



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1226010  
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: \_\_\_\_\_



1226010

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  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

<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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	H & C Oil Operating Inc.
Well Name	Keith-Ficken 17-3
Doc ID	1226010

All Electric Logs Run

Dual Induction log
Dual Compensated Porosity log
Microresistivity log
Cement bond log



## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Company**

PO Box 86  
Plainville, KS 67663

ATTN: Marc Downing

**Keith Ficken #17-3**

**17-9s-24w Graham, KS**

Start Date: 2014.03.08 @ 12:45:00

End Date: 2014.03.09 @ 00:28:00

Job Ticket #: 56158                      DST #: 1

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

Printed: 2014.03.15 @ 11:23:47

H&C Oil Company  
17-9s-24w Graham, KS  
Keith Ficken #17-3  
DST # 1  
LKC C-D  
2014.03.08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

ATTN: Marc Downing

Job Ticket: 56158

**DST#: 1**

Test Start: 2014.03.08 @ 12:45:00

## GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:00

Time Test Ended: 00:28:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 67

**Interval: 3880.00 ft (KB) To 3922.00 ft (KB) (TVD)**

Reference Elevations: 2531.00 ft (KB)

Total Depth: 3922.00 ft (KB) (TVD)

2525.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 6625 Outside**

Press@RunDepth: 549.44 psig @ 3918.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.08

End Date:

2014.03.09

Last Calib.: 2014.03.08

Start Time: 12:45:01

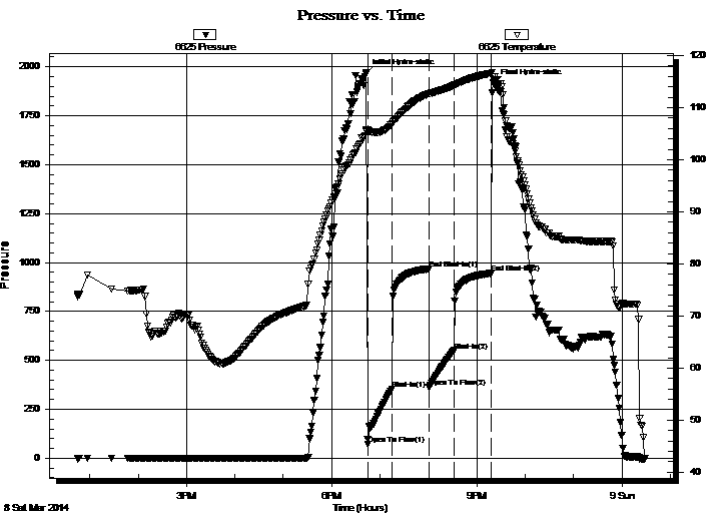
End Time:

00:28:00

Time On Btm: 2014.03.08 @ 18:42:30

Time Off Btm: 2014.03.08 @ 21:21:00

**TEST COMMENT:** I.F. - 30 - BOB in 1 min  
I.S.I. - 45 - BOB in 17 min  
F.F. - 30 - BOB in 1 min  
F.S.I. - 45 - BOB in 7 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1965.52	105.52	Initial Hydro-static
3	70.62	105.57	Open To Flow (1)
32	352.66	106.87	Shut-In(1)
78	967.07	112.70	End Shut-In(1)
79	360.39	112.63	Open To Flow (2)
109	549.44	114.26	Shut-In(2)
156	944.50	116.56	End Shut-In(2)
159	1914.30	116.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	H,M,C,O 30 % MUD 70% OIL	1.49
0.00	60 MIN SAMPLE M,C,O, 15% MUD 85% OIL	0.00
0.00	50 MIN. SAMPLE M,C,O, 12 % MUD 88 %	0.00
0.00	45 MIN. SAMPLE S,M,C,O, 10% MUD 90	0.00
0.00	10 - 45MIN. SAMPLE 100% CLEAN OIL	0.00
1434.00	Reversed out fluid	20.12

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

Job Ticket: 56158

**DST#: 1**

ATTN: Marc Downing

Test Start: 2014.03.08 @ 12:45:00

## Tool Information

Drill Pipe:	Length: 3840.00 ft	Diameter: 3.80 inches	Volume: 53.87 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.02 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3880.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3861.00	
Shut In Tool	5.00			3866.00	
Hydraulic tool	5.00			3871.00	
Packer	4.00			3875.00	20.00 Bottom Of Top Packer
Packer	5.00			3880.00	
Stubb	1.00			3881.00	
Perforations	4.00			3885.00	
Change Over Sub	1.00			3886.00	
Drill Pipe	31.00			3917.00	
Change Over Sub	1.00			3918.00	
Recorder	0.00	6625	Outside	3918.00	
Recorder	0.00	8166	Inside	3918.00	
Bullnose	4.00			3922.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

Job Ticket: 56158

**DST#: 1**

ATTN: Marc Downing

Test Start: 2014.03.08 @ 12:45:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	H,M,C,O 30 % MUD 70% OIL	1.485
0.00	60 MIN SAMPLE M,C,O, 15%MUD 85%OIL	0.000
0.00	50 MIN. SAMPLE M,C,O, 12 % MUD 88 % OIL	0.000
0.00	45 MIN. SAMPLE S,M,C,O, 10% MUD 90 OIL	0.000
0.00	10 - 45MIN. SAMPLE 100% CLEAN OIL	0.000
1434.00	Reversed out fluid	20.115
0.00	2242' G.I.P.	0.000

Total Length: 1560.00 ft

Total Volume: 21.600 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

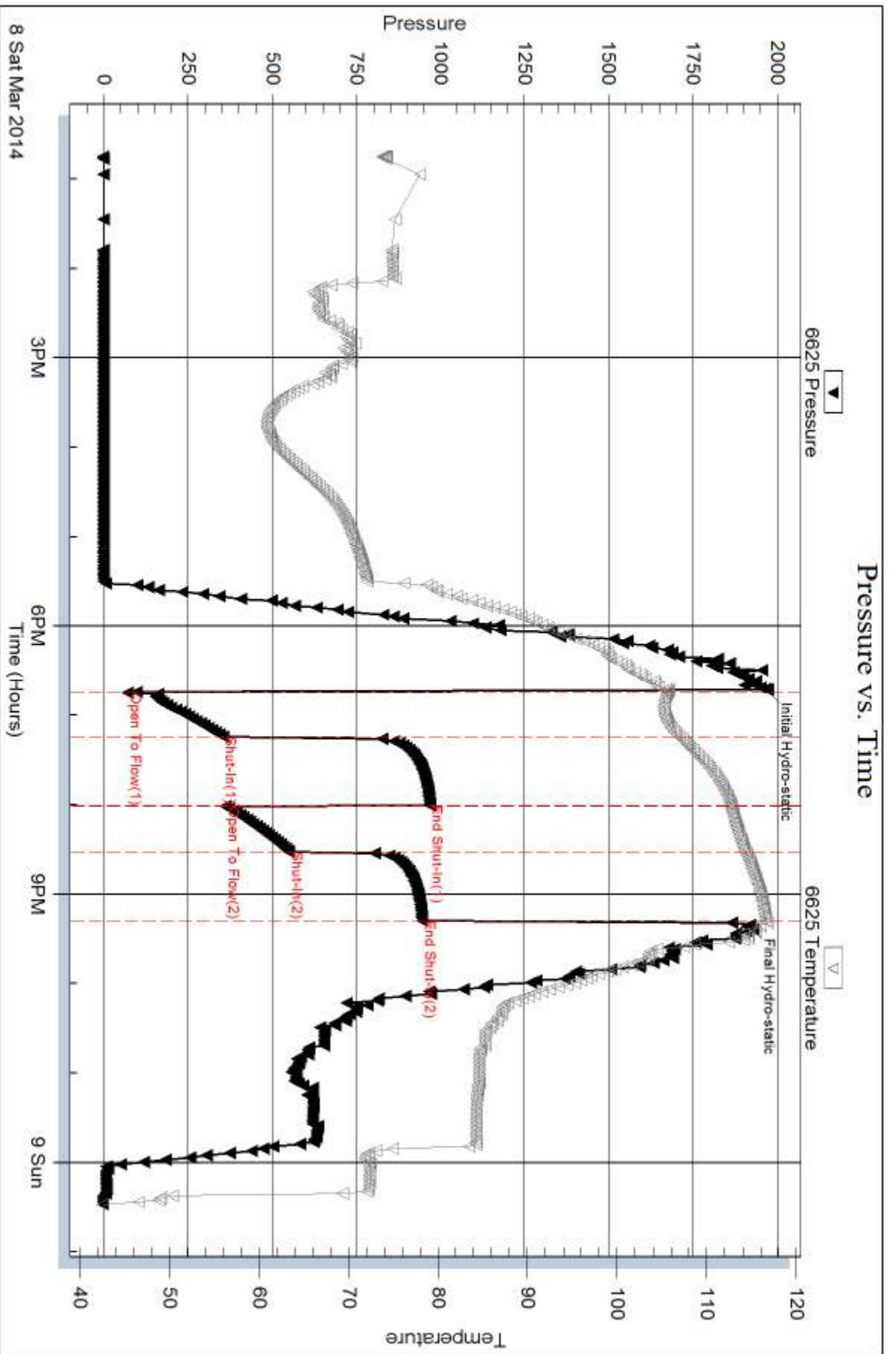
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





