



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1167495
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: _____

1167495

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

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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QUALITY OILWELL 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. 7225

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-28-13	29	19	11	Russell	KS		9:00 PM

Location *Dorrance s to 4 corners Rd 1E, 1/2 S, Fm 2*

Lease *Herber* Well No. *1* Owner

Contractor *Royal #2* 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 *Surface* Charge To *Miller-Becker Enterprises LLC*

Hole Size *12 1/4* T.D. *221* Street

Csg. *8 5/8* Depth *221* City State

Tbg. Size Depth The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Left in Csg. *20* Shoe Joint *20* Cement Amount Ordered *150 sacks con 3% cc 2% gel*

Meas Line Displace *12 3/4 (61)*

EQUIPMENT

No. Cementer Common

Pumptrk *5* No. Helper *Matt* Poz. Mix

Bulktrk *3* No. Driver *Claton* Gel.

Bulktrk *24* No. Driver *Travis* Calcium

JOB SERVICES & REMARKS

Remarks: *cement did circulate* Halls

Rat Hole Salt

Mouse Hole Flowseal

Centralizers Kol-Seal

Baskets Mud CLR 48

D/V or Port Collar CFL-117 or CD110 CAF 38

Handling Sand

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge

Mileage

Signature *Tom Blake* Tax

Discount

Total Charge

QUALITY OILWELL 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. 7898

Date	11-3-13	Sec.	29	Twp.	14	Range	11	County	Russell	State	KS	On Location	10:00 am	Finish	1:30 AM
Lease								Well No.		Location					
Herber								1		Dallman - 5-4- corners Rd. 1. E. 1/4 S.					
Contractor								Owner		To Quality Oilwell Cementing, Inc.					
Royal-2								per East into		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								Charge To		milled Decker					
Plog								T.D.		3240					
Hole Size								Depth		Street					
7 7/8								Depth		City					
Csg. Drill Pipe								Depth		State					
Tbg. Size								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Tool								Shoe Joint		Cement Amount Ordered 240 60/40 4 bags 170					
Cement Left in Csg.								Displace		EQUIPMENT					
Meas Line								Common		Pumptrk 16 No. Cementer Matt					
Displace								Poz. Mix		Bulktrk 2 No. Driver Doug					
EQUIPMENT								Gel.		Bulktrk PV No. Driver S. Ann N.					
JOB SERVICES & REMARKS								Hulls		Remarks:					
Rat Hole								Salt		30 SKS,					
Mouse Hole								Flowseal		15 SKS,					
Centralizers								Kol-Seal		Mud CLR 48					
Baskets								CFL-117 or CD110 CAF 38		D/V or Port Collar					
Sand								Handling		1st Plug 3220' - 50 SKS.					
Mileage								Mileage		2nd - 530' - 25 SKS.					
FLOAT EQUIPMENT								Guide Shoe		3rd - 300' - 80 SKS.					
Centralizer								Centralizer		4th 40' - 10 SKS.					
Baskets								AFU Inserts		Quality Oilwell					
Float Shoe								Latch Down		Cementing					
Wood Plug								Pumptrk Charge		Tax					
Mileage								Mileage		Discount					
Signature								Total Charge		Total Charge					



DRILL STEM TEST REPORT

Prepared For: **Miller-Becker Interprises LLC**

100 S Main St
Russell KS 67665

ATTN: Jeff Lawler

Herber #1

29-14s-11w Russell KS

Start Date: 2013.10.31 @ 03:13:46

End Date: 2013.10.31 @ 08:33:55

Job Ticket #: 54848 DST #: 1

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

Printed: 2013.11.06 @ 14:26:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Miller-Becker Interprises LLC

29-14s-11w Russell KS

100 S Main St
Russell KS 67665

Herber #1

Job Ticket: 54848

DST#: 1

ATTN: Jeff Lawler

Test Start: 2013.10.31 @ 03:13:46

GENERAL INFORMATION:

Formation: **Tarkio**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:33:46

Time Test Ended: 08:33:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

Interval: 2140.00 ft (KB) To 2245.00 ft (KB) (TVD)

Reference Elevations: 1665.00 ft (KB)

Total Depth: 2245.00 ft (KB) (TVD)

1658.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8898 Outside

Press @ Run Depth: 53.28 psig @ 2146.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.31

End Date:

2013.10.31

Last Calib.:

2013.10.31

Start Time: 03:13:47

End Time:

08:33:56

Time On Btm:

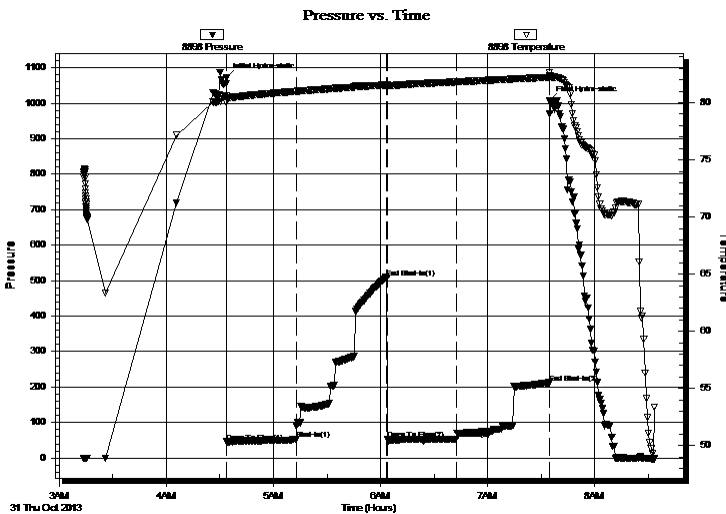
2013.10.31 @ 04:33:36

Time Off Btm:

