 67530

Norman Klepper #1

Job Ticket: 60297

DST#: 1

ATTN: Kurt Talbolt

Test Start: 2014.11.25 @ 06:40:00

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud 100%	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

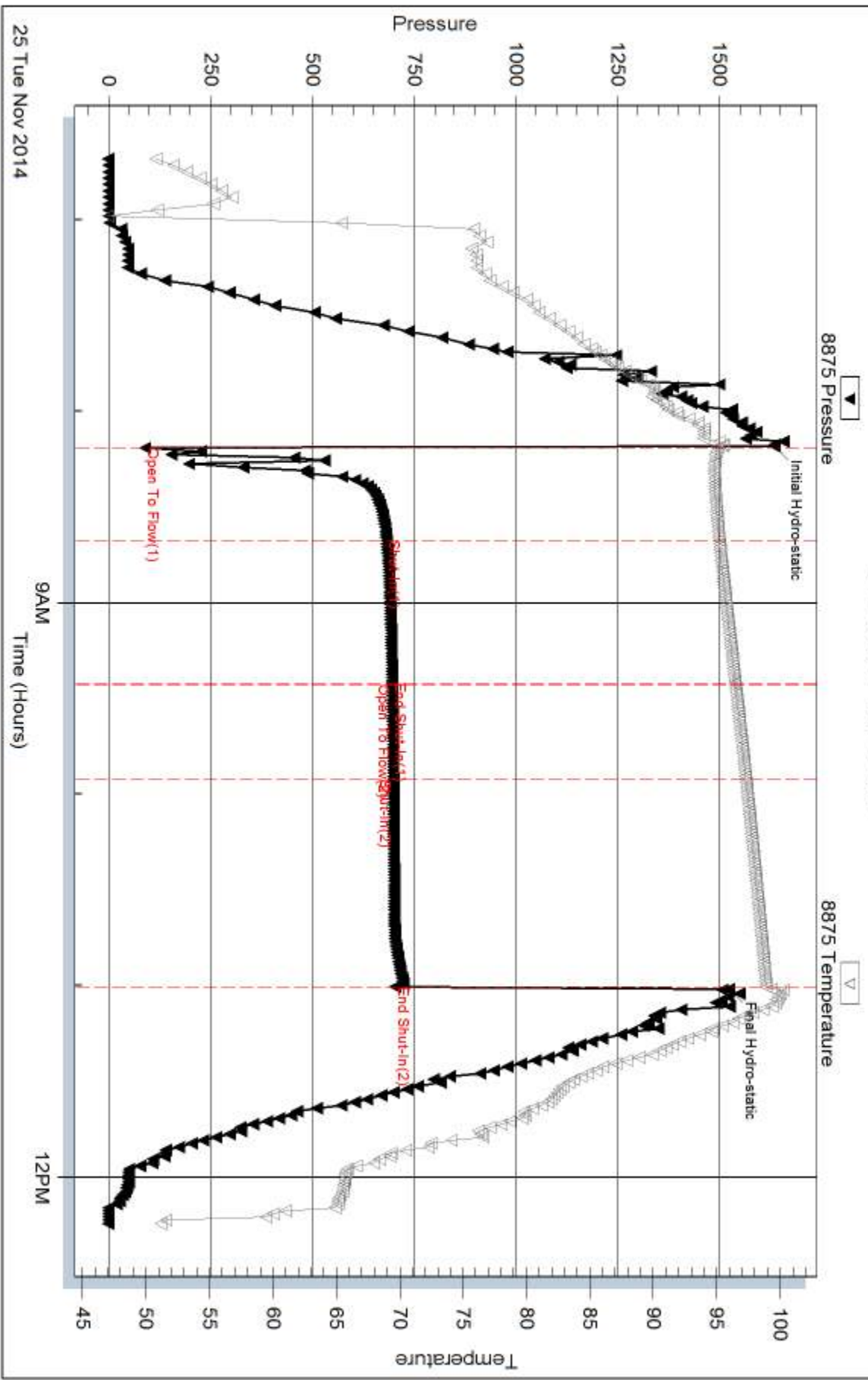
Serial #: 8875

Outside K&N Petroleum

Norman Klepper #1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 60297

Printed: 2014, 11, 28 @ 15:35:04

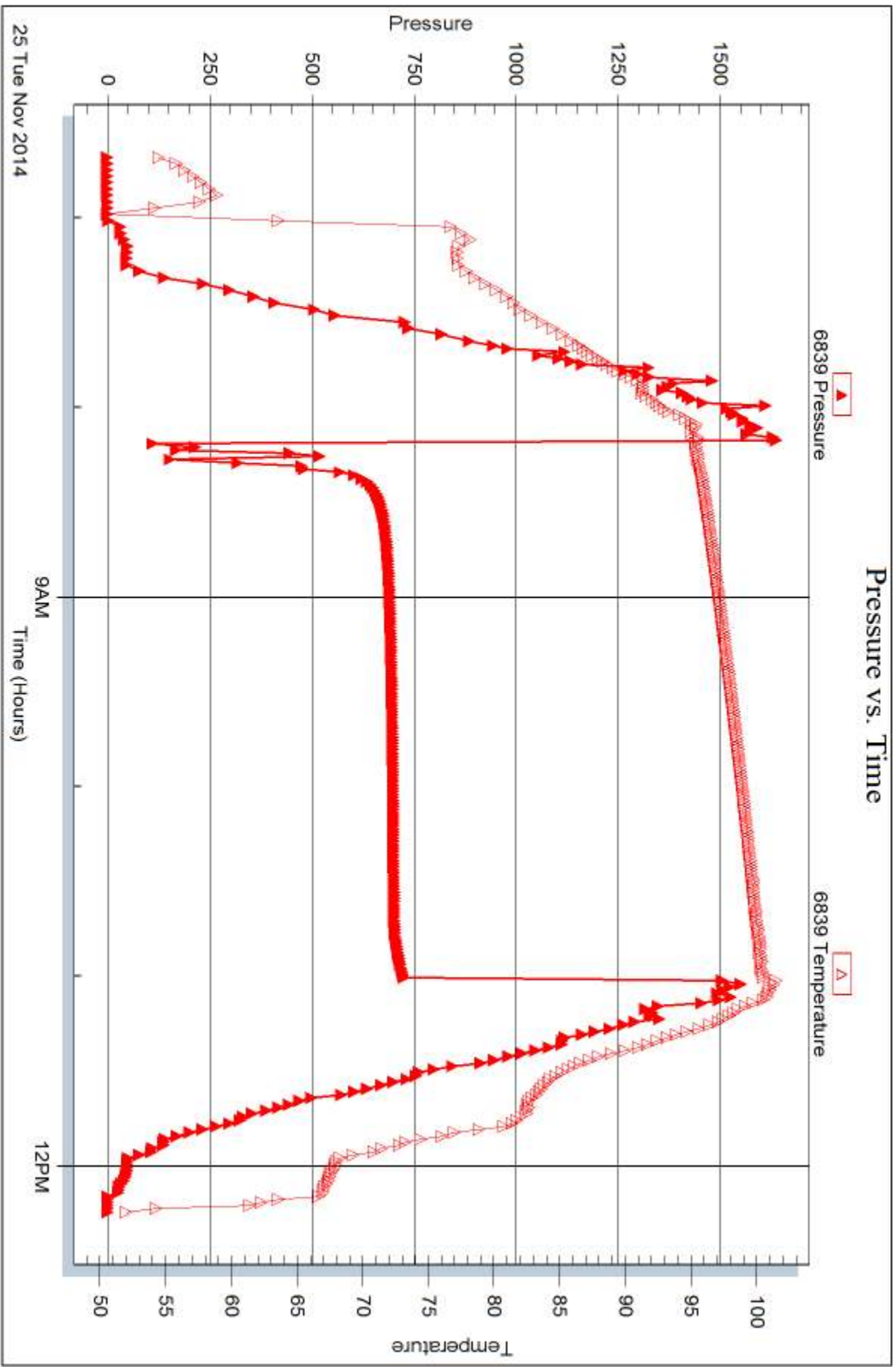
Serial #: 6839

Inside

K&N Petroleum

Norman Klepper #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 60297

Printed: 2014.11.28 @ 15:35:04



DRILL STEM TEST REPORT

Prepared For: **K&N Petroleum**
1105 Walnut
Great Bend KS 67530

ATTN: Kurt Talbolt

Norman Klepper #1

36-20s-12w Barton,KS

Start Date: 2014.11.26 @ 05:08:00

End Date: 2014.11.26 @ 11:04:30

Job Ticket #: 60298 DST #: 2

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