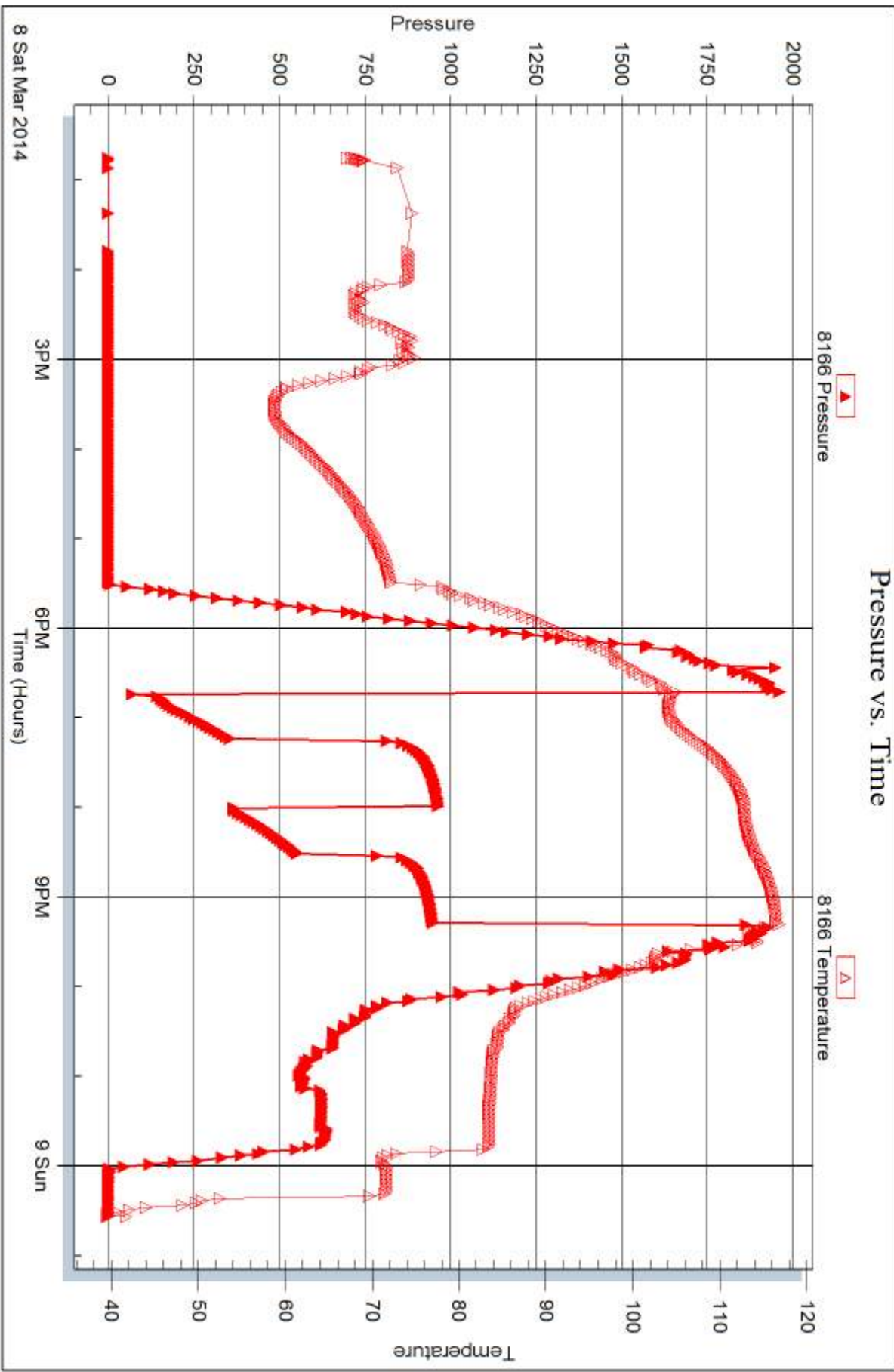
Serial #: 8166

Inside

H&C Oil Company

Keith Ficken #17-3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56158

Printed: 2014.03.15 @ 11:23:49



## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Company**

PO Box 86  
Plainville, KS 67663

ATTN: Marc Downing

**Keith Ficken #17-3**

**17-9s-24w Graham, KS**

Start Date: 2014.03.09 @ 08:00:00

End Date: 2014.03.09 @ 15:39:34

Job Ticket #: 56159                      DST #: 2

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

Printed: 2014.03.15 @ 11:14:38



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

ATTN: Marc Downing

Job Ticket: 56159

**DST#: 2**

Test Start: 2014.03.09 @ 08:00:00

## GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:31:04

Time Test Ended: 15:39:34

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

**Interval: 3918.00 ft (KB) To 3945.00 ft (KB) (TVD)**

Reference Elevations: 2531.00 ft (KB)

Total Depth: 3945.00 ft (KB) (TVD)

2525.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 6625 Outside**

Press@RunDepth: 151.96 psig @ 3941.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.09

End Date:

2014.03.09

Last Calib.:

2014.03.09

Start Time: 08:00:01

End Time:

15:39:33

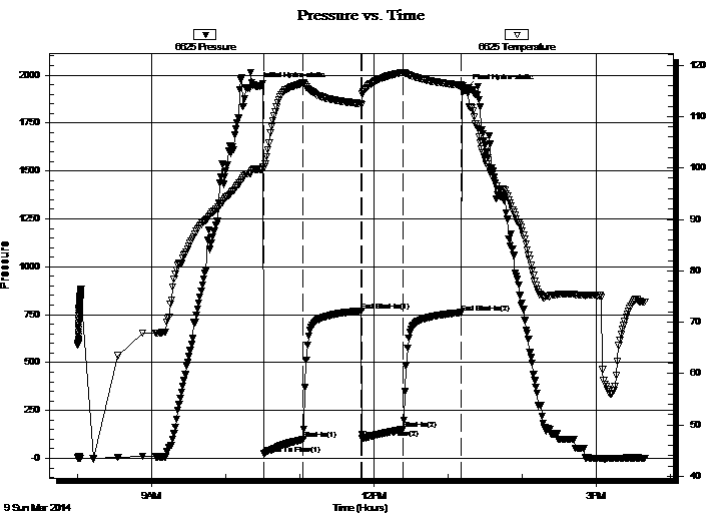
Time On Btm:

2014.03.09 @ 10:25:04

Time Off Btm:

2014.03.09 @ 13:14:34

**TEST COMMENT:** I.F. - 30 - BOB in 13 min  
I.S.I. - 45 - Weak surface blow built to 1/4"  
F.F. - 30 - BOB in 13 min  
F.S.I. - 45 - No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.50	99.77	Initial Hydro-static
6	23.48	100.14	Open To Flow (1)
38	97.98	116.55	Shut-In(1)
85	770.43	112.53	End Shut-In(1)
86	102.78	114.36	Open To Flow (2)
119	151.96	118.59	Shut-In(2)
166	760.38	116.11	End Shut-In(2)
170	1930.90	115.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	S,O,C,H,W,C,M 10% OIL 40% WATER 50'2.37JD	
30.00	CLEAN OIL 100 %	0.42

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

Job Ticket: 56159

**DST#: 2**

ATTN: Marc Downing

Test Start: 2014.03.09 @ 08:00:00

## Tool Information

Drill Pipe:	Length: 3903.00 ft	Diameter: 3.80 inches	Volume: 54.75 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.90 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3918.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	46.00 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			3904.00	
Hydraulic tool	5.00			3909.00	
Packer	4.00			3913.00	19.00 Bottom Of Top Packer
Packer	5.00			3918.00	
Stubb	1.00			3919.00	
Perforations	22.00			3941.00	
Recorder	0.00	6625	Outside	3941.00	
Recorder	0.00	8166	Inside	3941.00	
Bullnose	4.00			3945.00	27.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

Job Ticket: 56159

**DST#: 2**

ATTN: Marc Downing

Test Start: 2014.03.09 @ 08:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

39000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	S,O,C,H,W,C,M 10% OIL 40% WATER 50% M	2.369
30.00	CLEAN OIL 100 %	0.421

Total Length: 219.00 ft      Total Volume: 2.790 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

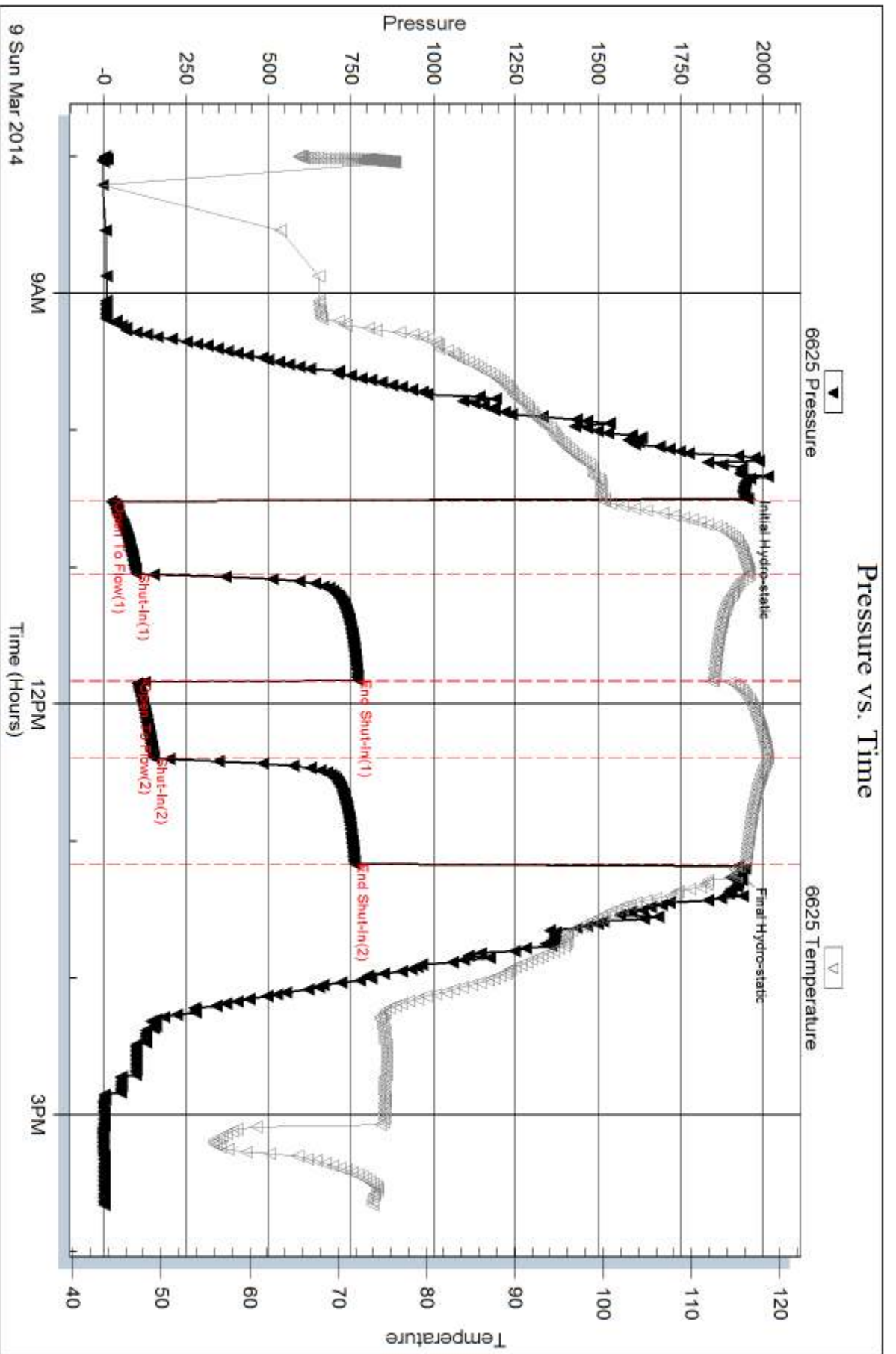
Recovery Comments: R.W. = .19 OHMS @ 70 DEG.

