



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1090459
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: _____

1090459

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 13, 2012

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

Re: ACO1
API 15-065-23844-00-00
Buss Farms 26-2
NE/4 Sec.26-08S-22W
Graham County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Charles Ramsay



DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operations Inc.**

PO Box 86
Plainville, KS 67663

ATTN: Mike Bair

Buss Farms #26-2

26-8s-22w Graham,KS

Start Date: 2012.08.05 @ 16:30:00

End Date: 2012.08.05 @ 22:44:30

Job Ticket #: 49384 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.13 @ 12:00:04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49384

DST#: 1

ATTN: Mike Bair

Test Start: 2012.08.05 @ 16:30:00

GENERAL INFORMATION:

Formation: **LKC A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:59:00

Time Test Ended: 22:44:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Troy Leiker

Unit No: #42

Interval: 3406.00 ft (KB) To 3456.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

2175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 37.71 psig @ 3439.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.05 End Date: 2012.08.05

Last Calib.: 2012.08.05

Start Time: 16:30:05 End Time: 22:44:29

Time On Btm: 2012.08.05 @ 18:58:30

Time Off Btm: 2012.08.05 @ 21:04:00

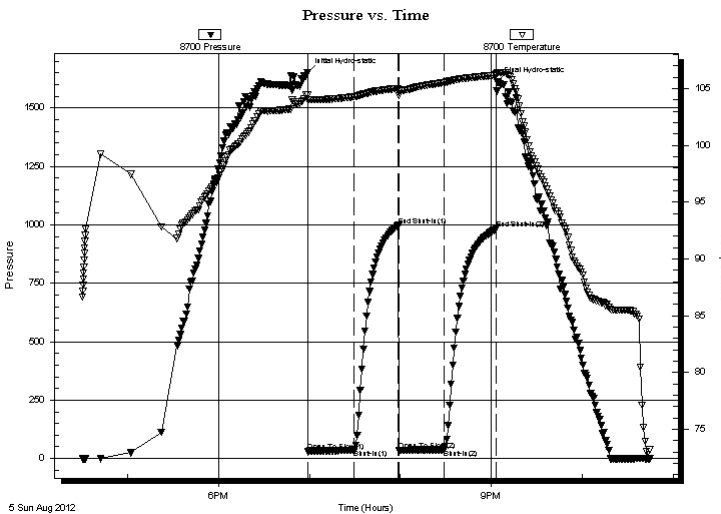
TEST COMMENT: IF 30 Weak blow on top of bkt. Died in 17 min.

IS 30 No blow back

FF 30 No blow

FS 30 No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.04	104.40	Initial Hydro-static
1	31.89	104.02	Open To Flow (1)
31	37.48	104.29	Shut-In(1)
60	997.85	105.02	End Shut-In(1)
61	35.20	104.36	Open To Flow (2)
90	37.71	105.53	Shut-In(2)
125	981.32	106.18	End Shut-In(2)
126	1612.95	106.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operations Inc.

26-8s-22w Graham, KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49384 **DST#: 1**

ATTN: Mike Bair

Test Start: 2012.08.05 @ 16:30:00

GENERAL INFORMATION:

Formation: **LKC A & B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:59:00

Time Test Ended: 22:44:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Troy Leiker

Unit No: #42

Interval: 3406.00 ft (KB) To 3456.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

2175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6625 **Inside**

Press @ Run Depth: psig @ 3439.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.05 End Date: 2012.08.05

Last Calib.: 1899.12.30

Start Time: 16:29:35 End Time: 22:45:29

Time On Btm:

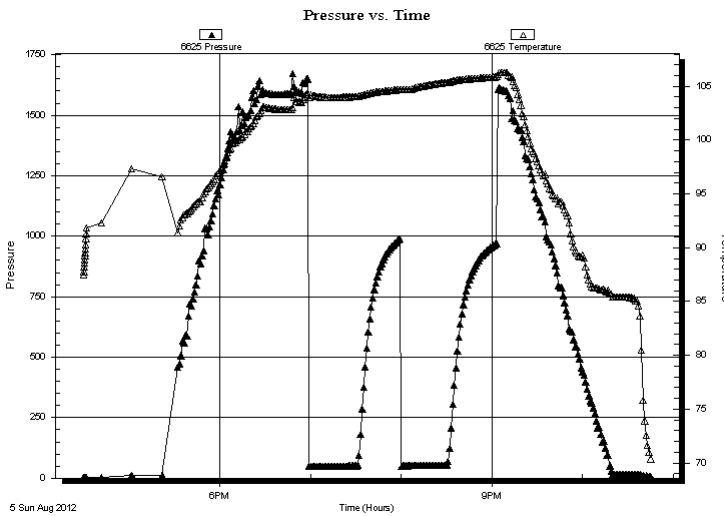
Time Off Btm:

TEST COMMENT: IF 30 Weak blow on top of bkt. Died in 17 min.

IS 30 No blow back

FF 30 No blow

FS 30 No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100%	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49384

DST#: 1

ATTN: Mike Bair

Test Start: 2012.08.05 @ 16:30:00

Tool Information

Drill Pipe:	Length: 3397.00 ft	Diameter: 3.80 inches	Volume: 47.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			Total Volume: 47.65 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3406.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	78.00 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			3379.00	
Shut In Tool	5.00			3384.00	
Hydraulic tool	5.00			3389.00	
Jars	5.00			3394.00	
Safety Joint	2.00			3396.00	
Packer	5.00			3401.00	28.00 Bottom Of Top Packer
Packer	5.00			3406.00	
Stubb	1.00			3407.00	
Change Over Sub	1.00			3408.00	
Perforations	1.00			3409.00	
Drill Pipe	30.00			3439.00	
Recorder	0.00	6625	Inside	3439.00	
Recorder	0.00	8700	Outside	3439.00	
Change Over Sub	1.00			3440.00	
Perforations	13.00			3453.00	
Bullnose	3.00			3456.00	50.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49384

DST#: 1

ATTN: Mike Bair

Test Start: 2012.08.05 @ 16:30:00

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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.56 in³

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100%	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

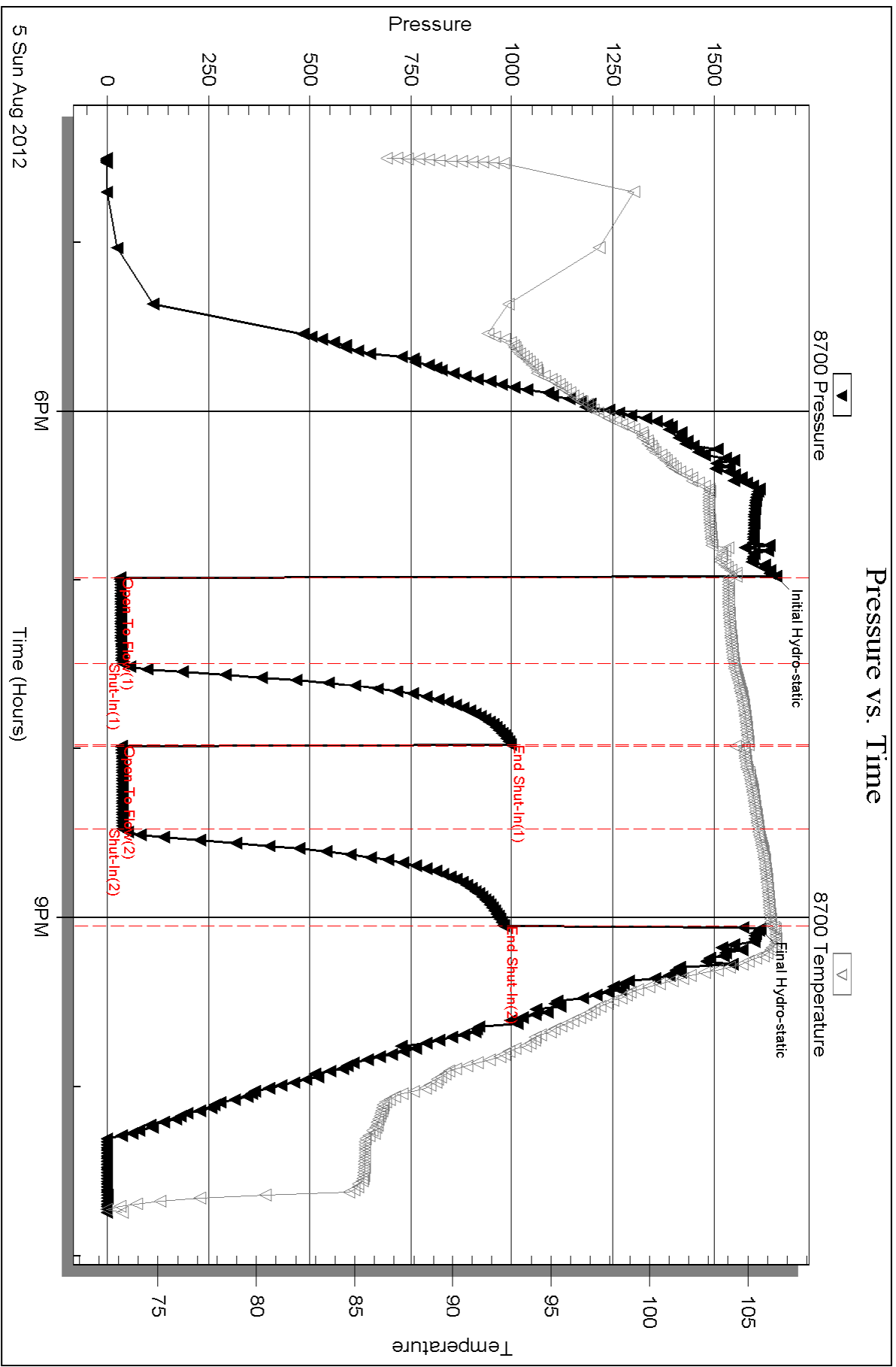
Recovery Comments:

Serial #: 8700

Outside H & C Oil Operations Inc.