Printed: 2014.11.28 @ 15:33:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&N Petroleum
1105 Walnut
Great Bend KS 67530
ATTN: Kurt Talbolt

36-20s-12w Barton,KS

Norman Klepper #1

Job Ticket: 60298 **DST#: 2**
Test Start: 2014.11.26 @ 05:08:00

GENERAL INFORMATION:

Formation: **Lower LKC**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 06:28:00
 Tester: Dustin Ellis
 Time Test Ended: 11:04:30
 Unit No: S21
 Interval: **3293.00 ft (KB) To 3388.00 ft (KB) (TVD)**
 Reference Elevations: 1819.00 ft (KB)
 Total Depth: 3388.00 ft (KB) (TVD) 1811.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

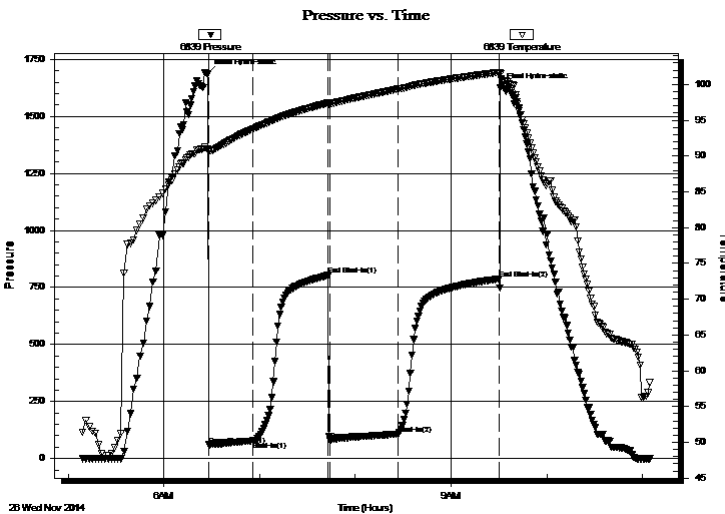
Serial #: 6839

Inside

Press@RunDepth: 107.76 psig @ 3383.11 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.11.26 End Date: 2014.11.26 Last Calib.: 2014.11.26
 Start Time: 05:09:00 End Time: 11:04:30 Time On Btm: 2014.11.26 @ 06:27:30
 Time Off Btm: 2014.11.26 @ 09:31:00