2013.10.31 @ 07:34:36

TEST COMMENT: Weak surface blow built to 1 1/4"
Dead no blow back
Weak surface blow built to 2"
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1070.61	80.59	Initial Hydro-static
1	45.46	80.00	Open To Flow (1)
39	52.93	80.98	Shut-In(1)
90	506.87	81.54	End Shut-In(1)
91	52.10	81.38	Open To Flow (2)
129	53.28	81.82	Shut-In(2)
181	212.26	82.21	End Shut-In(2)
181	1007.63	82.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Miller-Becker Interprises LLC

29-14s-11w Russell KS

100 S Main St
Russell KS 67665

Herber #1

Job Ticket: 54848

DST#: 1

ATTN: Jeff Lawler

Test Start: 2013.10.31 @ 03:13:46

Tool Information

Drill Pipe:	Length: 2002.00 ft	Diameter: 3.80 inches	Volume: 28.08 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 28.68 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2140.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	125.00 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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Shut In Tool	5.00			2125.00	
Hydraulic tool	5.00			2130.00	
Packer	5.00			2135.00	20.00 Bottom Of Top Packer
Packer	5.00			2140.00	
Stubb	1.00			2141.00	
Perforations	5.00			2146.00	
Recorder	0.00	8897	Inside	2146.00	
Recorder	0.00	8898	Outside	2146.00	
Change Over Sub	1.00			2147.00	
Blank Spacing	62.00			2209.00	
Drill Pipe	31.00			2240.00	
Change Over Sub	1.00			2241.00	
Perforations	1.00			2242.00	
Bullnose	3.00			2245.00	105.00 Bottom Packers & Anchor

Total Tool Length: 125.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Miller-Becker Interprises LLC

29-14s-11w Russell KS

100 S Main St
Russell KS 67665

Herber #1

Job Ticket: 54848

DST#: 1

ATTN: Jeff Lawler

Test Start: 2013.10.31 @ 03:13:46

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: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

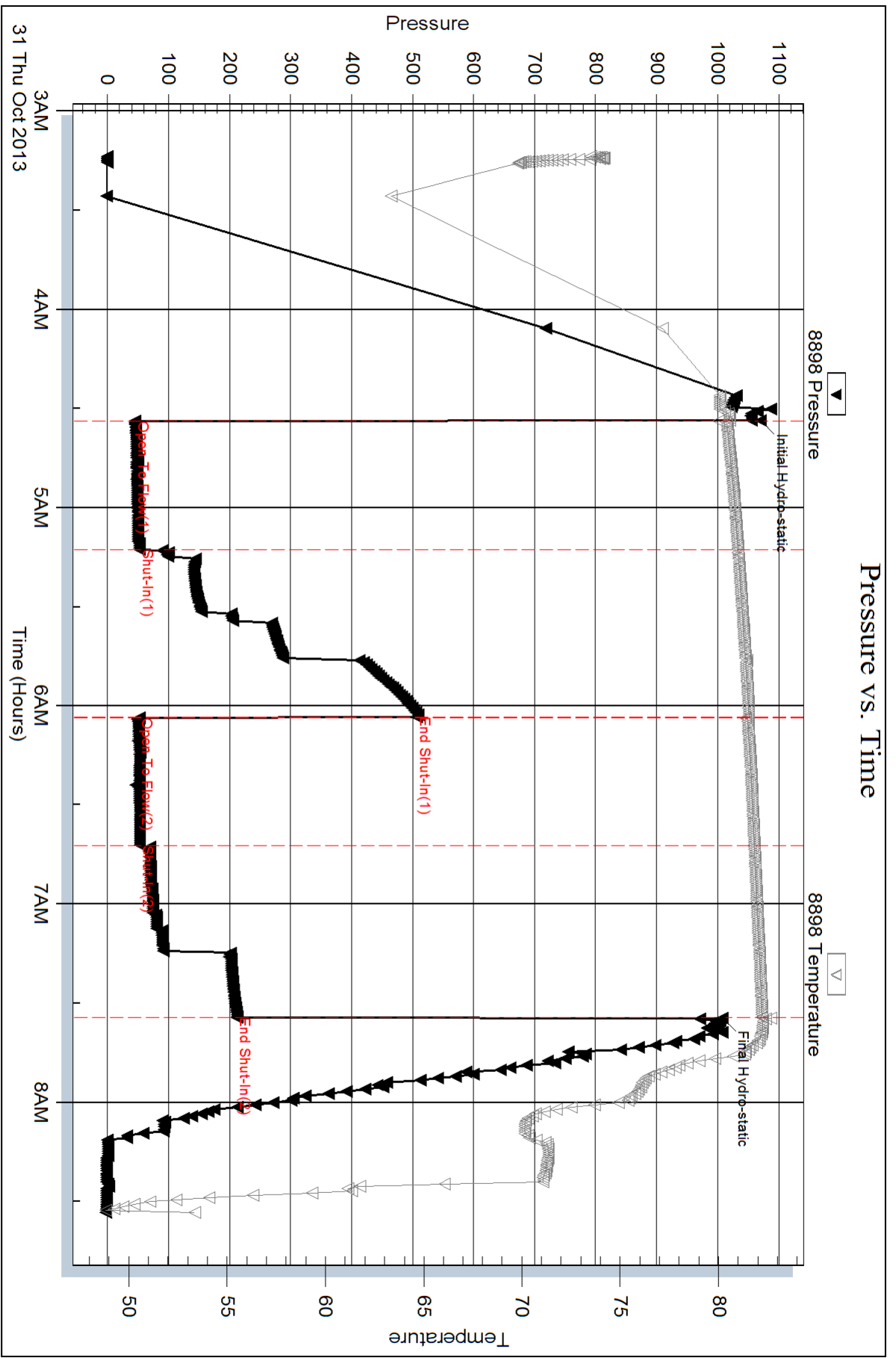
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