Serial #: 6625

Outside H&C Oil Company

Keith Ficken #17-3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56159

Printed: 2014.03.15 @ 11:14:40



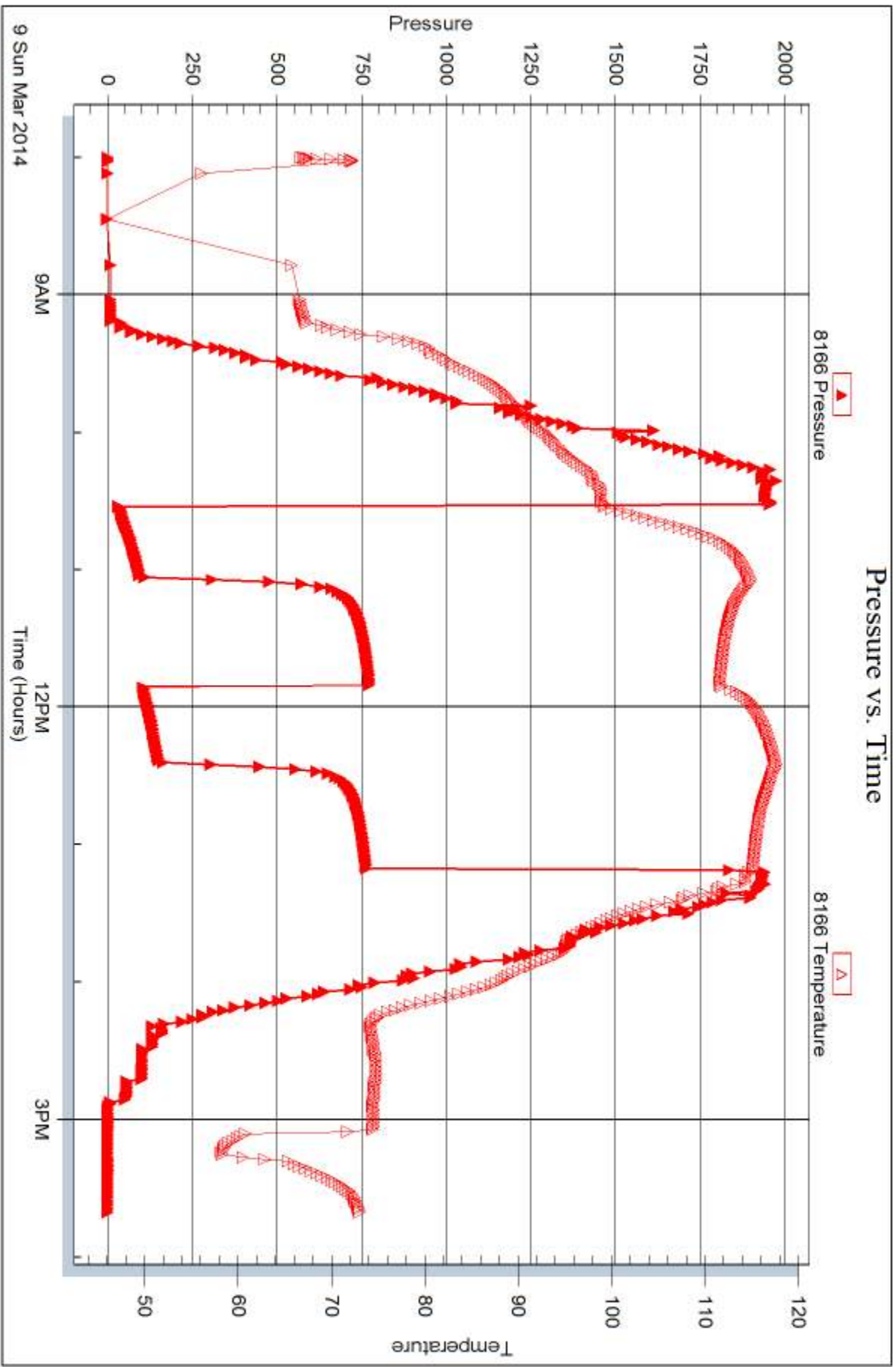
Serial #: 8166

Inside

H&C Oil Company

Keith Ficken #17-3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56159

Printed: 2014.03.15 @ 11:14:41



## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Company**

PO Box 86  
Plainville, KS 67663

ATTN: Marc Downing

**Keith Ficken #17-3**

**17-9s-24w Graham, KS**

Start Date: 2014.03.10 @ 02:30:00

End Date: 2014.03.10 @ 09:12:30

Job Ticket #: 56160                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.15 @ 11:23:17

H&C Oil Company

17-9s-24w Graham, KS

Keith Ficken #17-3

DST # 3

LKC H-J

2014.03.10



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

Job Ticket: 56160

**DST#: 3**

ATTN: Marc Downing

Test Start: 2014.03.10 @ 02:30:00

## GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:49:00

Time Test Ended: 09:12:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

**Interval: 3976.00 ft (KB) To 4050.00 ft (KB) (TVD)**

Reference Elevations: 2531.00 ft (KB)

Total Depth: 4050.00 ft (KB) (TVD)

2525.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 6625 Outside**

Press@RunDepth: 53.05 psig @ 4045.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.10

End Date:

2014.03.10

Last Calib.:

2014.03.10

Start Time: 02:30:01

End Time:

09:12:30

Time On Btm:

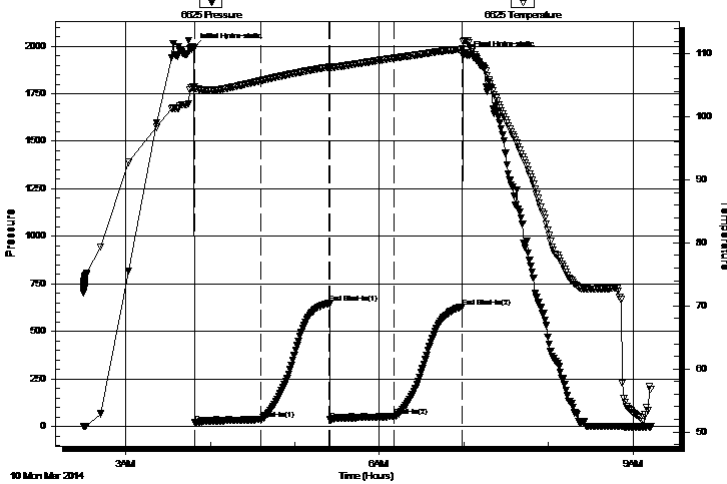
2014.03.10 @ 03:48:00

Time Off Btm:

2014.03.10 @ 07:02:30

**TEST COMMENT:** I.F. - 45 - BOB in 27 min  
I.S.I. - 45 - Weak surface blow back.  
F.F. - 45 - BOB in 23 min  
F.S.I. - 45 - No blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1994.22	104.76	Initial Hydro-static
1	18.93	104.47	Open To Flow (1)
48	36.31	105.74	Shut-In(1)
96	647.62	107.88	End Shut-In(1)
97	35.00	107.85	Open To Flow (2)
143	53.05	109.33	Shut-In(2)
191	628.35	110.75	End Shut-In(2)
195	1951.34	112.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	252' G.I.P.	0.00
40.00	G,H,M,C,O, 10% GAS 40% MUD 50% OIL 0.28	

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

Job Ticket: 56160

**DST#: 3**

ATTN: Marc Downing

Test Start: 2014.03.10 @ 02:30:00

## Tool Information

Drill Pipe:	Length: 3934.00 ft	Diameter: 3.80 inches	Volume: 55.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 55.33 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3976.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	93.00 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			3962.00	
Hydraulic tool	5.00			3967.00	
Packer	4.00			3971.00	19.00 Bottom Of Top Packer
Packer	5.00			3976.00	
Stubb	1.00			3977.00	
Perforations	4.00			3981.00	
Change Over Sub	1.00			3982.00	
Drill Pipe	63.00			4045.00	
Recorder	0.00	6625	Outside	4045.00	
Recorder	0.00	8166	Inside	4045.00	
Change Over Sub	1.00			4046.00	
Bullnose	4.00			4050.00	74.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

Job Ticket: 56160

**DST#: 3**

ATTN: Marc Downing

Test Start: 2014.03.10 @ 02:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	252' G.I.P.	0.000
40.00	G,H,M,C,O, 10% GAS 40% MUD 50% OIL	0.279

Total Length: 40.00 ft      Total Volume: 0.279 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