TEST COMMENT: IFP 30 min. Fair blow, BOB in 9 min.
 ISI 45 min. No blow back
 FFP 45 min. BOB in 5 min.
 FSI 60 min. No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.13	91.02	Initial Hydro-static
1	60.09	90.63	Open To Flow (1)
28	77.92	93.76	Shut-In(1)
76	802.95	97.41	End Shut-In(1)
77	80.48	97.30	Open To Flow (2)
120	107.76	99.35	Shut-In(2)
183	787.93	101.69	End Shut-In(2)
184	1625.22	101.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	VGOCM Gas 50% Oil 20% Mud 30%	1.96
0.00	252' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K&N Petroleum
 1105 Walnut
 Great Bend KS 67530
 ATTN: Kurt Talbolt

36-20s-12w Barton,KS

Norman Klepper #1

Job Ticket: 60298 **DST#: 2**
 Test Start: 2014.11.26 @ 05:08:00

GENERAL INFORMATION:

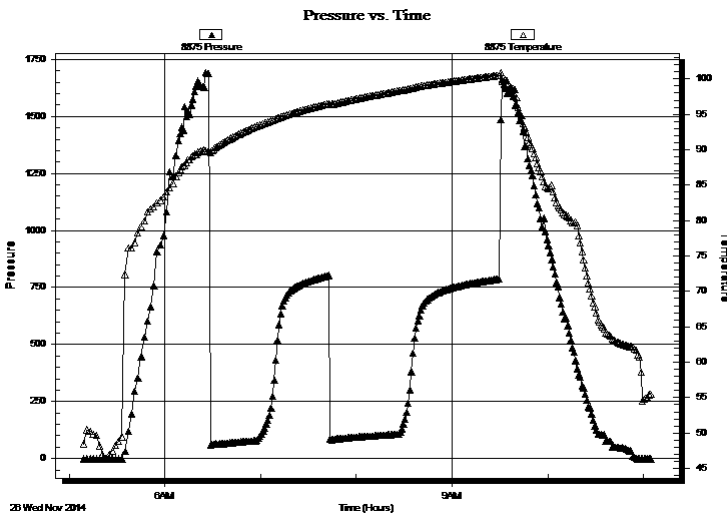
Formation: **Lower LKC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:28:00
 Time Test Ended: 11:04:30
 Interval: **3293.00 ft (KB) To 3388.00 ft (KB) (TVD)**
 Total Depth: 3388.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S21
 Reference Elevations: 1819.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8875 Outside

Press@RunDepth: psig @ 3383.11 ft (KB) Capacity: psig
 Start Date: 2014.11.26 End Date: 2014.11.26 Last Calib.: 1899.12.30
 Start Time: 05:09:00 End Time: 11:04:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP 30 min. Fair blow, BOB in 9 min.
 ISI 45 min. No blow back
 FFP 45 min. BOB in 5 min.
 FSI 60 min. No blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
140.00	VGOCM Gas 50% Oil 20% Mud 30%	1.96
0.00	252' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&N Petroleum

36-20s-12w Barton,KS

1105 Walnut
Great Bend KS 67530

Norman Klepper #1

Job Ticket: 60298

DST#: 2

ATTN: Kurt Talbolt

Test Start: 2014.11.26 @ 05:08:00

Tool Information

Drill Pipe:	Length: 3288.00 ft	Diameter: 3.80 inches	Volume: 46.12 bbl	Tool Weight: 2000.00 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: 50000.00 lb
			<u>Total Volume: 46.12 bbl</u>	Tool Chased 48000.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3293.00 ft			Final 0.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.11 ft			
Tool Length:	115.11 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3278.00	
Hydraulic tool	5.00			3283.00	
Top Packer	5.00			3288.00	
Packer	5.00			3293.00	20.00 Bottom Of Top Packer
Anchor	6.00			3299.00	
Change Over Sub	0.75			3299.75	
Drill Pipe	62.61			3362.36	
Change Over Sub	0.75			3363.11	
Anchor	20.00			3383.11	
Recorder	0.00	6839	Inside	3383.11	
Recorder	0.00	8875	Outside	3383.11	
Bull Plug	5.00			3388.11	95.11 Anchor Tool

Total Tool Length: 115.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&N Petroleum

36-20s-12w Barton,KS

1105 Walnut
Great Bend KS 67530

Norman Klepper #1

Job Ticket: 60298

DST#: 2

ATTN: Kurt Talbolt

Test Start: 2014.11.26 @ 05:08:00

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:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
140.00	VGOCM Gas 50% Oil 20% Mud 30%	1.964
0.00	252' GIP	0.000

Total Length: 140.00 ft Total Volume: 1.964 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