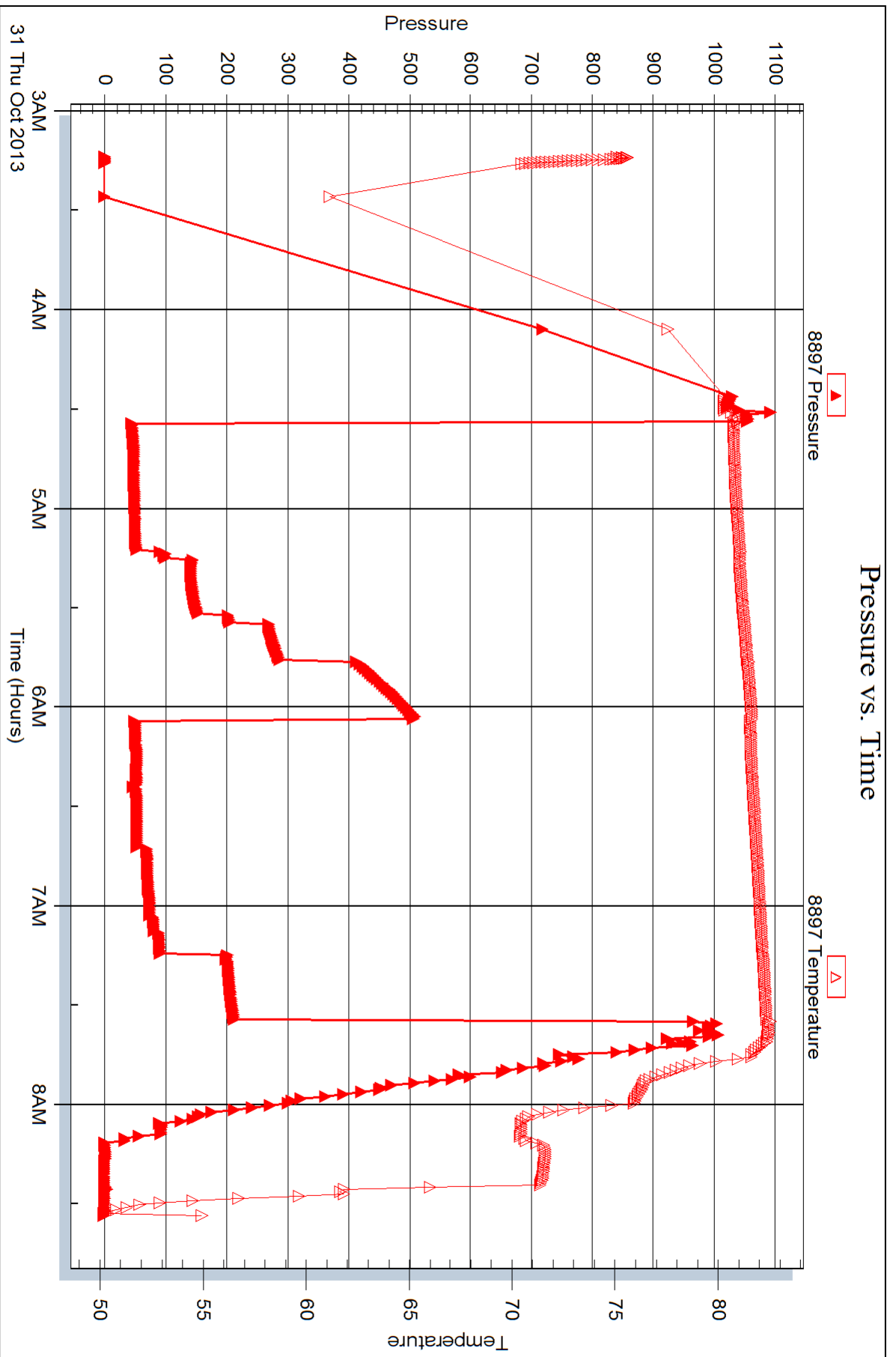
Serial #: 8897

Inside

Miller-Becker Interprises LLC

Herber #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Miller-Becker Interprises LLC**