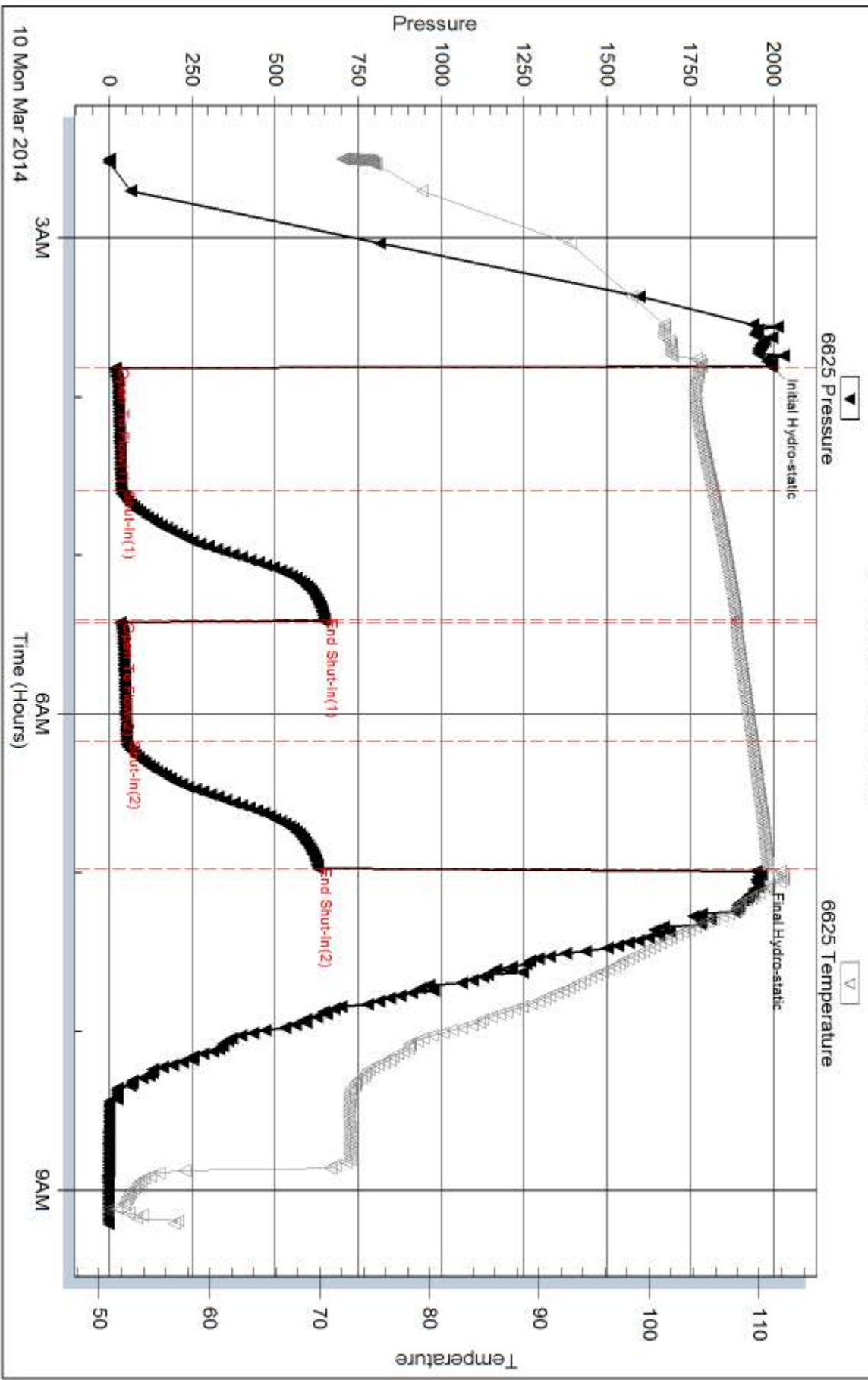
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



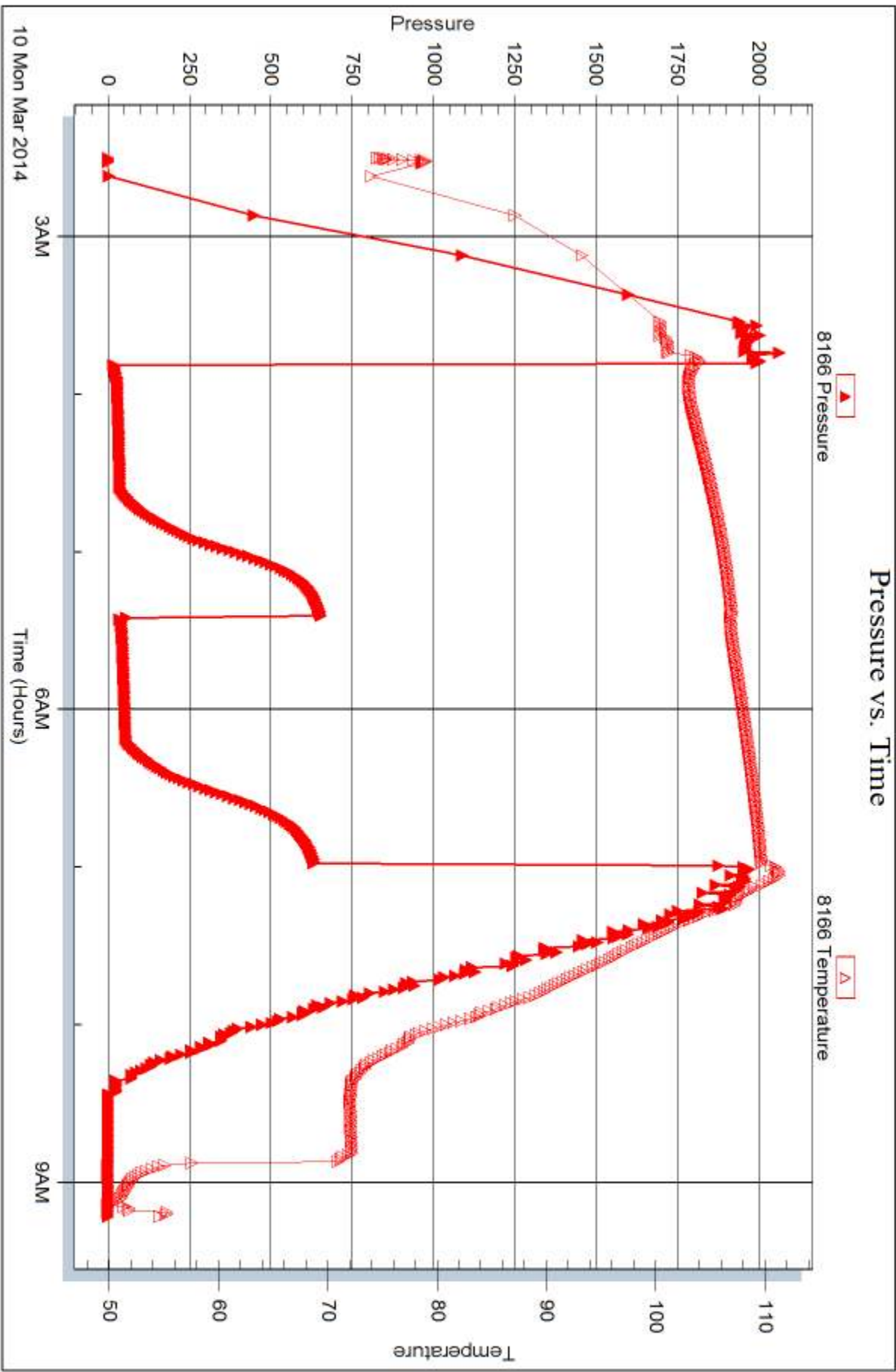
Serial #: 8166

Inside

H&C Oil Company

Keith Ficken #17-3

DST Test Number: 3







## DRILL STEM TEST REPORT

Prepared For: **H&C Oil Company**

PO Box 86  
Plainville, KS 67663

ATTN: Marc Downing

**Keith Ficken #17-3**

**17-9s-24w Graham, KS**

Start Date: 2014.03.10 @ 17:20:00

End Date: 2014.03.11 @ 00:31:45

Job Ticket #: 56161                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.03.15 @ 11:15:09

H&C Oil Company

17-9s-24w Graham, KS

Keith Ficken #17-3

DST # 4

LKC K-L

2014.03.10



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

ATTN: Marc Downing

Job Ticket: 56161

**DST#: 4**

Test Start: 2014.03.10 @ 17:20:00

## GENERAL INFORMATION:

Formation: **LKC K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:53:45

Time Test Ended: 00:31:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 67

**Interval: 4049.00 ft (KB) To 4090.00 ft (KB) (TVD)**

Reference Elevations: 2531.00 ft (KB)

Total Depth: 4090.00 ft (KB) (TVD)

2525.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8166**

**Inside**

Press@RunDepth: 141.53 psig @ 4086.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.10