Buss Farms #26-2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49384

Printed: 2012.08.13 @ 12:00:08

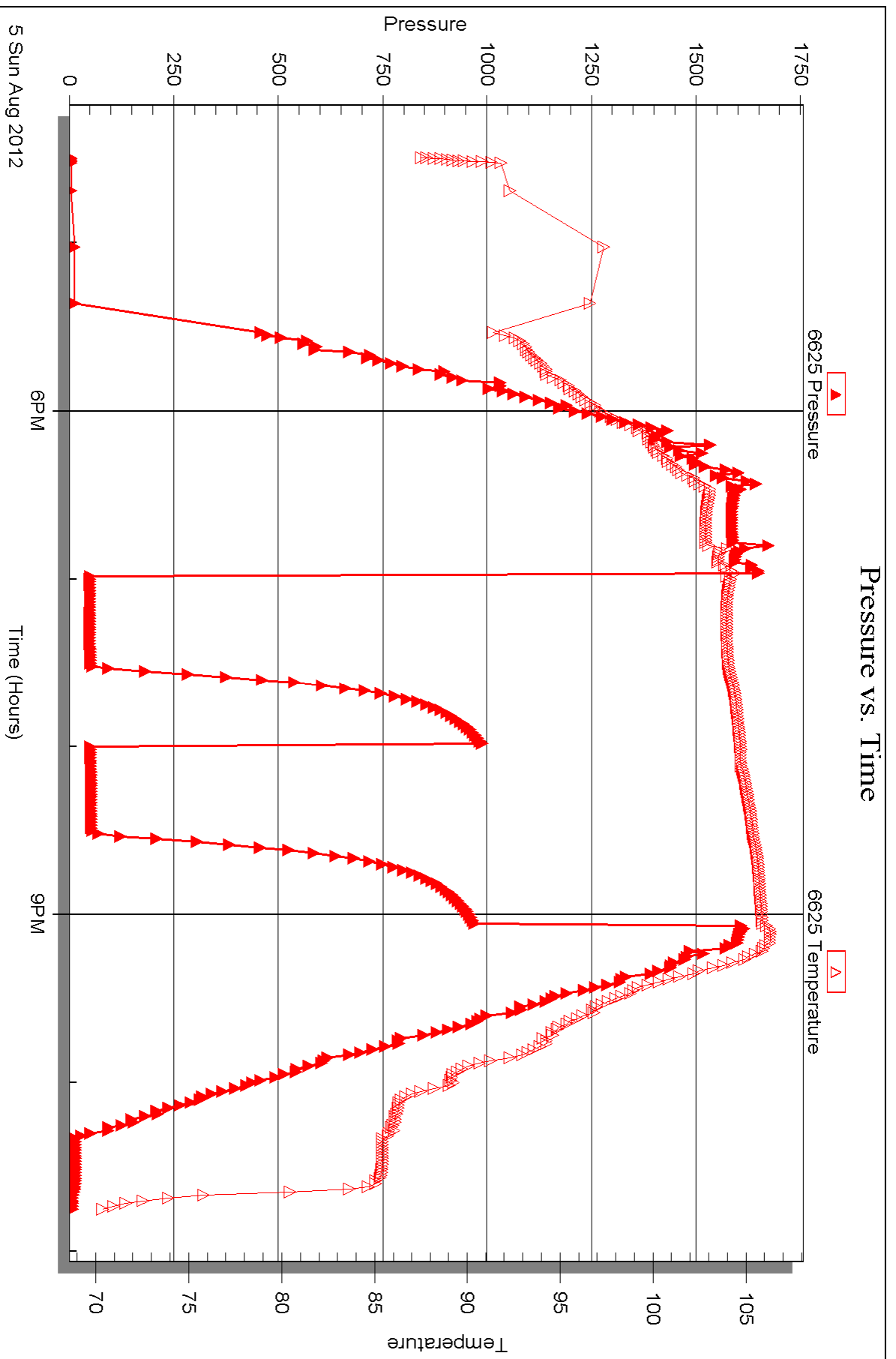
Serial #: 6625

Inside

H & C Oil Operations Inc.

Buss Farms #26-2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49384

Printed: 2012.08.13 @ 12:00:08



DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operations Inc.**

PO Box 86
Plainville, KS 67663

ATTN: Mike Bair

Buss Farms #26-2

26-8s-22w Graham,KS

Start Date: 2012.08.06 @ 11:20:30

End Date: 2012.08.06 @ 16:46:00

Job Ticket #: 49385 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.13 @ 11:59:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49385

DST#: 2

ATTN: Mike Bair

Test Start: 2012.08.06 @ 11:20:30

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:20:30

Time Test Ended: 16:46:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: #42

Interval: 3475.00 ft (KB) To 3514.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3514.00 ft (KB) (TVD)

2175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 22.84 psig @ 3476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.06

End Date:

2012.08.06

Last Calib.:

2012.08.06

Start Time: 11:20:35

End Time:

16:45:59

Time On Btm:

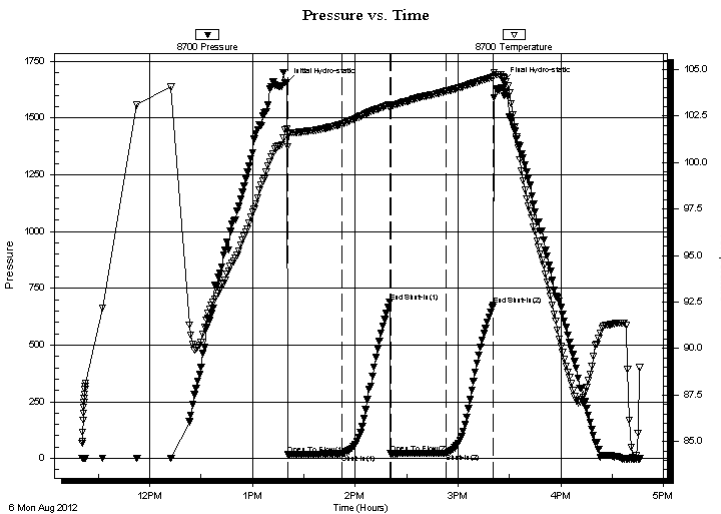
2012.08.06 @ 13:20:00

Time Off Btm:

2012.08.06 @ 15:26:30

TEST COMMENT: IF 30 Very Weak Blow on top of Bkt Died in 10 min.
IS 30 No blow back
FF 30 Small Surge When Tool Opened No Blow
FS 30 No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1658.09	101.80	Initial Hydro-static
1	17.53	100.83	Open To Flow (1)
32	20.42	102.07	Shut-In(1)
60	688.40	103.11	End Shut-In(1)
61	21.14	102.93	Open To Flow (2)
93	22.84	103.83	Shut-In(2)
121	676.50	104.59	End Shut-In(2)
127	1662.85	104.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% _m	0.02

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 Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49385

DST#: 2

ATTN: Mike Bair

Test Start: 2012.08.06 @ 11:20:30

Tool Information

Drill Pipe:	Length: 3425.00 ft	Diameter: 3.80 inches	Volume: 48.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 48.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3475.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 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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Change Over Sub	1.00			3448.00	
Shut In Tool	5.00			3453.00	
Hydraulic tool	5.00			3458.00	
Jars	5.00			3463.00	
Safety Joint	2.00			3465.00	
Packer	5.00			3470.00	28.00 Bottom Of Top Packer
Packer	5.00			3475.00	
Stubb	1.00			3476.00	
Recorder	0.00	6625	Inside	3476.00	
Recorder	0.00	8700	Outside	3476.00	
Perforations	35.00			3511.00	
Bullnose	3.00			3514.00	39.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49385

DST#: 2

ATTN: Mike Bair

Test Start: 2012.08.06 @ 11:20:30

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

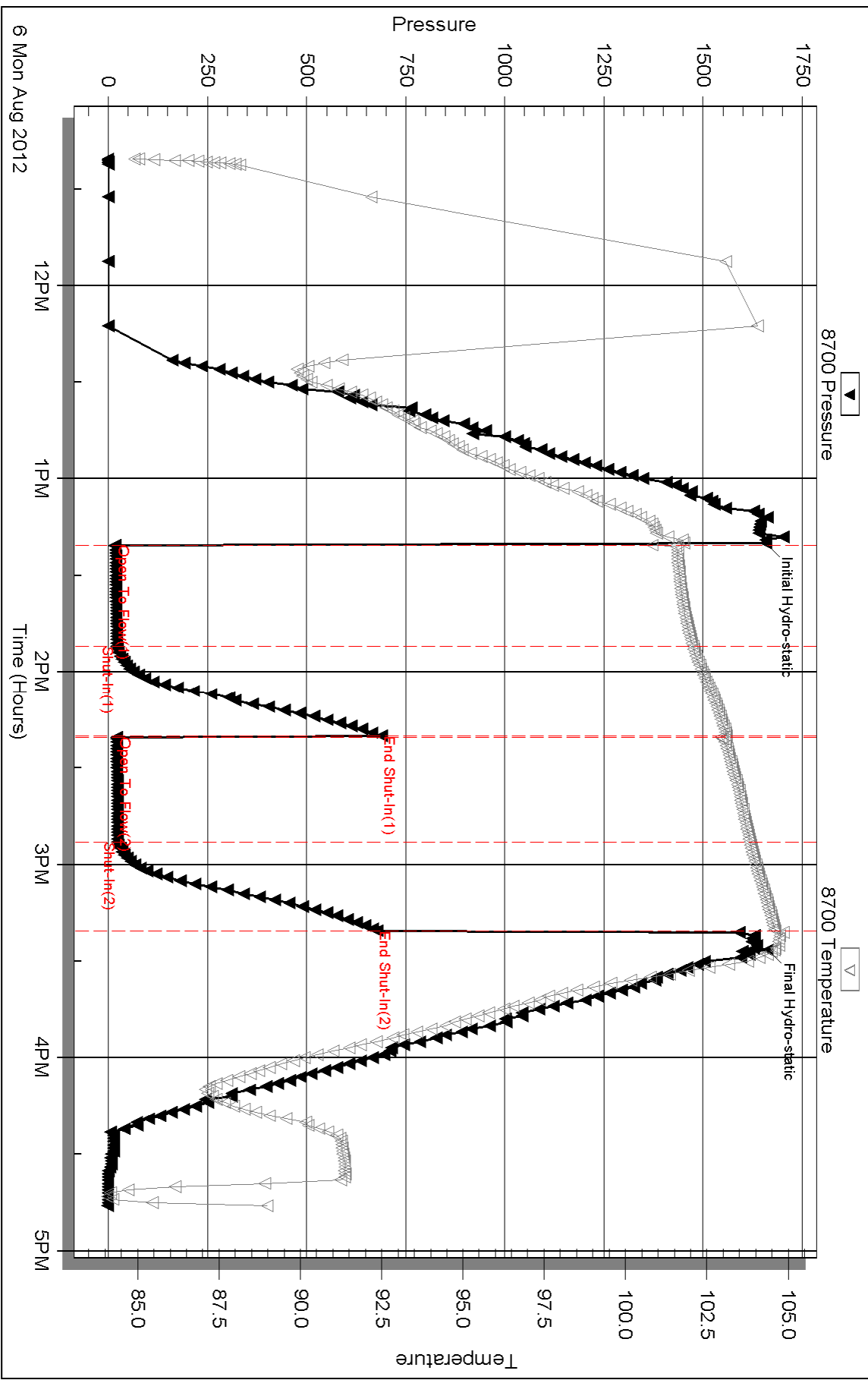
Serial #: 8700

Outside H & C Oil Operations Inc.