100 S Main St
Russell KS 67665

ATTN: Jeff Lawler

Herber #1

29-14s-11w Russell KS

Start Date: 2013.11.01 @ 20:52:17

End Date: 2013.11.02 @ 01:44:17

Job Ticket #: 54849 DST #: 2

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

Printed: 2013.11.06 @ 14:26:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Miller-Becker Interprises LLC

29-14s-11w Russell KS

100 S Main St
Russell KS 67665

Herber #1

Job Ticket: 54849

DST#: 2

ATTN: Jeff Lawler

Test Start: 2013.11.01 @ 20:52:17

GENERAL INFORMATION:

Formation: **LKC A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:17:47

Time Test Ended: 01:44:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 2793.00 ft (KB) To 2855.00 ft (KB) (TVD)

Reference Elevations: 1665.00 ft (KB)

Total Depth: 2855.00 ft (KB) (TVD)

1658.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8898 Outside

Press @ Run Depth: 38.65 psig @ 2799.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.01

End Date:

2013.11.02

Last Calib.:

2013.11.02

Start Time: 20:52:18

End Time:

01:44:17

Time On Btm:

2013.11.01 @ 22:17:37

Time Off Btm:

2013.11.02 @ 00:22:17

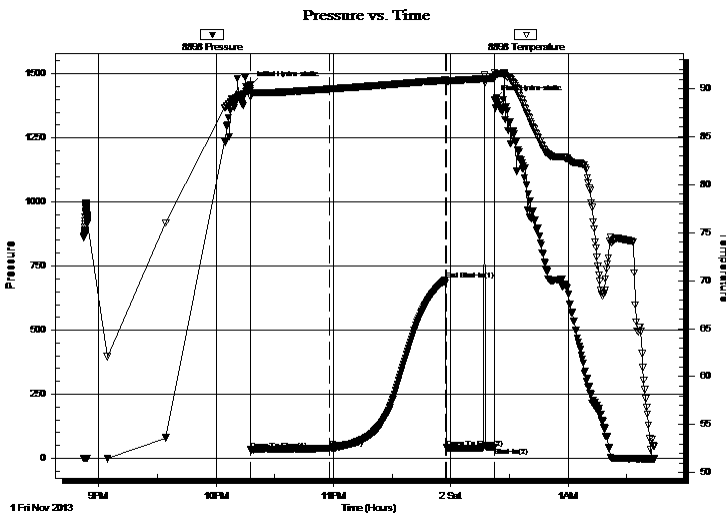
TEST COMMENT: Weak surface blow built to 2"

Dead no blow back

Dead no blow flushed tool surged blow, blew for 2 mins then died

Pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1454.96	89.78	Initial Hydro-static
1	33.56	89.20	Open To Flow (1)
41	38.65	89.98	Shut-In(1)
100	695.18	90.89	End Shut-In(1)
101	40.60	90.74	Open To Flow (2)
125	42.99	91.10	Shut-In(2)
125	1398.59	91.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%M	0.28

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Miller-Becker Interprises LLC

29-14s-11w Russell KS

100 S Main St
Russell KS 67665

Herber #1

Job Ticket: 54849

DST#: 2

ATTN: Jeff Lawler

Test Start: 2013.11.01 @ 20:52:17

Tool Information

Drill Pipe:	Length: 2781.00 ft	Diameter: 3.80 inches	Volume: 39.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 39.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2793.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 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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Shut In Tool	5.00			2778.00	
Hydraulic tool	5.00			2783.00	
Packer	5.00			2788.00	20.00 Bottom Of Top Packer
Packer	5.00			2793.00	
Stubb	1.00			2794.00	
Perforations	5.00			2799.00	
Recorder	0.00	8897	Inside	2799.00	
Recorder	0.00	8898	Outside	2799.00	
Change Over Sub	1.00			2800.00	
Drill Pipe	32.00			2832.00	
Change Over Sub	1.00			2833.00	
Perforations	19.00			2852.00	
Bullnose	3.00			2855.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Miller-Becker Interprises LLC

29-14s-11w Russell KS

100 S Main St
Russell KS 67665

Herber #1

Job Ticket: 54849

DST#: 2

ATTN: Jeff Lawler

Test Start: 2013.11.01 @ 20:52:17

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	100%M	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