End Date:

2014.03.11

Last Calib.: 2014.03.11

Start Time: 17:20:02

End Time:

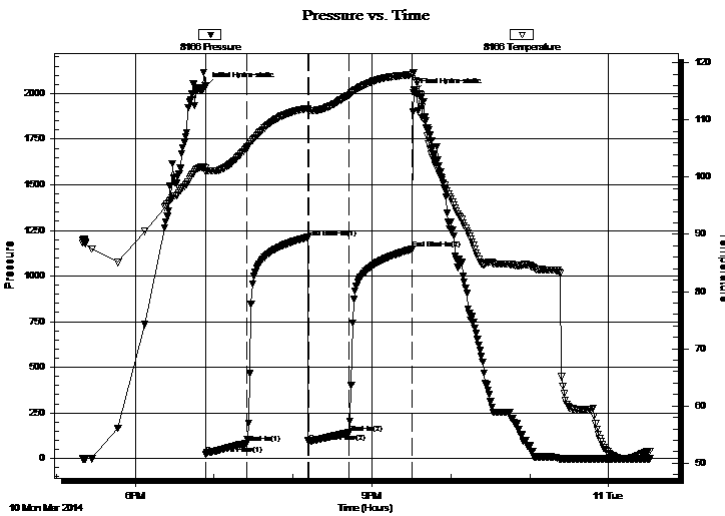
00:31:45

Time On Btm: 2014.03.10 @ 18:53:15

Time Off Btm: 2014.03.10 @ 21:31:45

**TEST COMMENT:** I.F. - 30 - BOB in 4 min  
I.S.I. - 45 - BOB in 18 min  
F.F. - 30 - BOB in 1 min  
F.S.I. - 45 - BOB in 20 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2040.08	101.57	Initial Hydro-static
1	25.02	100.94	Open To Flow (1)
32	83.69	105.10	Shut-In(1)
78	1211.79	112.01	End Shut-In(1)
79	91.74	111.65	Open To Flow (2)
110	141.53	114.35	Shut-In(2)
158	1146.76	117.89	End Shut-In(2)
159	2004.47	118.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
558.00	CLEAN OIL 100%	7.54
0.00	819' G.I.P.	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

Job Ticket: 56161

**DST#: 4**

ATTN: Marc Downing

Test Start: 2014.03.10 @ 17:20:00

## Tool Information

Drill Pipe:	Length: 4031.00 ft	Diameter: 3.80 inches	Volume: 56.54 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4049.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	60.00 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			4035.00	
Hydraulic tool	5.00			4040.00	
Packer	4.00			4044.00	19.00 Bottom Of Top Packer
Packer	5.00			4049.00	
Stubb	1.00			4050.00	
Perforations	3.00			4053.00	
Change Over Sub	1.00			4054.00	
Drill Pipe	31.00			4085.00	
Change Over Sub	1.00			4086.00	
Recorder	0.00	6625	Outside	4086.00	
Recorder	0.00	8166	Inside	4086.00	
Bullnose	4.00			4090.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

H&C Oil Company

**17-9s-24w Graham,KS**

PO Box 86  
Plainville,KS 67663

**Keith Ficken #17-3**

Job Ticket: 56161

**DST#: 4**

ATTN: Marc Downing

Test Start: 2014.03.10 @ 17:20:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
558.00	CLEAN OIL 100%	7.545
0.00	819' G.I.P.	0.000

Total Length: 558.00 ft      Total Volume: 7.545 bbl

Num Fluid Samples: 0

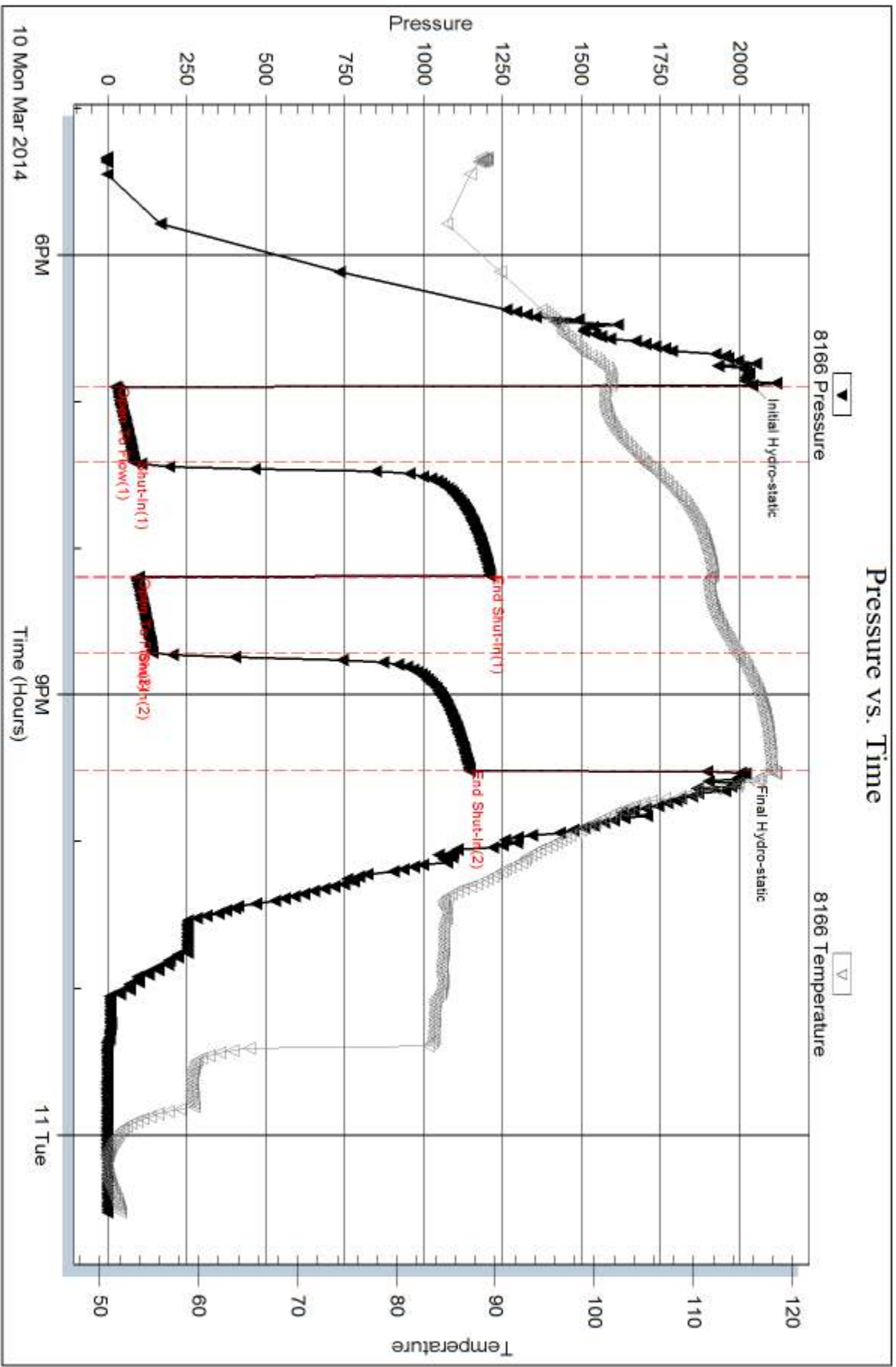
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL GRAVITY = 34.6 @ 60 DEG.