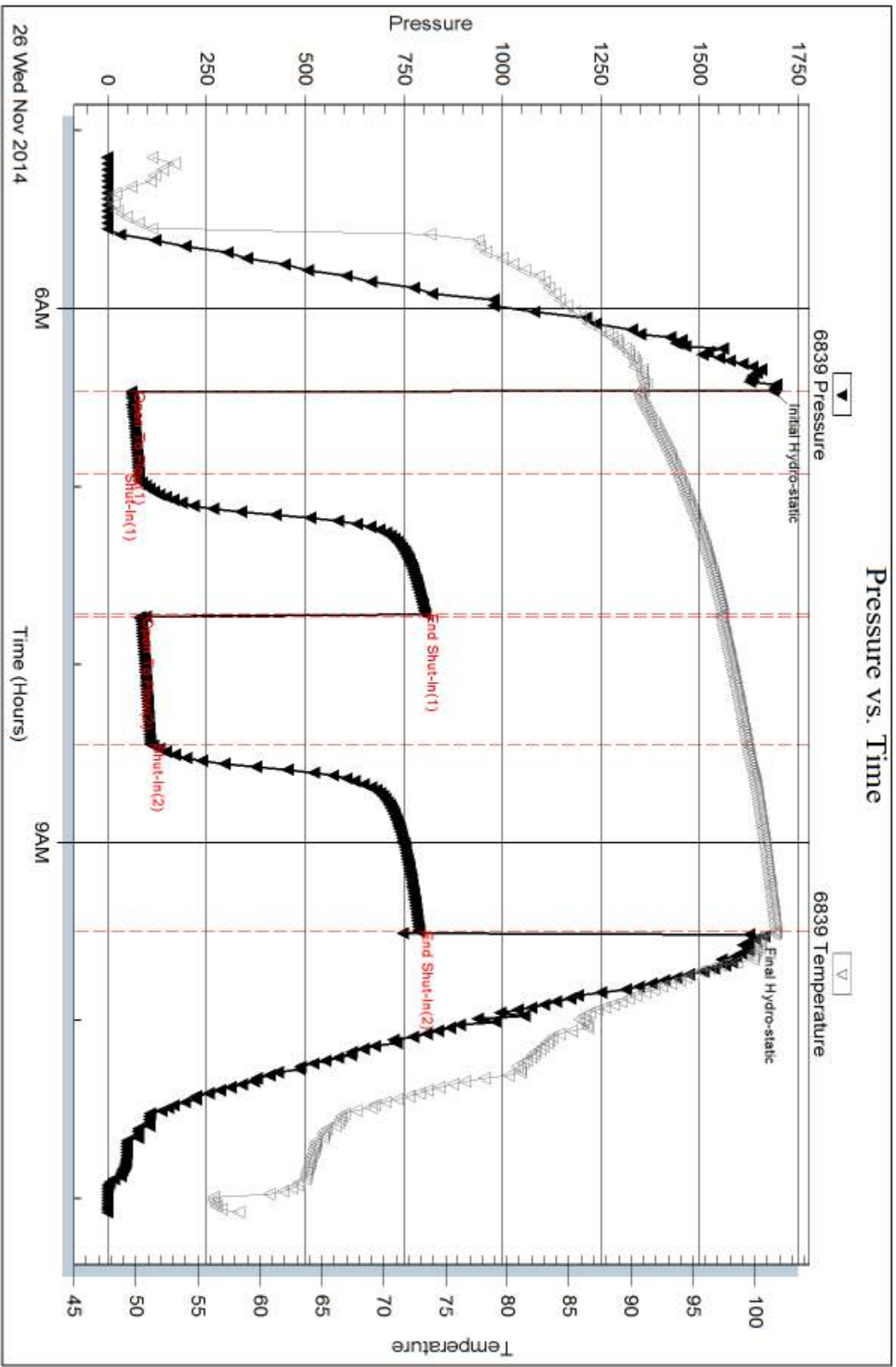
Serial #: 6839

Inside

K&N Petroleum

Norman Klepper #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60298

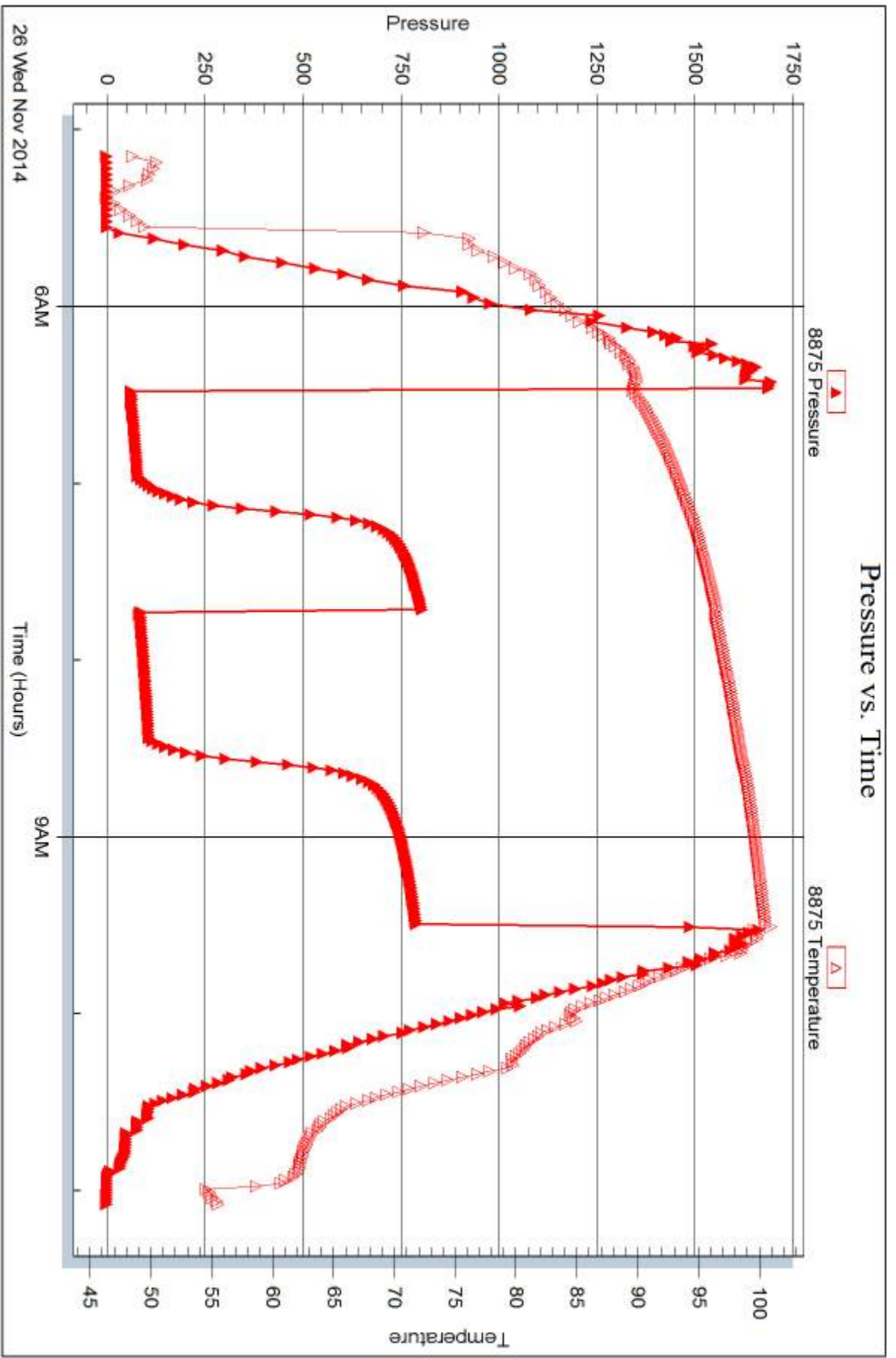
Printed: 2014.11.28 @ 15:33:50

Serial #: 8875

Outside K&N Petroleum

Norman Klepper #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 60298

Printed: 2014.11.28 @ 15:33:50



DRILL STEM TEST REPORT

Prepared For: **K&N Petroleum**
1105 Walnut
Great Bend KS 67530

ATTN: Kurt Talbolt

Norman Klepper #1

36-20s-12w Barton,KS

Start Date: 2014.11.26 @ 18:55:00

End Date: 2014.11.27 @ 00:59:00

Job Ticket #: 60299 DST #: 3

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

Printed: 2014.11.28 @ 15:27:40



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

K&N Petroleum