Buss Farms #26-2

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49385

Printed: 2012.08.13 @ 11:59:16



DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operations Inc.**

PO Box 86
Plainville, KS 67663

ATTN: Mike Bair

Buss Farms #26-2

26-8s-22w Graham,KS

Start Date: 2012.08.07 @ 05:52:00

End Date: 2012.08.07 @ 10:23:00

Job Ticket #: 49386 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.13 @ 11:58:15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operations Inc.

26-8s-22w Graham, KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49386

DST#: 3

ATTN: Mike Bair

Test Start: 2012.08.07 @ 05:52:00

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:45:00

Time Test Ended: 10:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: #42

Interval: 3520.00 ft (KB) To 3588.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

2175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 35.65 psig @ 3555.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.07

End Date:

2012.08.07

Last Calib.:

2012.08.07

Start Time:

05:52:05

End Time:

11:20:59

Time On Btm:

2012.08.07 @ 07:44:30

Time Off Btm:

2012.08.07 @ 09:46:00

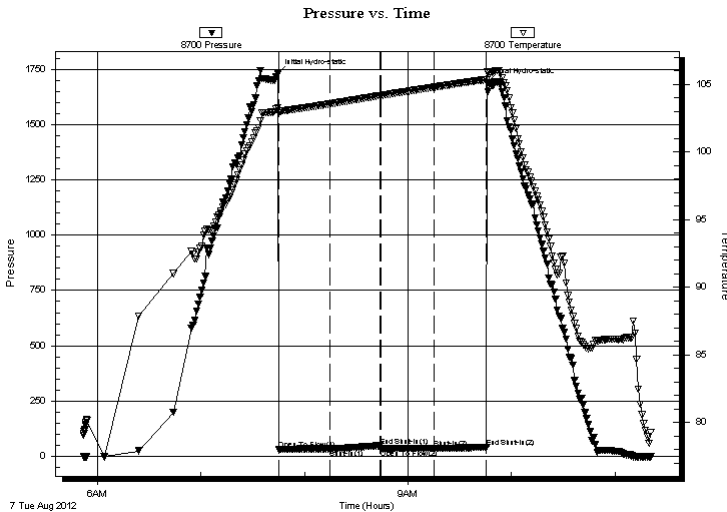
TEST COMMENT: IF 30 Weak Blow on top of Bkt. Died in 15 min.

IS 30 No Blow Back

FF 30 No Blow

FS 30 No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1728.44	103.29	Initial Hydro-static
1	33.22	102.90	Open To Flow (1)
31	34.74	103.57	Shut-In(1)
59	47.90	104.17	End Shut-In(1)
60	34.99	104.17	Open To Flow (2)
91	35.65	104.79	Shut-In(2)
121	41.75	105.37	End Shut-In(2)
122	1687.12	105.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100% _m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49386

DST#: 3

ATTN: Mike Bair

Test Start: 2012.08.07 @ 05:52:00

GENERAL INFORMATION:

Formation: **LKC H-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:45:00

Time Test Ended: 10:23:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: #42

Interval: 3520.00 ft (KB) To 3588.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

2175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press @ Run Depth: psig @ 3555.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.07

End Date:

2012.08.07

Last Calib.:

2012.08.07

Start Time: 05:52:19

End Time:

11:22:13

Time On Btm:

Time Off Btm:

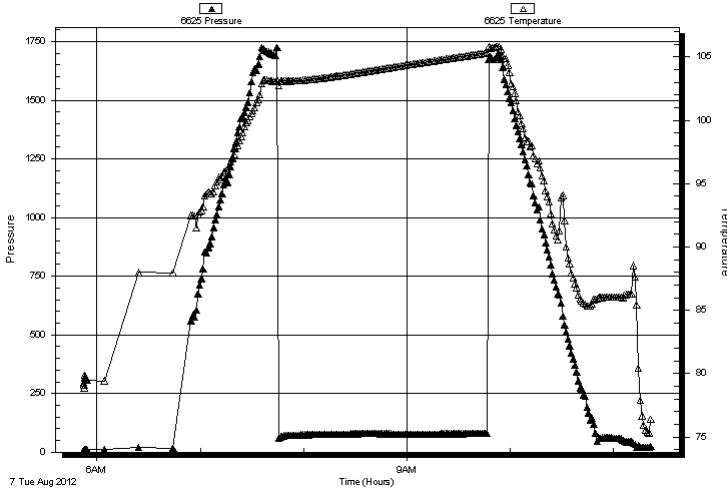
TEST COMMENT: IF 30 Weak Blow on top of Bkt. Died in 15 min.

IS 30 No Blow Back

FF 30 No Blow

FS 30 No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%m	0.01

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 Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49386

DST#: 3

ATTN: Mike Bair

Test Start: 2012.08.07 @ 05:52:00

Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3520.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3493.00	
Shut In Tool	5.00			3498.00	
Hydraulic tool	5.00			3503.00	
Jars	5.00			3508.00	
Safety Joint	2.00			3510.00	
Packer	5.00			3515.00	28.00 Bottom Of Top Packer
Packer	5.00			3520.00	
Stubb	1.00			3521.00	
Change Over Sub	1.00			3522.00	
Perforations	1.00			3523.00	
Drill Pipe	32.00			3555.00	
Recorder	0.00	6625	Inside	3555.00	
Recorder	0.00	8700	Outside	3555.00	
Change Over Sub	1.00			3556.00	
Perforations	29.00			3585.00	
Bullnose	3.00			3588.00	68.00 Bottom Packers & Anchor
Total Tool Length:	96.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49386

DST#: 3

ATTN: Mike Bair

Test Start: 2012.08.07 @ 05:52:00

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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100%m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

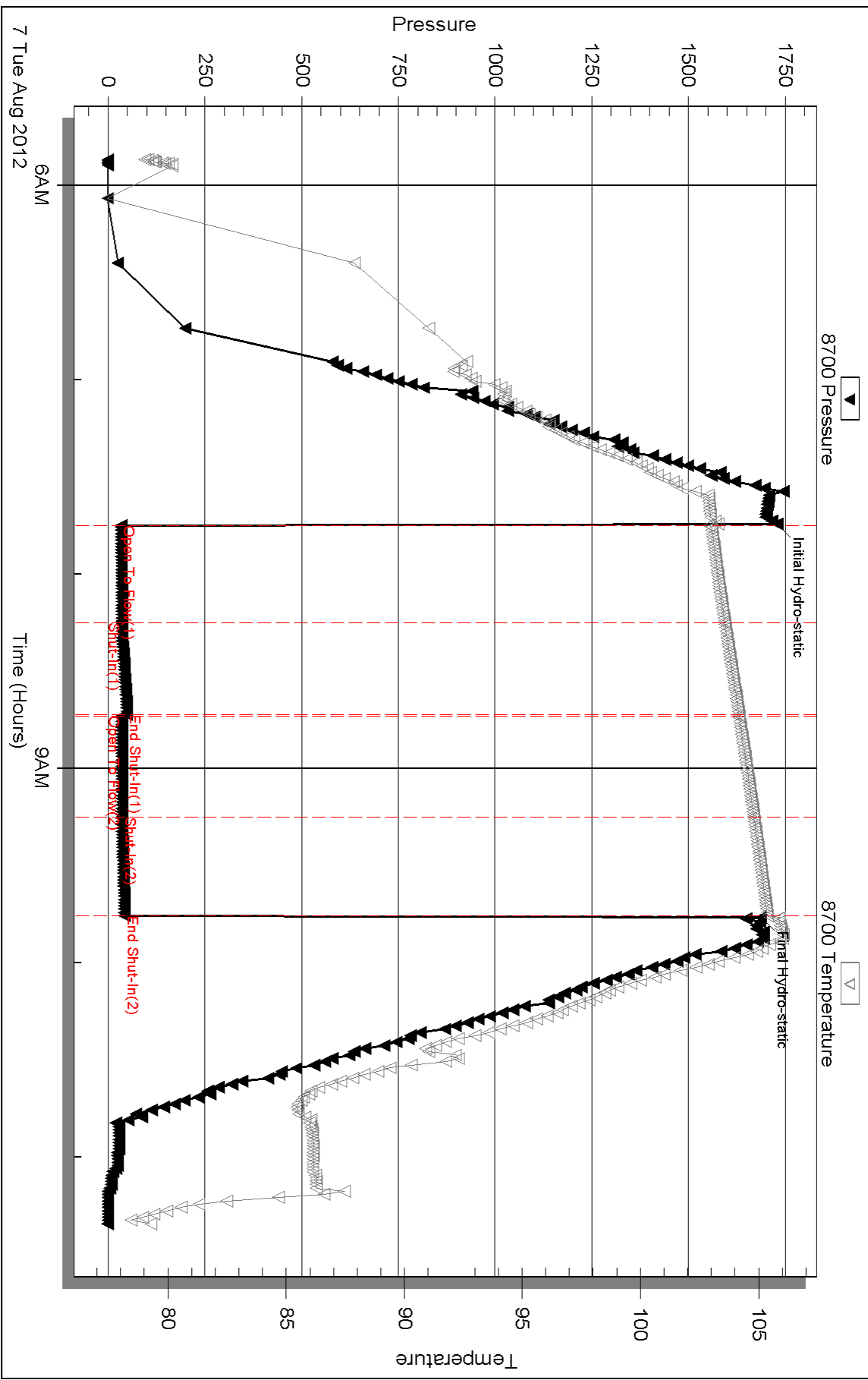
Serial #: 8700

Outside H & C Oil Operations Inc.