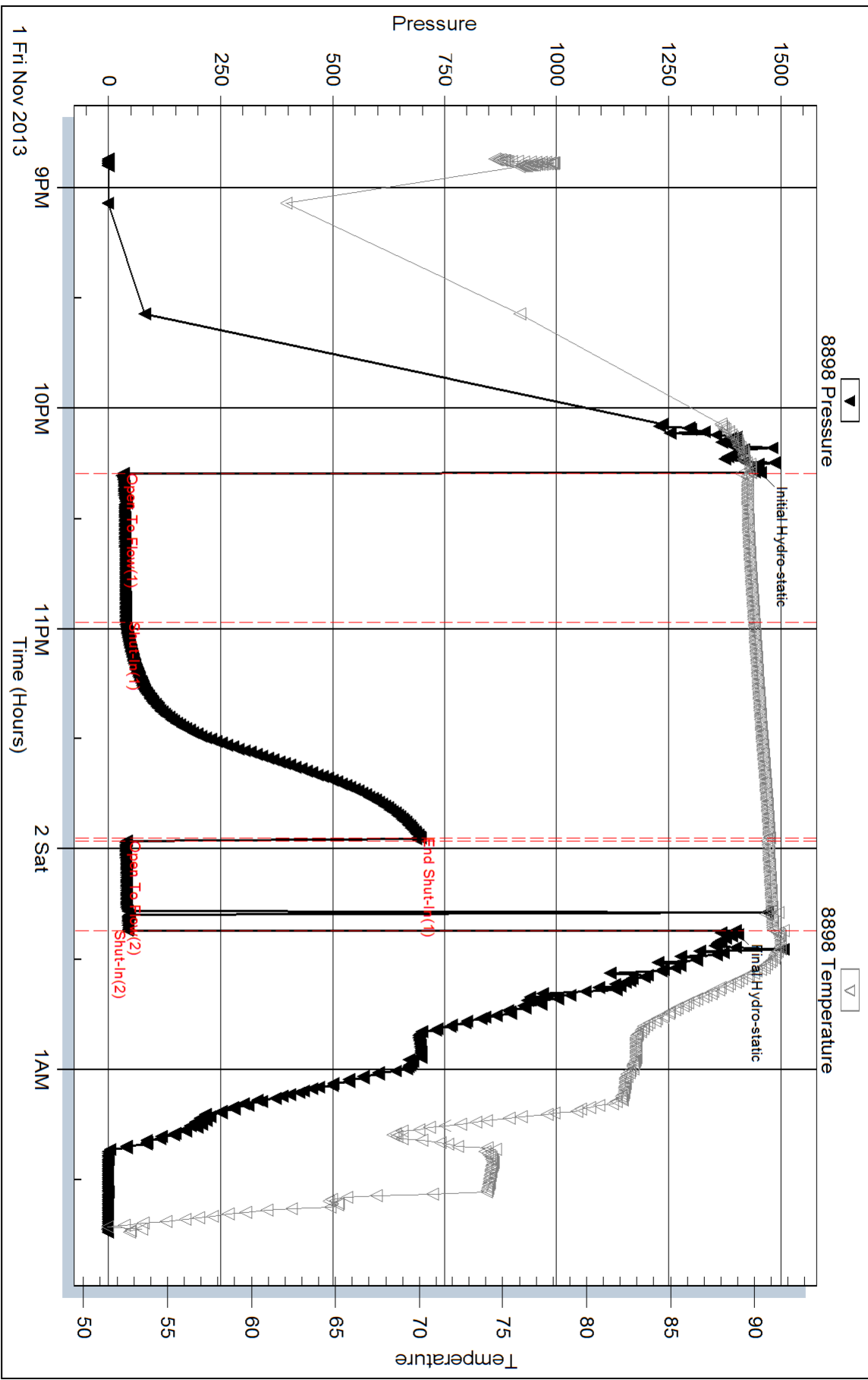
Serial #: 8898

Outside Miller-Becker Enterprises LLC

Herber #1

DST Test Number: 2

Pressure vs. Time



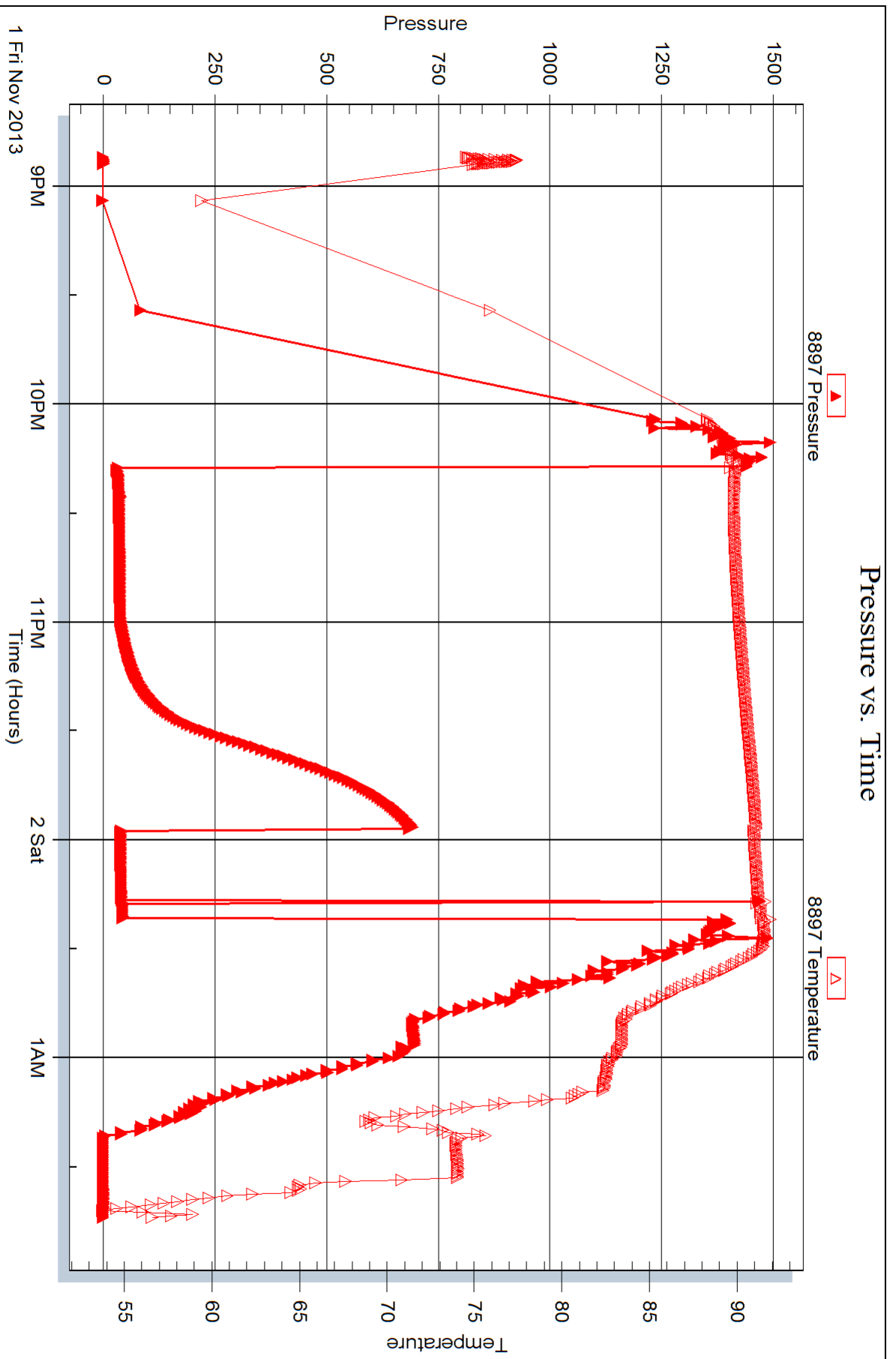
Serial #: 8897

Inside

Miller-Becker Enterprises LLC

Herber #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Miller-Becker Interprises LLC**

100 S Main St
Russell KS 67665

ATTN: Jeff Lawler

Herber #1

29-14s-11w Russell KS

Start Date: 2013.11.03 @ 15:12:19

End Date: 2013.11.03 @ 19:42:49

Job Ticket #: 54850 DST #: 3

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

Printed: 2013.11.06 @ 14:23:30

Miller-Becker Interprises LLC
29-14s-11w Russell KS
Herber #1
DST # 3
KC J
2013.11.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Miller-Becker Interprises LLC

29-14s-11w Russell KS

100 S Main St
Russell KS 67665

Herber #1