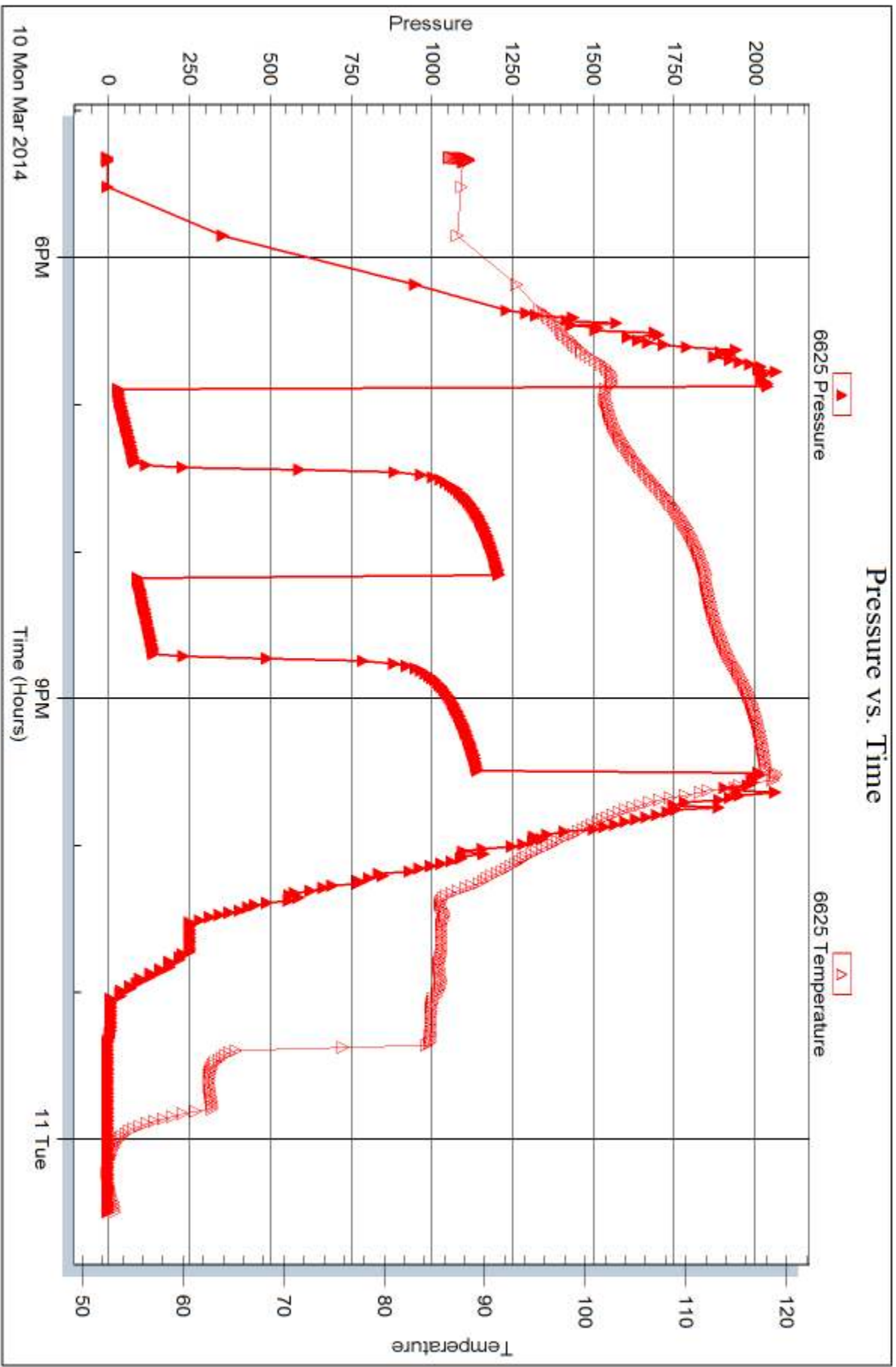


Serial #: 6625

Outside H&C Oil Company

Keith Ficken #17.3

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 56161

Printed: 2014.03.15 @ 11:15:11





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56158

Well Name & No. Keith Ficklen #17-3 Test No. 1 Date 3-8-14  
 Company H+C oil operating INC. Elevation 2,531 KB 2525 GL  
 Address P.O. Box 86 Plainville, KS, 67663  
 Co. Rep / Geo. Mark Downing / Charles R. Ramsey Rig American eggie Rig #2  
 Location: Sec. 17 Twp. 9 S. Rge. 24 W. Co. Graham State KS.

Interval Tested 3,880 - 3,922 Zone Tested L.K.C. "C & D"  
 Anchor Length 42' Drill Pipe Run 3840.00 Mud Wt. 8.9  
 Top Packer Depth 3,875 Drill Collars Run 31.00 Vis 50  
 Bottom Packer Depth 3,880 Wt. Pipe Run --- WL 6.0  
 Total Depth 3922 Chlorides 1,200 ppm System LCM 2

Blow Description I.F. - 30 - 1/2 INT. Blow Built to (B.O.B. in 1 min.)  
I.S.I. - 45 - B.O.B. in 17 Min.  
E.F. - 30 - B.O.B. (1 min.)  
E.S.I. - 45 - B.O.B. 7 min.

Rec	Feet of	%gas	%oil	%water	%mud
Rec	<u>2242' GIP.</u>	<u>100</u>			
Rec <u>45 min</u>	<u><del>6000</del> S, M, C, D</u>	<u>90</u>		<u>10</u>	
Rec <u>50 min</u>	<u><del>4500</del> M, C, D</u>	<u>88</u>		<u>12</u>	
Rec <u>60 min</u>	<u><del>3000</del> M, C, D</u>	<u>85</u>		<u>15</u>	
Rec <u>126'</u>	<u>H, M, C, D</u>	<u>70</u>		<u>30</u>	

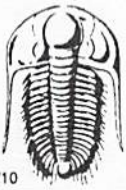
Rec Total 1,560' BHT 116' Gravity 35.8<sup>60</sup> API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1966  Test 1150 T-On Location 10:45:00  
 (B) First Initial Flow 71  Jars --- T-Started 12:45:00  
 (C) First Final Flow 353  Safety Joint --- T-Open 18:45:00  
 (D) Initial Shut-In 987  Circ Sub Dropped Bar, 50 T-Pulled 20:23:00  
 (E) Second Initial Flow 360  Hourly Standby --- T-Out 00:28:00  
 (F) Second Final Flow 549  Mileage 118 R.t. 182.90 Comments (Dropped BAR)  
 (G) Final Shut-In 945  Sampler --- (Write hrs. on New Shut-in test)  
 (H) Final Hydrostatic 1914  Straddle --- "Thank-you"  
 Ruined Shale Packer ---  
 Shale Packer ---  
 Extra Packer ---  
 Extra Recorder ---  
 Day Standby ---  
 Accessibility ---  
 Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45  
 Sub Total 1382.90

Approved By \_\_\_\_\_ Our Representative Bob Thomas

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. 56159

Well Name & No. Keith Ficken #17-3 Test No. 2 Date 3-9-14  
 Company H+C oil operating INC. Elevation 2,531 KB 2,525 GL  
 Address P.O. Box 86 Plainville KS. 67663  
 Co. Rep / Geo. Mark Downing / Charles R. Ramsey Rig American Eagle Rig #2  
 Location: Sec. 17 Twp. 9 S. Rge. 24 W. Co. Graham State KS.