Buss Farms #26-2

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49386

Printed: 2012.08.13 @ 11:58:19

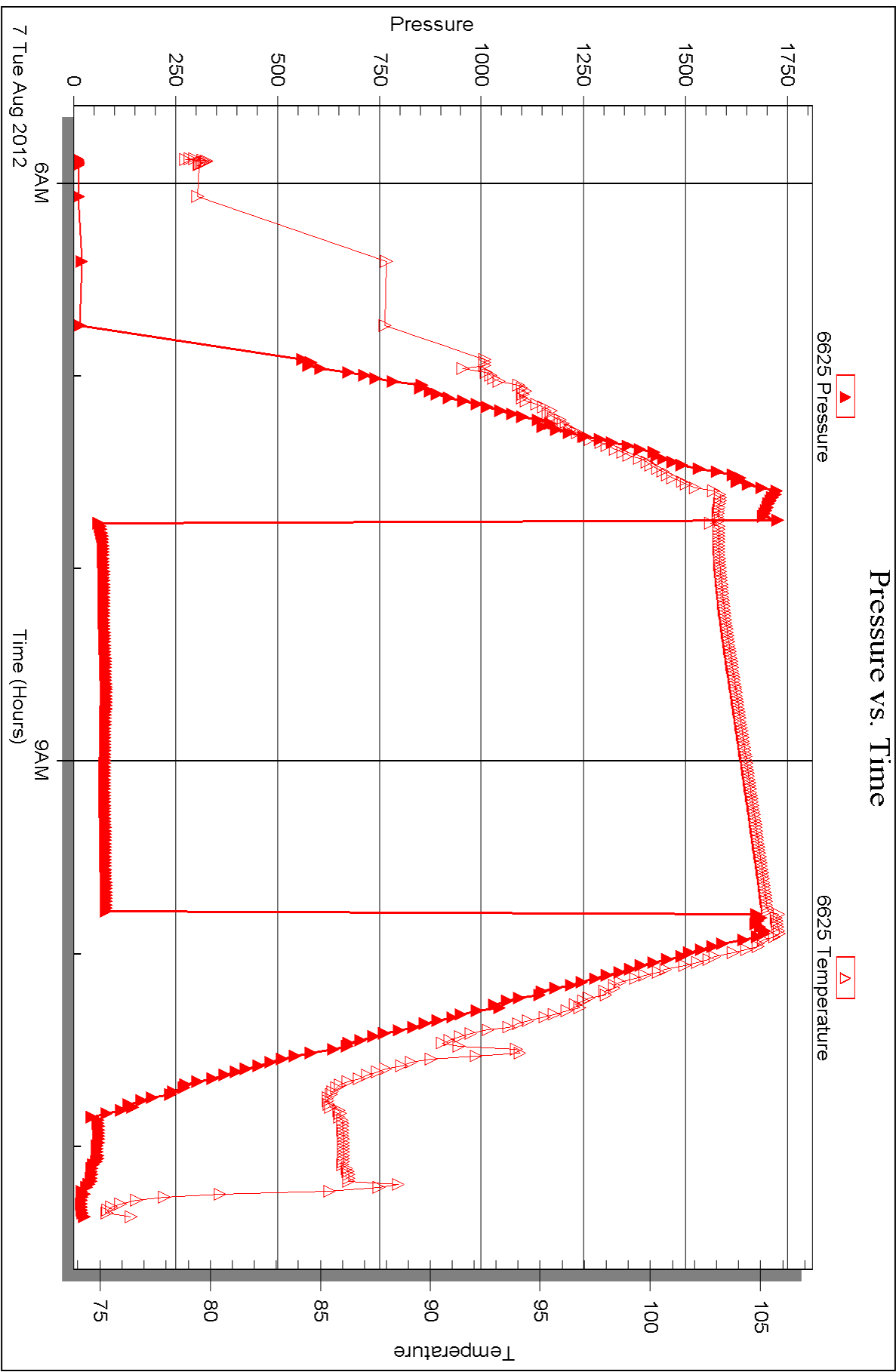
Serial #: 6625

Inside

H & C Oil Operations Inc.

Buss Farms #26-2

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operations Inc.**

PO Box 86
Plainville, KS 67663

ATTN: Mike Bair

Buss Farms #26-2

26-8s-22w Graham,KS

Start Date: 2012.08.07 @ 19:25:00

End Date: 2012.08.08 @ 01:15:00

Job Ticket #: 49387 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.13 @ 11:57:32



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49387

DST#: 4

ATTN: Mike Bair

Test Start: 2012.08.07 @ 19:25:00

GENERAL INFORMATION:

Formation: **LKC K&L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:33:30

Time Test Ended: 01:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: #42

Interval: 3581.00 ft (KB) To 3620.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

2175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 21.87 psig @ 3617.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.07

End Date:

2012.08.08

Last Calib.: 2012.08.08

Start Time: 19:25:05

End Time:

01:14:59

Time On Btm: 2012.08.07 @ 21:33:00

Time Off Btm: 2012.08.07 @ 23:34:30

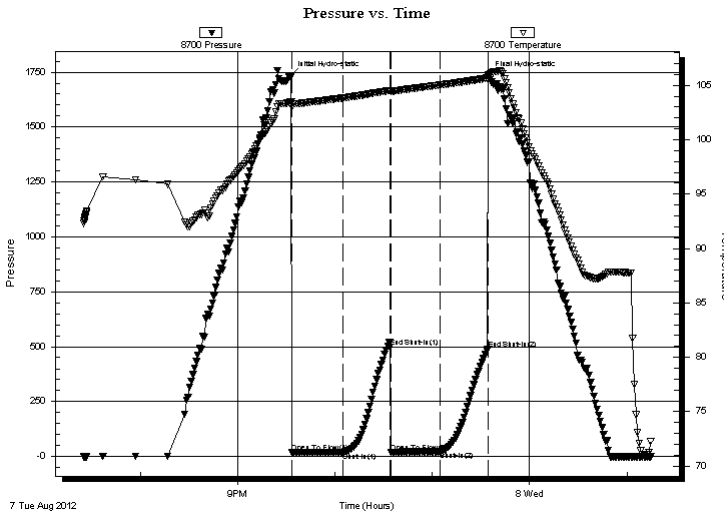
TEST COMMENT: IF 30 Very Weak Blow on top of Bkt. Died in 12 min.

IS 30 No Blow Back

FF 30 No Blow

FS 30 No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.16	103.54	Initial Hydro-static
1	17.36	102.99	Open To Flow (1)
32	19.29	103.85	Shut-In(1)
61	499.16	104.52	End Shut-In(1)
62	20.18	104.43	Open To Flow (2)
92	21.87	105.04	Shut-In(2)
121	488.81	105.67	End Shut-In(2)
122	1734.94	105.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.01

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operations Inc.

26-8s-22w Graham, KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49387

DST#: 4

ATTN: Mike Bair

Test Start: 2012.08.07 @ 19:25:00

GENERAL INFORMATION:

Formation: **LKC K&L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:33:30

Time Test Ended: 01:15:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: #42

Interval: 3581.00 ft (KB) To 3620.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3456.00 ft (KB) (TVD)

2175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8369 Inside

Press @ Run Depth: psig @ 3617.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.07 End Date: 2012.08.08

Last Calib.: 2012.08.08

Start Time: 19:24:05 End Time: 01:14:59

Time On Btm: 2012.08.07 @ 21:33:00

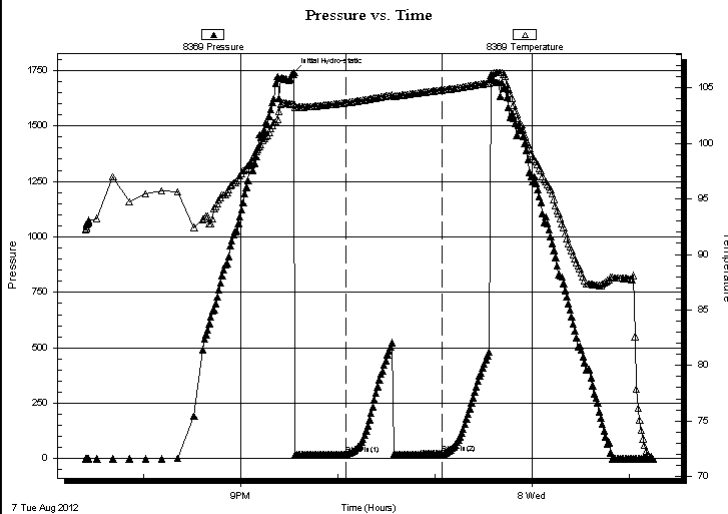
Time Off Btm:

TEST COMMENT: IF 30 Very Weak Blow on top of Bkt. Died in 12 min.