1105 Walnut
Great Bend KS 67530
ATTN: Kurt Talbolt

36-20s-12w Barton,KS

Norman Klepper #1

Job Ticket: 60299 **DST#: 3**

Test Start: 2014.11.26 @ 18:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:15:30
 Time Test Ended: 00:59:00
 Interval: **3367.00 ft (KB) To 3422.00 ft (KB) (TVD)**
 Total Depth: 3422.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: S2
 Reference Elevations: 1819.00 ft (KB)
 1811.00 ft (CF)
 KB to GR/CF: 8.00 ft

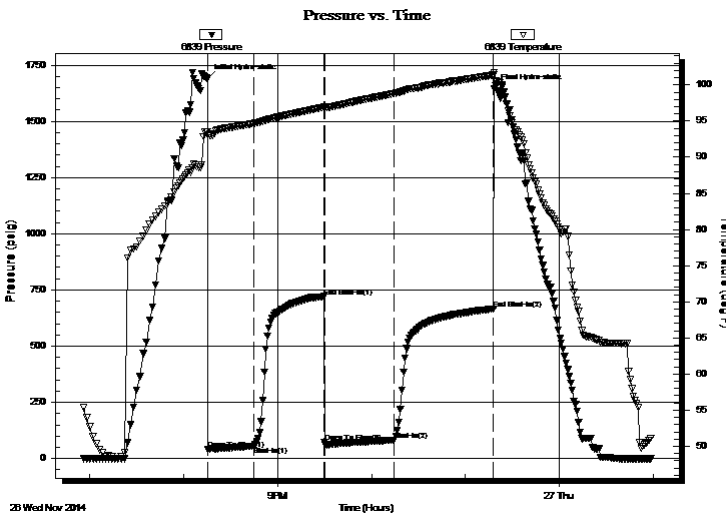
Serial #: 6839

Inside

Press@RunDepth: 82.91 psig @ 3417.49 ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.11.26 End Date: 2014.11.27 Last Calib.: 2014.11.27
 Start Time: 18:56:00 End Time: 00:59:00 Time On Btm: 2014.11.26 @ 20:15:00
 Time Off Btm: 2014.11.26 @ 23:18:30