Job Ticket: 54850

DST#: 3

ATTN: Jeff Lawler

Test Start: 2013.11.03 @ 15:12:19

GENERAL INFORMATION:

Formation: **KC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:35:59

Time Test Ended: 19:42:49

Test Type: Conventional Straddle (Reset)

Tester: Tate Lang/ Brannan L

Unit No: 49

Interval: 2972.00 ft (KB) To 3002.00 ft (KB) (TVD)

Reference Elevations: 1665.00 ft (KB)

Total Depth: 3240.00 ft (KB) (TVD)

1658.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8898 Outside

Press @ Run Depth: 16.69 psig @ 2998.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.03

End Date: 2013.11.03

Last Calib.: 2013.11.03

Start Time: 15:12:20

End Time: 19:42:49

Time On Btm: 2013.11.03 @ 16:35:49

Time Off Btm: 2013.11.03 @ 18:26:49

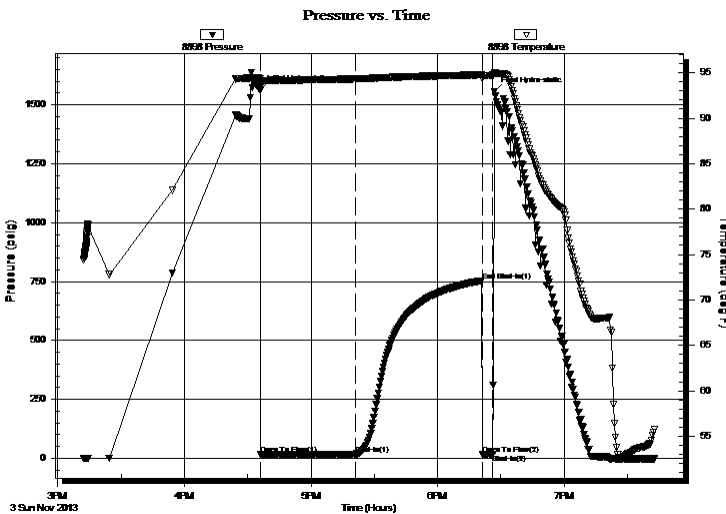
TEST COMMENT: Weak surface blow died in 35 mins