IS 30 No Blow Back

FF 30 No Blow

FS 30 No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.42	103.58	Initial Hydro-static
32	19.32	103.67	Shut-In(1)
92	22.37	104.81	Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.01

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 Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49387

DST#: 4

ATTN: Mike Bair

Test Start: 2012.08.07 @ 19:25:00

Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3581.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 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			3554.00	
Shut In Tool	5.00			3559.00	
Hydraulic tool	5.00			3564.00	
Jars	5.00			3569.00	
Safety Joint	2.00			3571.00	
Packer	5.00			3576.00	28.00 Bottom Of Top Packer
Packer	5.00			3581.00	
Stubb	1.00			3582.00	
Perforations	35.00			3617.00	
Recorder	0.00	8369	Inside	3617.00	
Recorder	0.00	8700	Outside	3617.00	
Bullnose	3.00			3620.00	39.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49387

DST#: 4

ATTN: Mike Bair

Test Start: 2012.08.07 @ 19:25:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 1.50 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100%	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

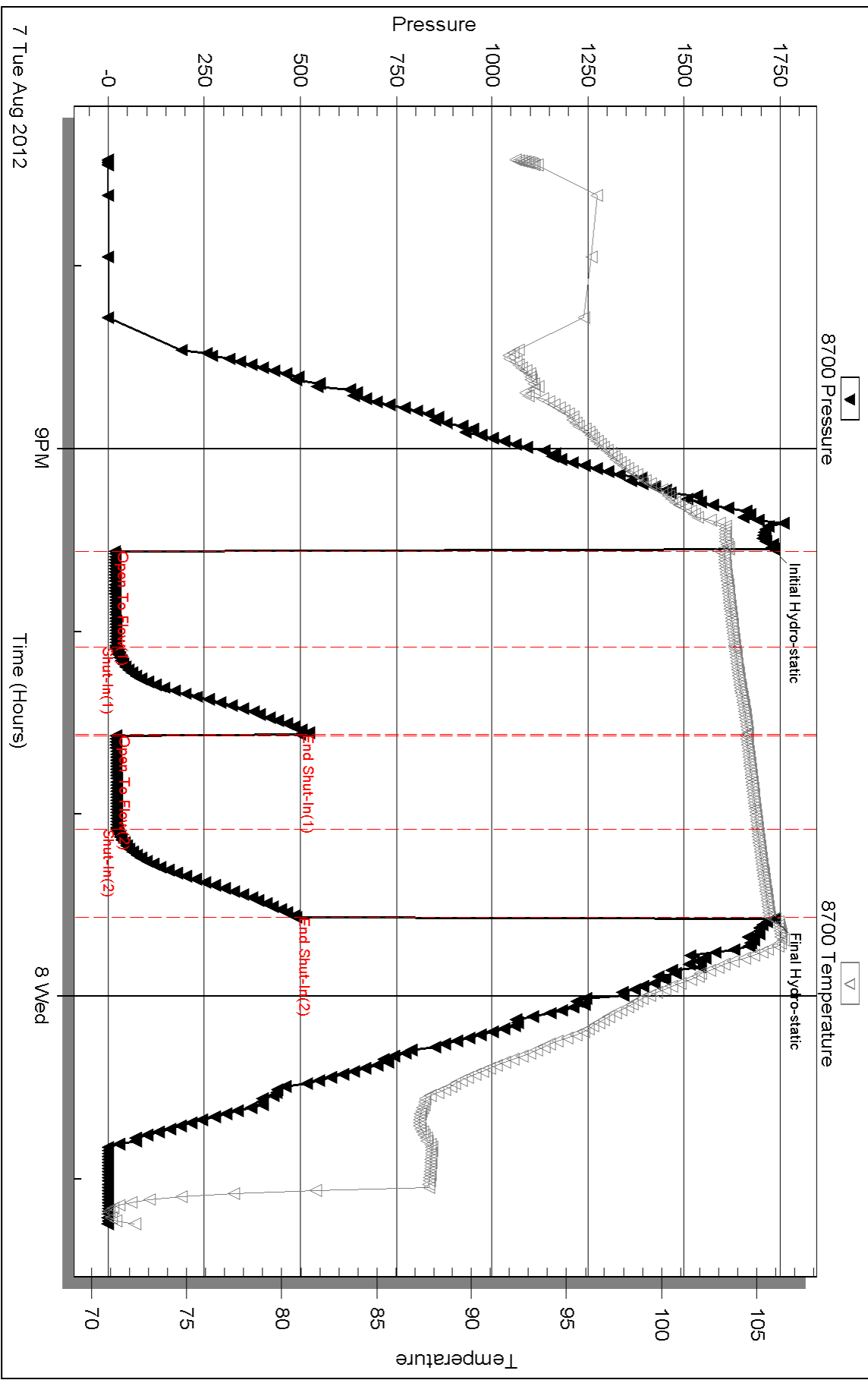
Serial #:

Laboratory Name:

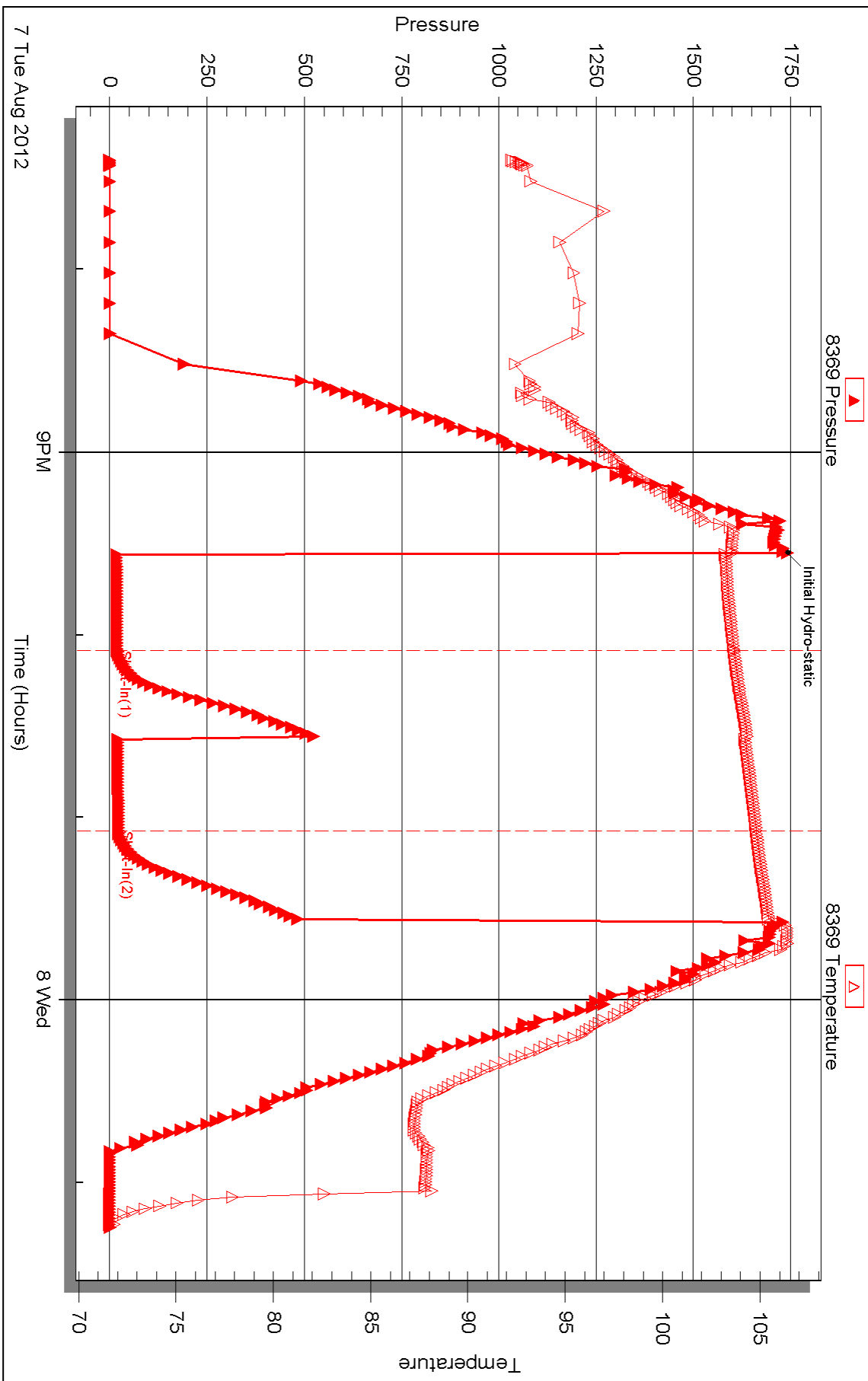
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operations Inc.**

PO Box 86
Plainville, KS 67663

ATTN: Mike Bair

Buss Farms #26-2

26-8s-22w Graham,KS

Start Date: 2012.08.08 @ 17:05:00

End Date: 2012.08.08 @ 22:59:00

Job Ticket #: 49388 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.13 @ 11:56:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49388

DST#: 5

ATTN: Mike Bair

Test Start: 2012.08.08 @ 17:05:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:14:30

Time Test Ended: 22:59:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: #42

Interval: 3668.00 ft (KB) To 3756.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3756.00 ft (KB) (TVD)

2175.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8700 Outside

Press @ Run Depth: 65.34 psig @ 3733.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.08

End Date: 2012.08.08

Last Calib.: 2012.08.08

Start Time: 17:05:05

End Time: 22:58:59

Time On Btm: 2012.08.08 @ 19:14:00

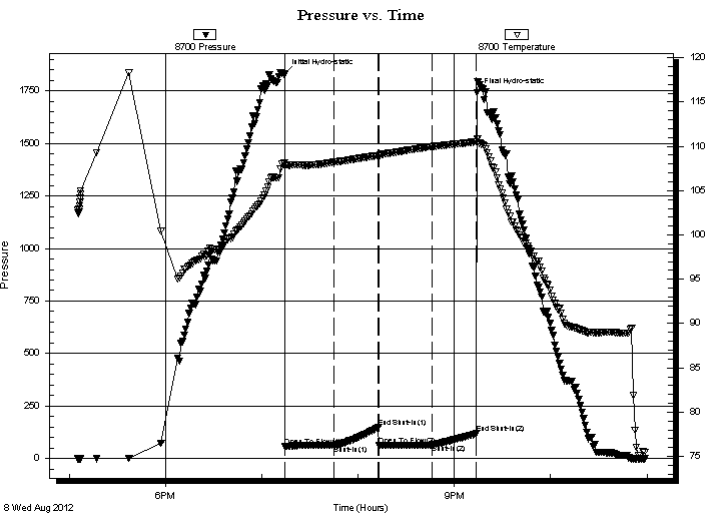
Time Off Btm: 2012.08.08 @ 21:14:00

TEST COMMENT: IF 30 Very Weak Blow on top of Bkt. Died in 12 min.