TEST COMMENT: IFP 30 min BOB in 10 min.
 ISI 45 min. No blow back
 FFP 45 min BOB in 7 min.
 FSI 60 min .Yes Blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.31	93.52	Initial Hydro-static
1	40.00	93.16	Open To Flow (1)
30	55.94	94.67	Shut-In(1)
75	720.96	96.94	End Shut-In(1)
76	72.70	96.75	Open To Flow (2)
120	82.91	98.81	Shut-In(2)
183	666.38	101.37	End Shut-In(2)
184	1646.81	101.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Clean Gassy Oil 100%	0.28
121.00	GOCM Oil 10% Gas 20% Mud 70%	1.70
0.00	2714 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

K&N Petroleum

36-20s-12w Barton,KS

1105 Walnut
Great Bend KS 67530

Norman Klepper #1

Job Ticket: 60299

DST#: 3

ATTN: Kurt Talbolt

Test Start: 2014.11.26 @ 18:55:00

Tool Information

Drill Pipe:	Length: 3355.00 ft	Diameter: 3.80 inches	Volume: 47.06 bbl	Tool Weight: 2000.00 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: 55000.00 lb
			<u>Total Volume: 47.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3367.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.49 ft			
Tool Length:	75.49 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			3352.00	
Hydraulic tool	5.00			3357.00	
Top Packer	5.00			3362.00	
Packer	5.00			3367.00	20.00 Bottom Of Top Packer
Anchor	6.00			3373.00	
Change Over Sub	0.75			3373.75	
Drill Pipe	31.99			3405.74	
Change Over Sub	0.75			3406.49	
Anchor	11.00			3417.49	
Recorder	0.00	6839	Inside	3417.49	
Recorder	0.00	8875	Outside	3417.49	
Bull Plug	5.00			3422.49	55.49 Anchor Tool

Total Tool Length: 75.49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

K&N Petroleum

36-20s-12w Barton,KS

1105 Walnut
Great Bend KS 67530

Norman Klepper #1

Job Ticket: 60299

DST#: 3

ATTN: Kurt Talbolt

Test Start: 2014.11.26 @ 18:55:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
20.00	Clean Gassy Oil 100%	0.281
121.00	GOCM Oil 10% Gas 20% Mud 70%	1.697
0.00	2714 GIP	0.000

Total Length: 141.00 ft Total Volume: 1.978 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6839