Interval Tested 3918-3945 Zone Tested L.R.C. E-F  
 Anchor Length 27' Drill Pipe Run 3,903 Mud Wt. 9.0  
 Top Packer Depth 3913 Drill Collars Run 31.00' Vis 53  
 Bottom Packer Depth 3918 Wt. Pipe Run --- WL 5.8  
 Total Depth 3945 Chlorides 1,200 ppm System LCM 2

Blow Description I.F.-30 - 1/2 INT. Blow Built to (B.O.B. in 13 min.)  
I.S.I.-45 - W.S.B.B. Built to 1/2" in 45 min.)  
E.F.-30 - 1/2 INT. Blow Built to (B.O.B. in 13 min.)  
F.S.I. 45 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Clean oil</u>		<u>100</u>		
<u>189</u>	<u>S, O, C, H, W, C, M</u>	<u>10</u>	<u>40</u>	<u>50</u>	

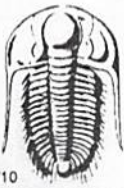
Rec Total 219 BHT \_\_\_\_\_ Gravity 39.6 API RW .19 @ 70 °F Chlorides 39,000 ppm

(A) Initial Hydrostatic 1,942  Test 1150 T-On Location 07:20:00  
 (B) First Initial Flow 23  Jars \_\_\_\_\_ T-Started 08:00:00  
 (C) First Final Flow 98  Safety Joint \_\_\_\_\_ T-Open 11:13:00  
 (D) Initial Shut-In 770  Circ Sub \_\_\_\_\_ T-Pulled 13:43:00  
 (E) Second Initial Flow 103  Hourly Standby \_\_\_\_\_ T-Out 15:20:00  
 (F) Second Final Flow 152  Mileage 118 / R.T. 182.90 Comments \_\_\_\_\_  
 (G) Final Shut-In 760  Sampler \_\_\_\_\_ "Thank-you"  
 (H) Final Hydrostatic 1,931  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1382.90  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1382.90

Approved By \_\_\_\_\_ Our Representative Bob Arnold

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. 56160

Well Name & No. Keith Ficken # 17-3 Test No. 3 Date 3-10-14  
 Company H+C Oil Operating INC. Elevation 2,531 KB 2,525 GL  
 Address P.O. Box 86 Plainville KS. 67663  
 Co. Rep / Geo. Mark Downing / Charles R. Ramsey Rig American Eagle Rig #2  
 Location: Sec. 17 Twp. 9 S. Rge. 24 W. Co. Graham State KS.

Interval Tested 3976-4050 Zone Tested L.K.C. "H-J"  
 Anchor Length 74' Drill Pipe Run 3934 Mud Wt. 9.0  
 Top Packer Depth 3971 Drill Collars Run 31 Vis 52  
 Bottom Packer Depth 3976 Wt. Pipe Run --- WL 5.8  
 Total Depth 4050 Chlorides 1,200 ppm System LCM 2

Blow Description I.F. - 45 - 1/2" INT. Blow Built to (B.O.B. in 27 min)  
I.S.I - 45 - W.S.B.B. @ 45 min.  
E.F. - 45 - 1/2" INT. Blow Built to (B.O.B. in 23 min.)  
E.S.I - 45

Rec	Feet of	%gas	%oil	%water	%mud
<u>350'</u>	<u>(G.I.P.) 252'</u>	<u>100</u>			
<u>40'</u>	<u>G, H, M, L, D</u>	<u>10</u>	<u>50</u>		<u>40</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40' BHT 112 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>1994</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>02:30:00</u>
(B) First Initial Flow <u>19</u>	<input type="checkbox"/> Jars	T-Started <u>02:50:00</u>
(C) First Final Flow <u>36</u>	<input type="checkbox"/> Safety Joint	T-Open <u>04:10:00</u>
(D) Initial Shut-In <u>648</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>07:00:00</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>09:12:30</u>
(F) Second Final Flow <u>53</u>	<input checked="" type="checkbox"/> Mileage <u>118 Rt.</u>	Comments <u>Thank-you</u>
(G) Final Shut-In <u>628</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1951</u>	<input type="checkbox"/> Straddle	

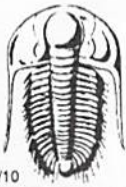
Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45

Sub Total 1432.90

Approved By \_\_\_\_\_ Our Representative Bob Horn

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. 56161

Well Name & No. Keith Ficker #17-3 Test No. 4 Date 3-10-14  
 Company H+C oil operating INC. Elevation 2,531 KB 2,525 GL  
 Address P.O. Box 86 Plainville KS. 67663  
 Co. Rep / Geo. Mark Downing / Charles R. Ramsey Rig American Eagle Rig #2  
 Location: Sec. 17 Twp. 9-S. Rge. 24-W. Co. Graham State KS.

Interval Tested 4049-4090 Zone Tested L.K.C. "K+L"  
 Anchor Length 41 Drill Pipe Run 4,031 Mud Wt. 9.0  
 Top Packer Depth 4044 Drill Collars Run 31 Vis 52  
 Bottom Packer Depth 4049 Wt. Pipe Run \_\_\_\_\_ WL 5.8  
 Total Depth 4090 Chlorides 1,200 ppm System LCM 2

Blow Description I.F-30-1/2 INT. Blow Built to (B.O.B. in 4 min)  
I.S.I-45 W.S.B.B. started @ 4 min. Built to (B.O.B. in 18 min)  
E.F-30-(B.O.B. 1 min.)  
E.S.I-45 W.S.B.B. Built to (B.O.B. in 20 min.)

Rec	Feet of	%gas	%oil	%water	%mud
	<u>819' G.I.P.</u>	<u>100</u>			
<u>558</u>	<u>clean oil</u>		<u>100</u>		

Rec Total 558 BHT 118 Gravity 34.6 API RW — @ — °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2,040  Test 1250 T-On Location 17:00:00  
 (B) First Initial Flow 25  Jars \_\_\_\_\_ T-Started 17:20:00  
 (C) First Final Flow 84  Safety Joint \_\_\_\_\_ T-Open 18:54:00  
 (D) Initial Shut-In 1,212  Circ Sub \_\_\_\_\_ T-Pulled 21:54:00  
 (E) Second Initial Flow 92  Hourly Standby \_\_\_\_\_ T-Out 00:51:45  
 (F) Second Final Flow 142  Mileage 118/R.T 182.90 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,147  Sampler \_\_\_\_\_ "thank you"  
 (H) Final Hydrostatic 2,004  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1432.90  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1432.90

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

Approved By \_\_\_\_\_ Our Representative Bob Adams

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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

7737

Phone 785-483-2025  
Cell 785-324-1041

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

No.

Date	3-4-13	Sec.	17	Twp.	9	Range	24	County	Cherokee	State	KS	On Location		Finish	4:00p.m.		
Lease	Kathy Ficken																
Well No.	17-3																
Contractor	American Energy #3																
Type Job	Surface																
Hole Size	12 1/4																
Csg.	8 5/8																
Tbg. Size																	
Tool																	
Cement Left in Csg.	15																
Meas Line	Displace 1386																
EQUIPMENT																	
Pumptrk	18	No.	Cementer													Common	150
Bulktrk		No.	Driver													Poz. Mix	
Bulktrk	19	No.	Driver													Gel.	3
		No.	Driver													Calcium	5
JOB SERVICES & REMARKS																	
Remarks:																	
Rat Hole																	
Mouse Hole																	
Centralizers																	
Baskets																	
D/V or Port Collar																	
	8 5/8 on bottom. Est + Circulation. Mix 1500cc																
	4 Displace																
	Cement Circulation																
	FLOAT EQUIPMENT																
	Guide Shoe																
	Centralizer																
	Baskets																
	AFU Inserts																
	Float Shoe																
	Latch Down																
	Pumptrk Charge																
	Surface																
	Mileage																
	36																
	Tax																
	Discount																
	Total Charge																
X	Signature																

Conservation Division  
266 N. Main St., Ste. 220  
Wichita, KS 67202-1513



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Shari Feist Albrecht, Chair  
Jay Scott Emler, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

October 14, 2014

Charles R. Ramsay  
H & C Oil Operating Inc.  
PO BOX 86  
PLAINVILLE, KS 67663-0086

Re: ACO-1  
API 15-065-24015-00-00  
Keith-Ficken 17-3  
SW/4 Sec.17-09S-24W  
Graham County, Kansas

Dear Charles R. Ramsay:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 3/4/2014 and the ACO-1 was received on October 06, 2014 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department