IS 30 No Blow Back

FF 30 No Blow

FS 30 No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1830.49	108.13	Initial Hydro-static
1	56.17	107.77	Open To Flow (1)
31	62.53	108.21	Shut-In(1)
59	148.23	108.98	End Shut-In(1)
59	62.42	108.96	Open To Flow (2)
92	65.34	109.97	Shut-In(2)
120	118.17	110.52	End Shut-In(2)
120	1742.19	110.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% _m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operations Inc.

PO Box 86
Plainville, KS 67663

ATTN: Mike Bair

26-8s-22w Graham, KS

Buss Farms #26-2

Job Ticket: 49388

DST#: 5

Test Start: 2012.08.08 @ 17:05:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:14:30

Time Test Ended: 22:59:00

Interval: 3668.00 ft (KB) To 3756.00 ft (KB) (TVD)

Total Depth: 3756.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Troy Leiker

Unit No: #42

Reference Elevations: 2180.00 ft (KB)

2175.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8369

Inside

Press @ Run Depth: psig @ 3733.00 ft (KB)

Start Date: 2012.08.08 End Date: 2012.08.08

Start Time: 17:05:05 End Time: 23:00:29

Capacity: 8000.00 psig

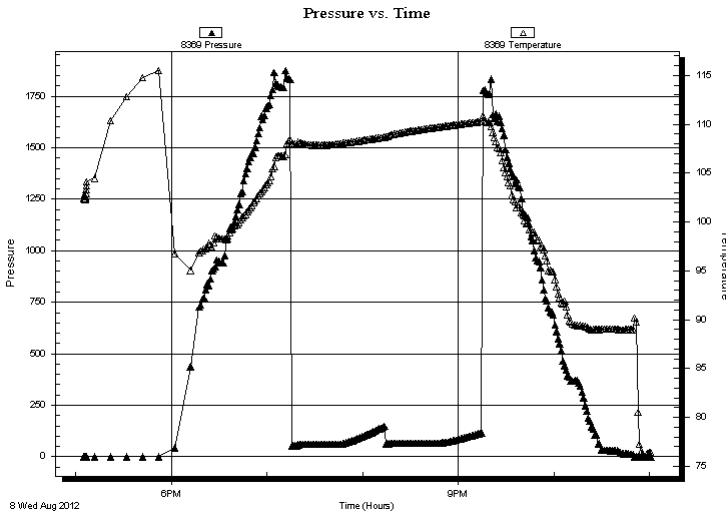
Last Calib.: 2012.08.08

Time On Btm:

Time Off Btm:

TEST COMMENT: IF 30 Very Weak Blow on top of Bkt. Died in 12 min.
IS 30 No Blow Back
FF 30 No Blow
FS 30 No Blow Back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100% _m	0.02

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 Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49388

DST#: 5

ATTN: Mike Bair

Test Start: 2012.08.08 @ 17:05:00

Tool Information

Drill Pipe:	Length: 3614.00 ft	Diameter: 3.80 inches	Volume: 50.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 50.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3668.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3641.00	
Shut In Tool	5.00			3646.00	
Hydraulic tool	5.00			3651.00	
Jars	5.00			3656.00	
Safety Joint	2.00			3658.00	
Packer	5.00			3663.00	28.00 Bottom Of Top Packer
Packer	5.00			3668.00	
Stubb	1.00			3669.00	
Perforations	1.00			3670.00	
Change Over Sub	1.00			3671.00	
Drill Pipe	62.00	Outside		3733.00	
Recorder	0.00	8369	Inside	3733.00	
Recorder	0.00	8700	Outside	3733.00	
Change Over Sub	1.00			3734.00	
Perforations	19.00			3753.00	
Bullnose	3.00			3756.00	88.00 Bottom Packers & Anchor
Total Tool Length:	116.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operations Inc.

26-8s-22w Graham,KS

PO Box 86
Plainville, KS 67663

Buss Farms #26-2

Job Ticket: 49388

DST#: 5

ATTN: Mike Bair

Test Start: 2012.08.08 @ 17:05:00

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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.56 in³

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

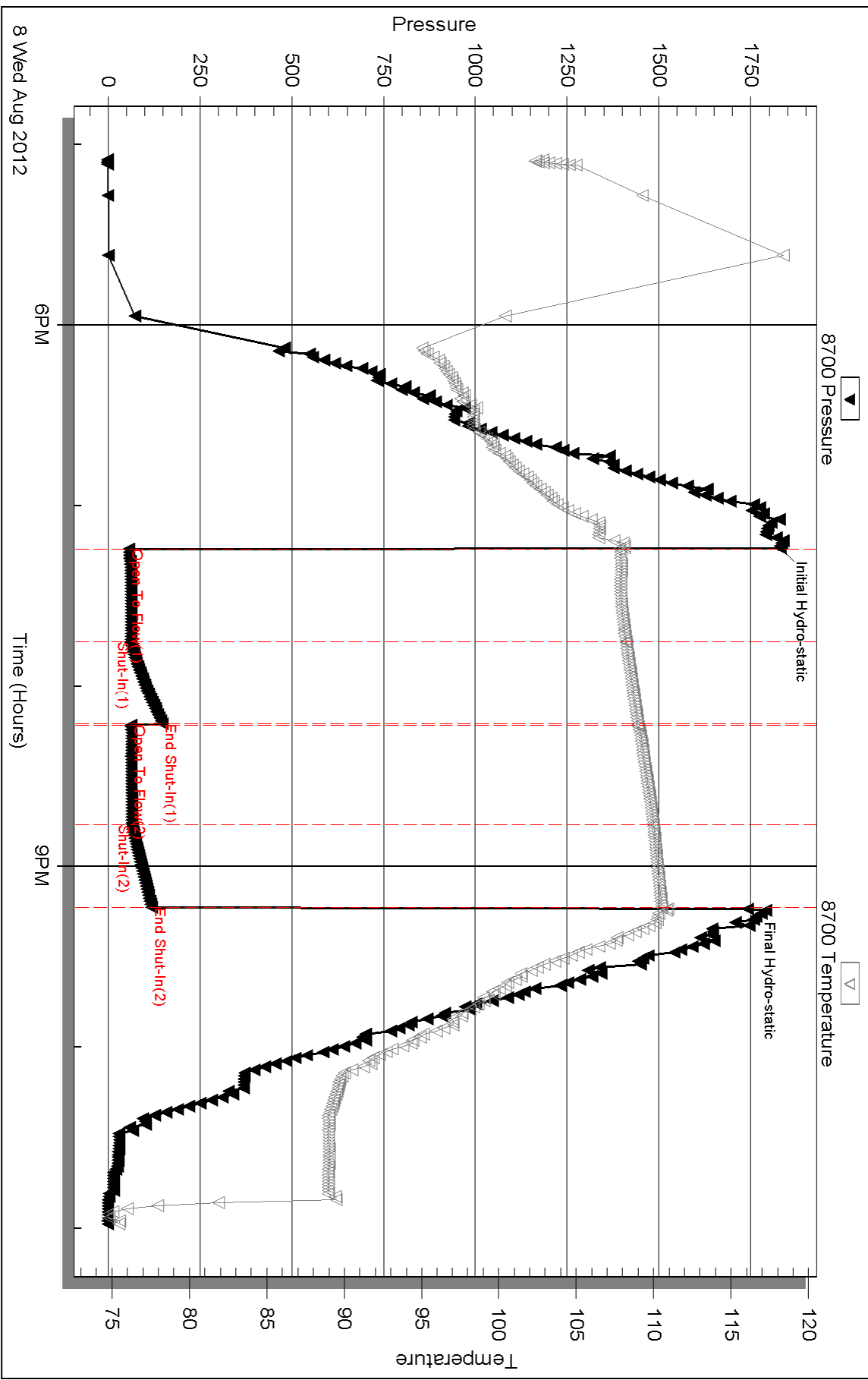
Serial #: 8700

Outside H & C Oil Operations Inc.