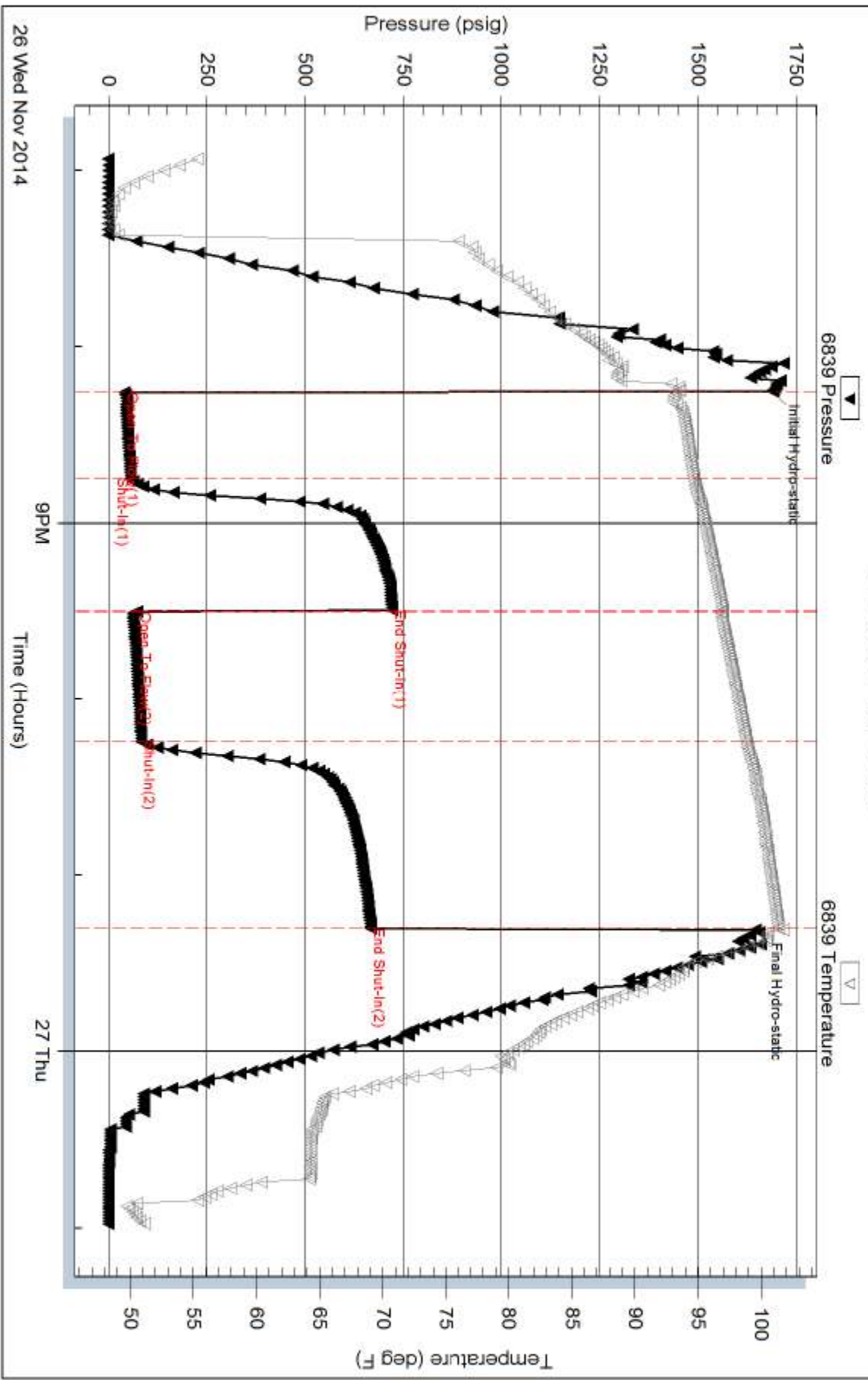
Inside

K&N Petroleum

Norman Klepper #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 60299

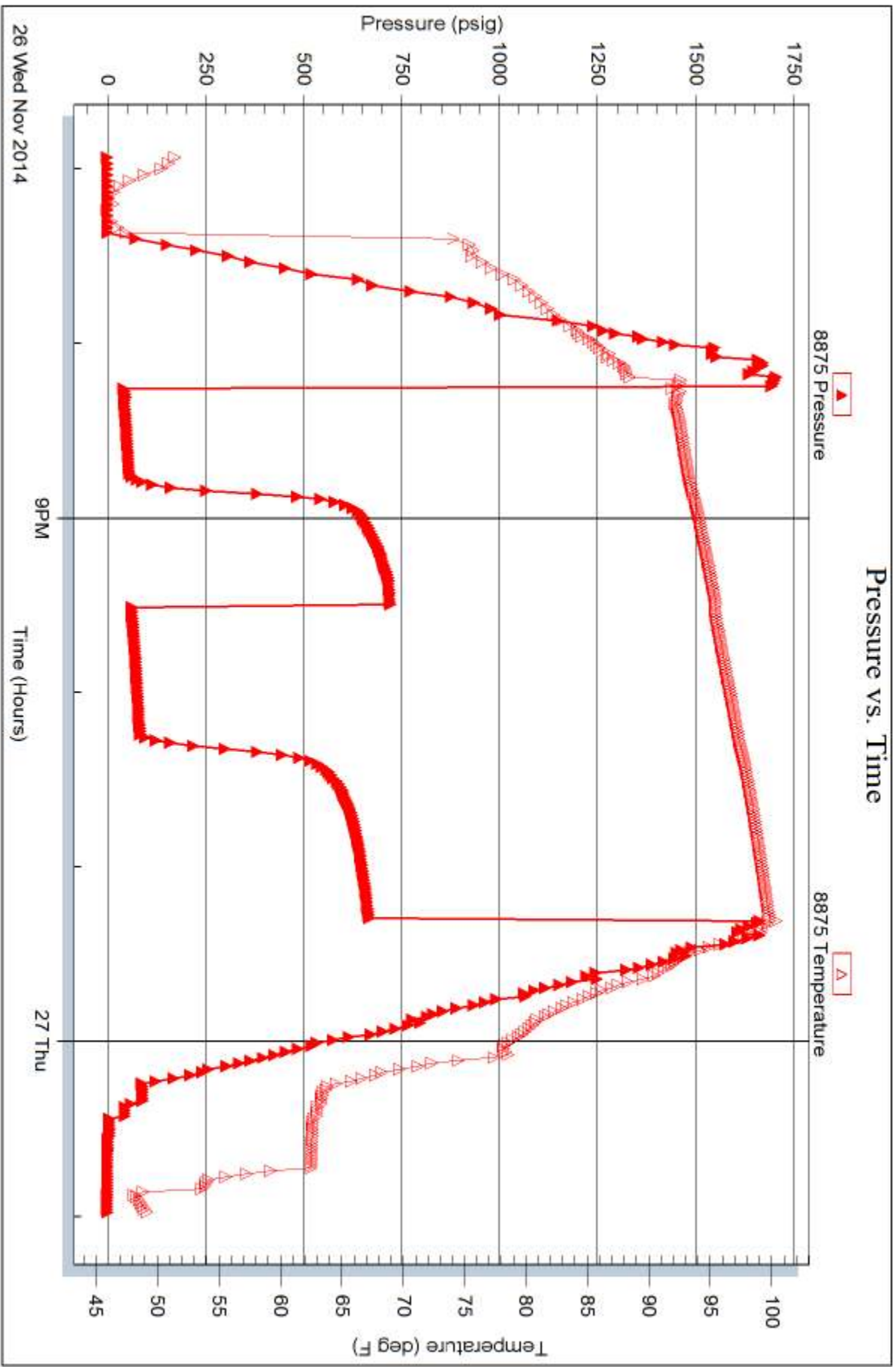
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Serial #: 8875