Buss Farms #26-2

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49388

Printed: 2012.08.13 @ 11:56:41

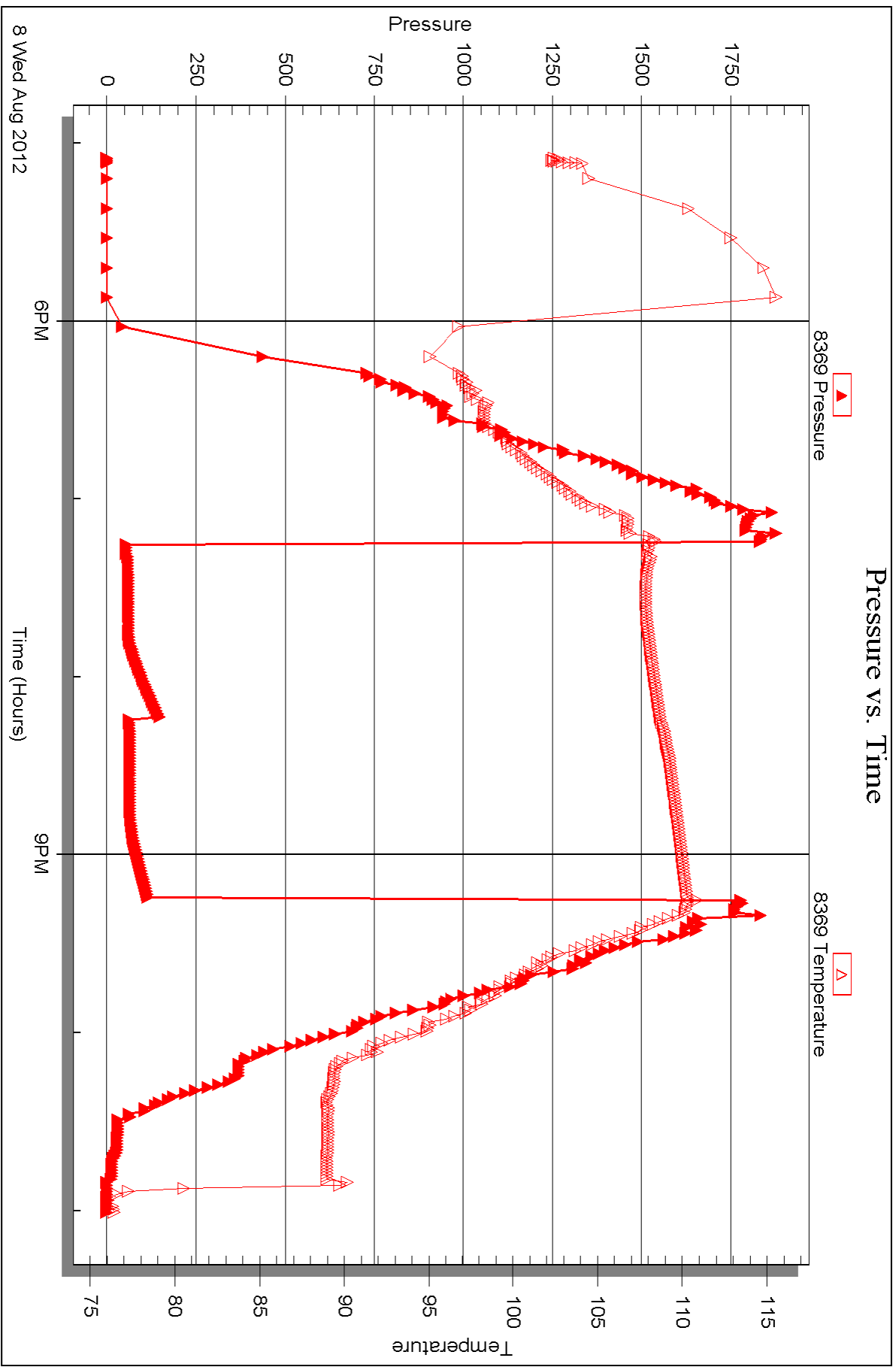
Serial #: 8369

Inside

H & C Oil Operations Inc.

Buss Farms #26-2

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49384

4/10

Well Name & No. Buss Farms #26-2 Test No. 1 Date 8-5-12
 Company H&C Oil Operations, Inc. Elevation 2180 KB 2175 GL
 Address P.O. Box 86 Plainville, KS. 67663
 Co. Rep / Geo. Mike Bair Rig American Eagle Rig #3
 Location: Sec. 26 Twp. 8 S Rge. 22 W Co. Graham State KS.

Interval Tested 3406 - 3456 Zone Tested Lansing KC A & B
 Anchor Length 50' Drill Pipe Run 3397 Mud Wt. 8.7
 Top Packer Depth 3401 Drill Collars Run 0 Vis 70
 Bottom Packer Depth 3406 Wt. Pipe Run 0 WL 7.6
 Total Depth 3456 Chlorides 800 ppm System LCM 2

Blow Description 1st Flow - Very Weak Blow on top of OKT. Died in 17 min.
1st Shut - no Blow back
2nd Flow - no Blow
2nd Shut - no Blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud 100% m</u>			<u>100</u>	

Rec Total 10' BHT 94° Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1652</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1:30 pm</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>4:30 pm</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>7:00 pm</u>
(D) Initial Shut-In <u>997</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:00 pm</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:45 pm</u>
(F) Second Final Flow <u>37</u>	<input checked="" type="checkbox"/> Mileage <u>68 x 2 Hays</u> 210.80	Comments _____
(G) Final Shut-In <u>981</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1412</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1685.80</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1685.80</u>	

Approved By _____ Our Representative Troy Keiter

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49385

4/10

Well Name & No. Buss Farms #26-2 Test No. 2 Date 8-6-12
 Company H&C Oil Operations, INC Elevation 2180 KB 2175 GL
 Address P.O. Box 86 Plainville, KS. 67663
 Co. Rep / Geo. Mike Bair Rig American Eagle Rig #3
 Location: Sec. 26 Twp. 8 S Rge. 22 W Co. Graham State KS.

Interval Tested 3475 - 3514 Zone Tested Lansing KC C zone
 Anchor Length 39' Drill Pipe Run 3425' Mud Wt. 8.7
 Top Packer Depth 3470 Drill Collars Run 30' Vis 54
 Bottom Packer Depth 3475 Wt. Pipe Run 0 WL 8.0
 Total Depth 3514 Chlorides 1,000 ppm System LCM 2

Blow Description 1st Flow - Very weak Blow on top of BKT, Died in 10 min.
1st shut - no Blow Back
2nd Flow - Small surge when tool opened, no Blow
2nd shut - no Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 5' BHT 104' Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1658 Test 1150 T-On Location 10:15 AM
 (B) First Initial Flow 17 Jars 250 T-Started 11:20 AM
 (C) First Final Flow 20 Safety Joint 75 T-Open 1:30 pm
 (D) Initial Shut-In 688 Circ Sub _____ T-Pulled 3:30 pm
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 4:55 pm
 (F) Second Final Flow 22 Mileage 68x2 210.80 Hays Comments _____
 (G) Final Shut-In 676 Sampler _____
 (H) Final Hydrostatic 1662 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1685.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1685.80

Approved By _____ Our Representative Troy Leiker

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49386

4/10

Well Name & No. Buss Farms #26-2 Test No. 3 Date 8-6-12
 Company H & C Oil Operations, Inc. Elevation 2180 KB 2175 GL
 Address P.O. Box 86 Plainville, KS. 67663
 Co. Rep / Geo. Mike Bair Rig American Eagle #3
 Location: Sec. 26 Twp. 85 Rge. 22 W Co. Graham State KS.

Interval Tested 3520-3588 Zone Tested Lansing KC H, I, J
 Anchor Length 68' Drill Pipe Run 3487 ~~3500~~ ~~3510~~ Mud Wt. 8.7
 Top Packer Depth 3515 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3520 Wt. Pipe Run 0 WL 8.0
 Total Depth 3588 Chlorides 1,000 ppm System LCM 2
 Blow Description 1st Flow - Weak Blow on Top of BKT, Died in 15min.
1st Shut - no Blow Back
2nd Flow - no Blow
2nd Shut - no Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Mud</u>			<u>100</u>	

Rec Total 3 BHT 94° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1728</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1:45 Am</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>5:52 Am</u>
(C) First Final Flow <u>34</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>7:46 Am</u>
(D) Initial Shut-In <u>47</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:46 Am</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby	T-Out _____
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>68 x 2 210.80 Hays</u>	Comments _____
(G) Final Shut-In <u>41</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>1687</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1685.80</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1685.80</u>	

Approved By _____ Our Representative Troy Leiker

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TRILLOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49387

4/10

Well Name & No. Buss Farms #26-2 Test No. 4 Date 8-7-12
 Company H&C Oil Operations, Inc. Elevation 2180 KB 2175 GL
 Address P.O. Box 86 Plainville, KS. 67663
 Co. Rep / Geo. Mike Bair Rig American Eagle #3
 Location: Sec. 26 Twp. 8 S Rge. 22 W Co. Graham State KS.

Interval Tested 3581 - 3620 Zone Tested Lansing KC K&L zones
 Anchor Length 39' Drill Pipe Run 3550 Mud Wt. 8.9
 Top Packer Depth 3576 Drill Collars Run 30 Vis 61
 Bottom Packer Depth 3581 Wt. Pipe Run 0 WL 8.0
 Total Depth 3620 Chlorides 1,000 ppm System LCM ~~4.5~~ 1 1/2
 Blow Description 1st Flow - Very Weak Bbw on top of BKT, died in 11 min.
1st Shut - no Blow Back
2nd Flow - no Blow
2nd Shut - no Blow Back

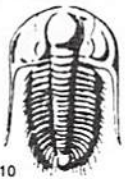
Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Mud</u>			<u>100</u>	

Rec Total 3' BHT 93° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1732</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>6:30 PM</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>7:25 PM</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>9:35 PM</u>
(D) Initial Shut-In <u>499</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>11:35 PM</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1:16 AM</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>68 x 2 Hays</u> 210.80	Comments _____
(G) Final Shut-In <u>488</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1734</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1685.80</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1685.80</u>	

Approved By _____ Our Representative Troy Leiker

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49388

Well Name & No. Buss Farms #26-2 Test No. 5 Date 8-8-12
 Company H&C Oil Operations, Inc. Elevation 2180 KB 2175 GL
 Address P.O. Box 86 Plainville, KS. 67663
 Co. Rep / Geo. Mike Bair Rig American Eagle #3
 Location: Sec. 26 Twp. 8 S Rge. 22 W Co. Graham State KS.

Interval Tested 3668-3756 Zone Tested Arbuckle
 Anchor Length 88' Drill Pipe Run 3614 Mud Wt. 9
 Top Packer Depth 3663 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3668 Wt. Pipe Run 0 WL 8.0
 Total Depth 3756 Chlorides 1500 ppm System LCM 1 1/2
 Blow Description 1st Flow - Very Weak Blow on Top of BKT, Died in 12 min.
1st Shut - no Blow Back
2nd Flow - no Blow
2nd Shut - no Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 5 BHT 110 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1830 Test 1150 T-On Location 4:30 pm
 (B) First Initial Flow 56 Jars 250 T-Started 5:05 pm
 (C) First Final Flow 62 Safety Joint 75 T-Open 7:15 pm
 (D) Initial Shut-In 148 Circ Sub _____ T-Pulled 9:15 pm
 (E) Second Initial Flow 62 Hourly Standby _____ T-Out 11:00 pm
 (F) Second Final Flow 65 Mileage 68 x 2 210.80 Hays Comments _____
 (G) Final Shut-In 118 Sampler _____
 (H) Final Hydrostatic 1742 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1685.80
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1685.80

Approved By _____ Our Representative Troy Leiker

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QUALITY CILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 767

Date	8.1.12	Sec.	26	Twp.	22	Range	22	County	Craham	State	KS	On Location		Finish	11:45 Pm.
Lease	h	Well No.	2267					Location	Begues PRD 2wto 330 1s 1/8w S into						
Contractor	American Eagle #3														
Type Job	Surface														
Hole Size	12 1/4														
Csg.	8 5/8														
Tbg. Size															
Tool															
Cement Left in Csg.	15'														
Meas Line	Displace 14 Bl														

EQUIPMENT

Pumptrk	5	No.	Cemented	
			Helper	
Bulktrk		No.	Driver	Brett
Bulktrk	13	No.	Driver	Ding

JOB SERVICES & REMARKS

Remarks: Buss Farms

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

8 5/8 on bottom. Est. Circulation
Mix baskets Displace
Cement Circulate

Common 160

Poz. Mix

Gel. 35

Calcium

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 163

Mileage

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge

Mileage

Surface

46

Signature	<u>Bruce L. Buss</u>
Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

No. 716

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

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

Date	8-9-12	26	8	92	6674	KS	7:45 PM
Lease	Buss Farms	Well No.	2C-1	Location	Boque PhD 2w to 320 1S & W Sinks	On Location	
Contractor	American Royal Pigs 3	Owner		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	Plugs	T.D.	3810	Charge To	H@C		
Hole Size		Depth		Street			
Csg.		Depth		City		State	
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Tool		Shoe Joint		Cement Amount Ordered	130 Sbs 4% of 1 1/4 Mo		
Cement Left in Csg.		Displace					
Meas Line		EQUIPMENT					
Pumptrk	No.	Cementer					
	16	Helper	138				
Bulktrk	No.	Driver	92				
	13	Driver	8				
Bulktrk	No.	Driver					
		Driver					
JOB SERVICES & REMARKS							
Remarks:							
Rat Hole	30 Sbs	NA					
Mouse Hole							
Centralizers							
Baskets							
D/V or Port Collar							
	1st	3750	25 Sbs	Handling	238		
	2nd	1725	25 Sbs	Mileage		FLOAT EQUIPMENT	
	3rd	1000	100 Sbs	Guide Shoe			
	4th	285	40 Sbs	Centralizer		1 Rbk plug	
	5th	40	10 Sbs	Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge	Plug	46	
				Mileage		Tax	
						Discount	
						Total Charge	

X Signature: *Buss Farms*

MUD LOG

WellSight Systems

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Buss Farms No. 26 - 2
 Location: N2 NE NE Sec. 26 :Twnsp. 8S.; Rge. 22W.
 License Number: 8914
 Spud Date: August 1, 2012
 Surface Coordinates: 330' PNL & 660' FEL
 Sec. 26-8S-22W
 Region: Graham County, KS
 Drilling Completed: August 9, 2012

Bottom Hole Coordinates:
 Ground Elevation (ft): 2175
 Logged Interval (ft): 3100
 Formation: Arbuckle
 Type of Drilling Fluid: Chemical
 K.B. Elevation (ft): 2180
 To: TD
 Total Depth (ft): 3810

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: H & C Oil Operating, Inc.
 Address: P.O. Box 86
 Plainville, KS 67663

GEOLOGIST

Name: Mike Bair
 Company: Basin Resources L.L.C.
 Address: Longmont, CO.

FORMATION TOPS

FORMATION	SAMPLE	LOG TOP
Anhydrite	1706 (+474)	
Topeka	3160 (-980)	3160 (-980)
Heebner	3375 (-1195)	3374 (-1195)
Toronto	3398 (-1218)	3398 (-1218)
Lansing	3415 (-1235)	3415 (-1235)
BKC	3620 (-1440)	3620 (-1440)
Marmaton	3650 (-1470)	3651 (-1471)
Arbuckle	3733 (-1553)	3736 (-1556)
TD	3810 (-1630)	3812 (-1632)

DSTs

DST #1 3406 - 3456; 30-30-30
 IFF: Wk surf blow, died in 17 min. FSP: No blow back
 FFP: No blow FSP: No blow back
 FP: (17-19)(21-22) SIP: 997-981 HP: 1652-1612 BHT: 94F
 REC: 10' mud

DST #2 3475 - 3514; 30-30-30
 IFF: Wk surf blow died in 10 min. ISIP: No blow back
 FFP: Small surge wh tool opened, no blow; FSP: No blow
 FP: (17-20)(21-22) SIP: 688-676 HP: 1658-1662 BHT: 104F
 REC: 5' mud

DST#3 3520-3588 30-30-30
 IFF: dead FSP: dead
 FP: (31-34)(34-35) SIP: 47-41 HP: 172801687 BHT: 94F
 Rec: 3' mud

DST #4 3581-3620 30-30-30
 IFF: weak blow died in 11 min. ISIP: no blow back
 FFP: no blow FSP: No blow back
 FP: (17-19)(20-21) SIP: 499-488 HP: 1732-1734 BHT: 93F
 REC: 3' drilling mud

DST #5 3668-3756 30-30-30
 IFF: dead FSP: dead
 FP: (56-62)(62-65) SIP: 148-118 HP: 1830-1742 BHT: 110F
 Rec: 5' mud

Comments

Based on examination of rock samples, DST results and logs it was determined to plug and abandon.

ROCK TYPES

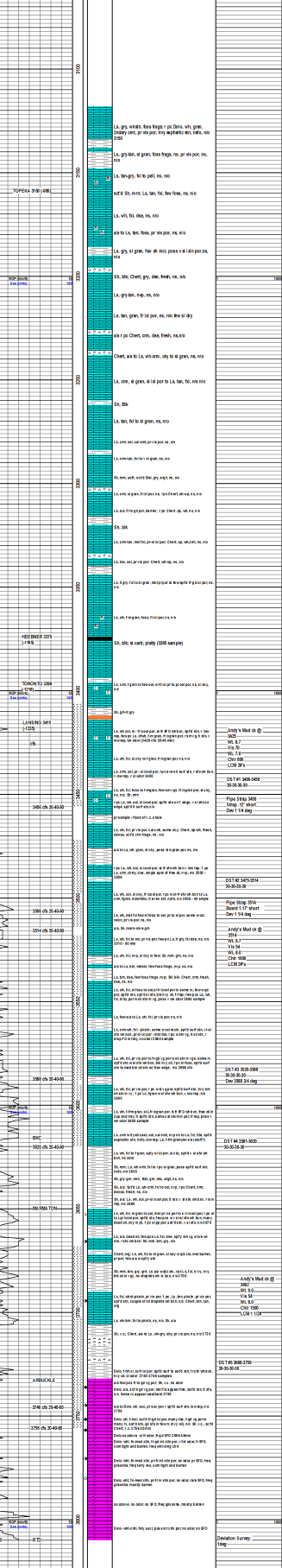
Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Coal	Igne	Salt	Siltst
Brec	Congl	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Tfl

ACCESSORIES

<input type="checkbox"/> Anhy	<input type="checkbox"/> Gyp	<input type="checkbox"/> FOSSIL	<input type="checkbox"/> Ostra	<input type="checkbox"/> Siltstng
<input type="checkbox"/> Arggrm	<input type="checkbox"/> Hvymin	<input type="checkbox"/> Algae	<input type="checkbox"/> Pelac	<input type="checkbox"/> Ssstng
<input type="checkbox"/> Arg	<input type="checkbox"/> Kaol	<input type="checkbox"/> Amph	<input type="checkbox"/> Pellet	<input type="checkbox"/> Boundst
<input type="checkbox"/> Bent	<input type="checkbox"/> Marl	<input type="checkbox"/> Belm	<input type="checkbox"/> Pisolite	<input type="checkbox"/> Chalky
<input type="checkbox"/> Bit	<input type="checkbox"/> Mind	<input type="checkbox"/> Bioclst	<input type="checkbox"/> Plant	<input type="checkbox"/> Cryxln
<input type="checkbox"/> Brefracg	<input type="checkbox"/> Nodule	<input type="checkbox"/> Broch	<input type="checkbox"/> Strom	<input type="checkbox"/> Earthy
<input type="checkbox"/> Calc	<input type="checkbox"/> Phos	<input type="checkbox"/> Bryozoa	<input type="checkbox"/> STRINGER	<input type="checkbox"/> Finexln
<input type="checkbox"/> Carb	<input type="checkbox"/> Pyr	<input type="checkbox"/> Cephal	<input type="checkbox"/> Anhy	<input type="checkbox"/> Grainst
<input type="checkbox"/> Chtdk	<input type="checkbox"/> Salt	<input type="checkbox"/> Coral	<input type="checkbox"/> Arg	<input type="checkbox"/> Lithogr
<input type="checkbox"/> ChHt	<input type="checkbox"/> Sandy	<input type="checkbox"/> Crin	<input type="checkbox"/> Bent	<input type="checkbox"/> Microxdn
<input type="checkbox"/> Dol	<input type="checkbox"/> Silt	<input type="checkbox"/> Echin	<input type="checkbox"/> Coal	<input type="checkbox"/> Mudst
<input type="checkbox"/> Feldspar	<input type="checkbox"/> Sil	<input type="checkbox"/> Fish	<input type="checkbox"/> Dol	<input type="checkbox"/> Packst
<input type="checkbox"/> Ferrpel	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Foram	<input type="checkbox"/> Gyp	<input type="checkbox"/> Wackest
<input type="checkbox"/> Ferr	<input type="checkbox"/> Tuff	<input type="checkbox"/> Fossil	<input type="checkbox"/> La	
<input type="checkbox"/> Glau		<input type="checkbox"/> Oolite	<input type="checkbox"/> Mrlst	

OTHER SYMBOLS

<input type="checkbox"/> POROSITY	<input type="checkbox"/> Vuggy	<input type="checkbox"/> ROUNDED	<input type="checkbox"/> Spotted	<input type="checkbox"/> EVENT
<input type="checkbox"/> Earthy		<input type="checkbox"/> Rounded	<input type="checkbox"/> Ques	<input type="checkbox"/> Rft
<input type="checkbox"/> Fenest	<input type="checkbox"/> SORTING	<input type="checkbox"/> Subrmd	<input type="checkbox"/> Dead	<input type="checkbox"/> Sidewall
<input type="checkbox"/> Fracture	<input type="checkbox"/> Well	<input type="checkbox"/> Subang	<input type="checkbox"/> INTERVAL	
<input type="checkbox"/> Inter	<input type="checkbox"/> Moderate	<input type="checkbox"/> Angular	<input type="checkbox"/> Core	
<input type="checkbox"/> Moldic	<input type="checkbox"/> Poor	<input type="checkbox"/> OIL SHOW	<input type="checkbox"/> Det	
<input type="checkbox"/> Organic		<input type="checkbox"/> Even		
<input type="checkbox"/> Pinpoint				



Deviation Survey: 14deg