Outside K&N Petroleum

Norman Klepper #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 60299

Printed: 2014.11.28 @ 15:27:41



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60297

4/10

Well Name & No. Norman Klepper #1 Test No. 1 Date 11-25-14
 Company K+N Petroleum Elevation 1811 KB 1819 GL
 Address 1105 Walnut Great Bend KS 67530
 Co. Rep / Geo. Kurt Talbott Rig Southwind Rig #6
 Location: Sec. 36 Twp. 20s Rge. 12w Co. Barton State KS

Interval Tested 3147-3240 Zone Tested Lansing A-F
 Anchor Length 93 Drill Pipe Run 3138 Mud Wt. 8.9
 Top Packer Depth 3142 Drill Collars Run 0 Vis 63
 Bottom Packer Depth 3147 Wt. Pipe Run 48,000 WL 7.2
 Total Depth 3240 Chlorides 4000 ppm System LCM 1
 Blow Description Initial open - ^{good} strong building blow built to ~~800~~ 9 inches.
Initial shut-in - 100 blow back.
Final Flow - Dead, very weak blow died off.
Final shut-in - 100 blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</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 50 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1635 Test 1150 T-On Location 5:00am
 (B) First Initial Flow 89 Jars _____ T-Started 6:40am
 (C) First Final Flow 001 Safety Joint _____ T-Open 8:10am
 (D) Initial Shut-In 694 694 Circ Sub _____ T-Pulled 11:0am
 (E) Second Initial Flow 698 694 Hourly Standby _____ T-Out 12:25
 (F) Second Final Flow 422 699 Mileage 40 62 Comments _____
 (G) Final Shut-In 702 Sampler _____
 (H) Final Hydrostatic 1523 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1212.00
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1212

Approved By _____ Our Representative Dustin Ellis
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60298

Well Name & No. Norman Klepper #1 Test No. 2 Date 11-26-14
 Company K+N Petroleum Elevation 1811 KB 1819 GL
 Address 1105 Walnut Great Bend KS 67530
 Co. Rep / Geo. Kurt Tabbolt Rig Southwind Drilling Rig 6
 Location: Sec. 36 Twp. 20s Rge. 12w Co. Barton State KS

Interval Tested 3293 - 3388 Zone Tested lower LLC
 Anchor Length 95 Drill Pipe Run 32.88 Mud Wt. 9.4
 Top Packer Depth 3288 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 3293 Wt. Pipe Run 48,000 WL 8
 Total Depth 3388 Chlorides 6000 ppm System LCM 1

Blow Description initial open - Fair blow blew off BOB in 9 min,
initial shut in - No blow back
Final Flow - BOB in 5 min.
Final shut in - No blow back.

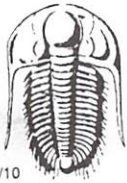
Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>Gassy oil cut mud 50</u>	<u>20</u>		<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 140 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1680 Test 1150 T-On Location 4:30 am
 (B) First Initial Flow 60 Jars _____ T-Started 5:08 am +
 (C) First Final Flow 77 Safety Joint _____ T-Open 6:27 am
 (D) Initial Shut-In 882 Circ Sub _____ T-Pulled 9:27 am
 (E) Second Initial Flow 80 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 107 Mileage 40 62 Comments 252 gas in
 (G) Final Shut-In 787 Sampler _____ pipe
 (H) Final Hydrostatic 1625 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1212
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1212

Approved By _____ Our Representative Dustin Ellis

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60299

4/10

Well Name & No. Norman Klepper #1 Test No. 3 Date 11-26-14
 Company K+O Petroleum Elevation 1811 KB 1814 GL
 Address 1105 Walnut Great Bend KS 6753
 Co. Rep / Geo. Kurt Talbott Rig Southwind Rig #6
 Location: Sec. 36 Twp. 26 Rge. 12w Co. Barton State Ks

Interval Tested 3367-3422 Zone Tested Arbuckle
 Anchor Length 55 Drill Pipe Run 5355 Mud Wt. 9.4
 Top Packer Depth 3362 Drill Collars Run 0 Vis 49
 Bottom Packer Depth 3367 Wt. Pipe Run 50,000 WL 8
 Total Depth 3422 Chlorides 6000 ppm System LCM 1

Blow Description Initial open BOB 10 min
Initial shut-in - No blow back
Final Flow - BOB in 7 min
Final Shut-in - ks blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Clean gassy oil</u>				
<u>121</u>	<u>Gassy oil cut mud 20</u>	<u>20</u>		<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT _____ Gravity 1150 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1690 Test _____ T-On Location 6:20 pm
 (B) First Initial Flow 40 Jars _____ T-Started 6:55 pm *
 (C) First Final Flow 55 Safety Joint _____ T-Open 9:14
 (D) Initial Shut-In 720 Circ Sub _____ T-Pulled 11:14 pm
 (E) Second Initial Flow 72 Hourly Standby _____ T-Out 2:14 gas in
 (F) Second Final Flow 82 Mileage 40 62 Comments pipe
 (G) Final Shut-In 666 Sampler _____
 (H) Final Hydrostatic 1616 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1212
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1212

Approved By _____ Our Representative Dustin Ellis

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