Dead no blow back

Dead no blow

Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1563.28	94.40	Initial Hydro-static
1	16.94	93.41	Open To Flow (1)
46	16.69	94.33	Shut-In(1)
106	754.14	94.78	End Shut-In(1)
106	17.48	94.35	Open To Flow (2)
111	17.98	94.70	Shut-In(2)
111	1556.73	95.04	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Miller-Becker Interprises LLC

29-14s-11w Russell KS

100 S Main St
Russell KS 67665

Herber #1

Job Ticket: 54850

DST#: 3

ATTN: Jeff Lawler

Test Start: 2013.11.03 @ 15:12:19

Tool Information

Drill Pipe:	Length: 2970.00 ft	Diameter: 3.80 inches	Volume: 41.66 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 41.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2972.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3002.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	290.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			2953.00	
Shut In Tool	5.00			2958.00	
Hydraulic tool	5.00			2963.00	
Packer	5.00			2968.00	20.00 Bottom Of Top Packer
Packer	4.00			2972.00	
Stubb	1.00			2973.00	
Perforations	25.00			2998.00	
Recorder	0.00	8897	Inside	2998.00	
Recorder	0.00	8898	Outside	2998.00	
Blank Off Sub	1.00			2999.00	
Blank Spacing	3.00			3002.00	30.00 Tool Interval
Packer	1.00			3003.00	
Stubb	1.00			3004.00	
Recorder	0.00	8354	Below	3004.00	
Perforations	11.00			3015.00	
Change Over Sub	1.00			3016.00	
Drill Pipe	222.00			3238.00	
Change Over Sub	1.00			3239.00	
Bullnose	3.00			3242.00	240.00 Bottom Packers & Anchor

Total Tool Length: 290.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Miller-Becker Interprises LLC

29-14s-11w Russell KS

100 S Main St
Russell KS 67665

Herber #1

Job Ticket: 54850

DST#: 3

ATTN: Jeff Lawler

Test Start: 2013.11.03 @ 15:12:19

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: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	Mud	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:

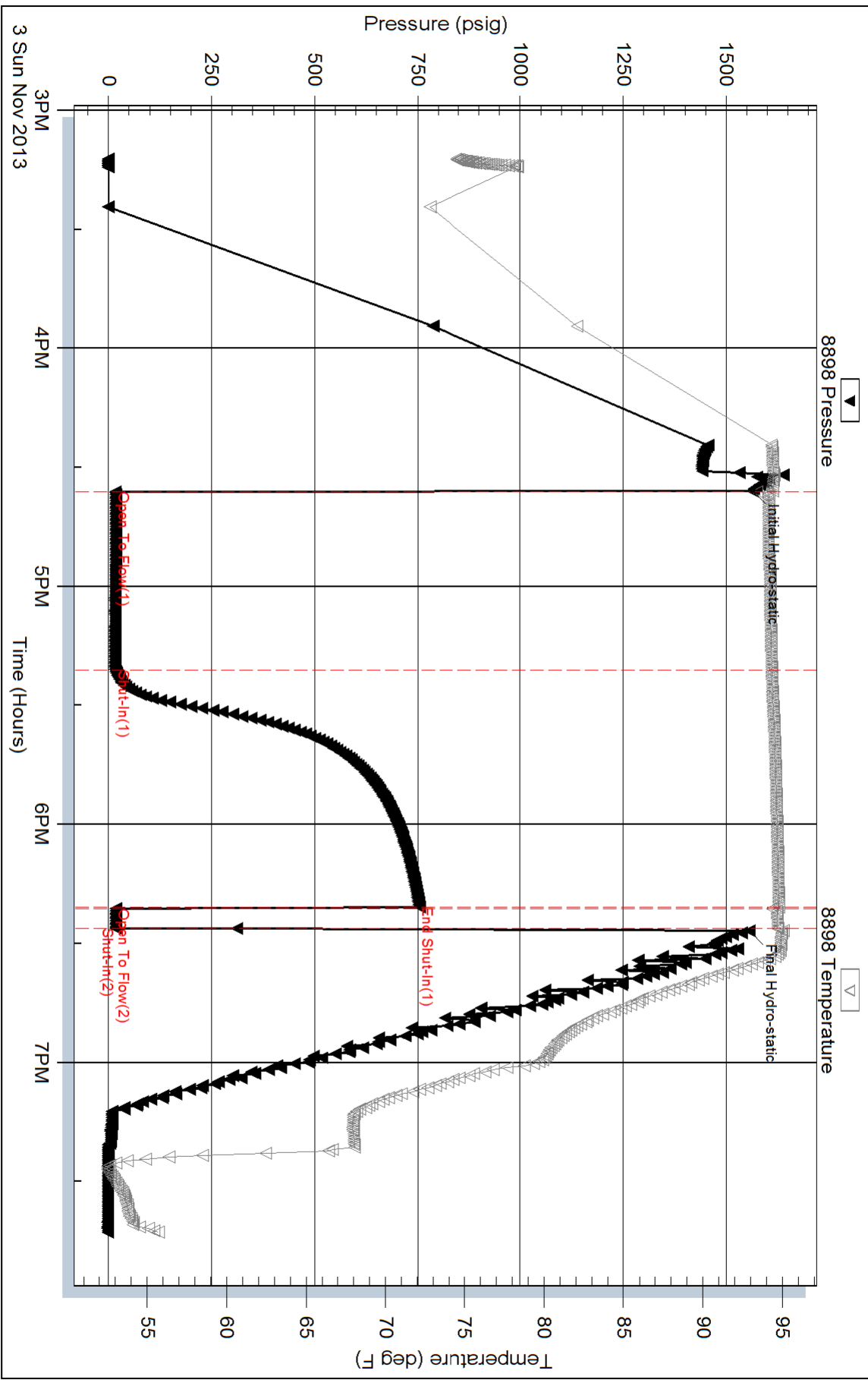
Serial #: 8898

Outside Miller-Becker Enterprises LLC

Herber #1

DST Test Number: 3

Pressure vs. Time



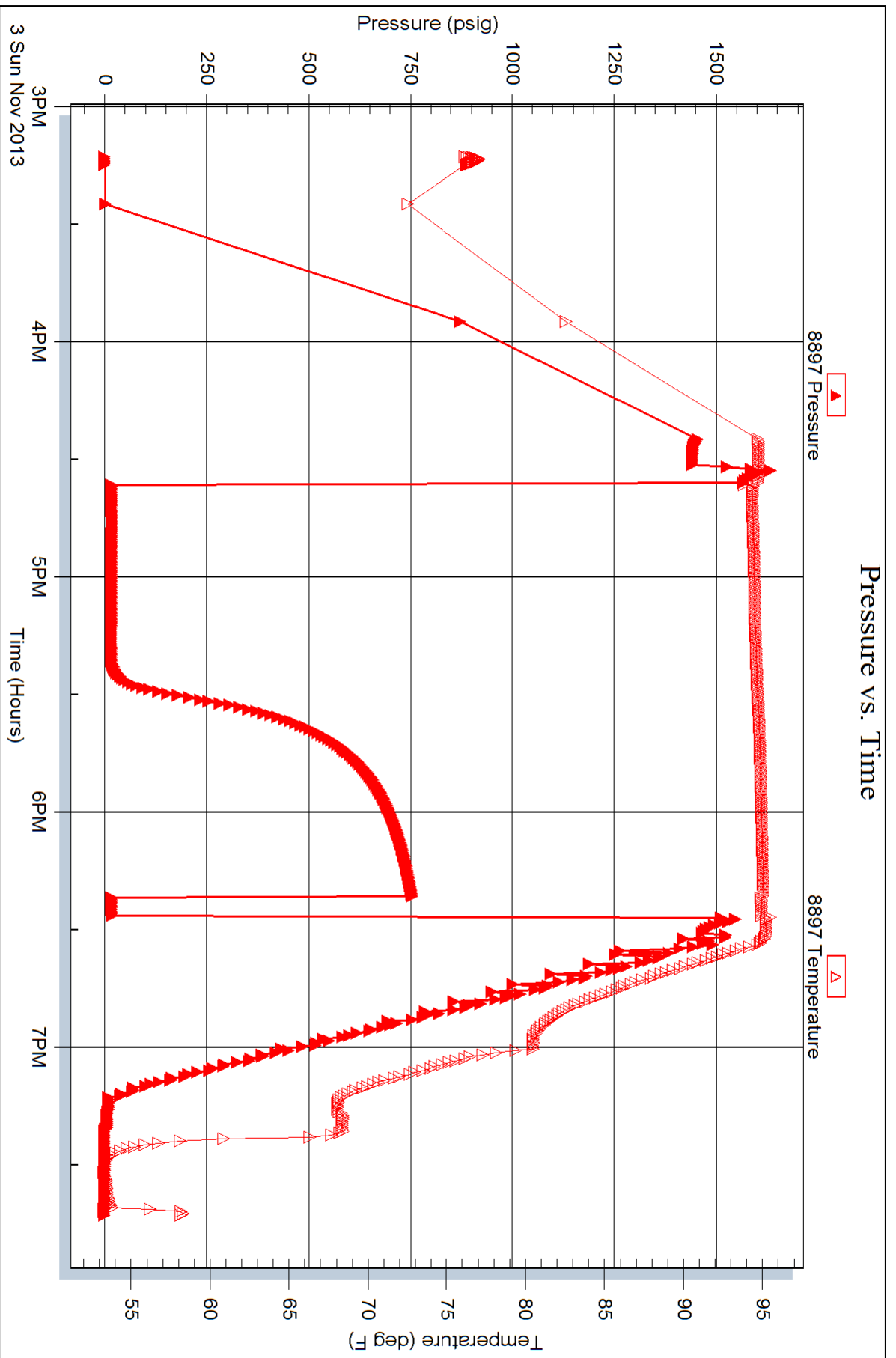
Serial #: 8897

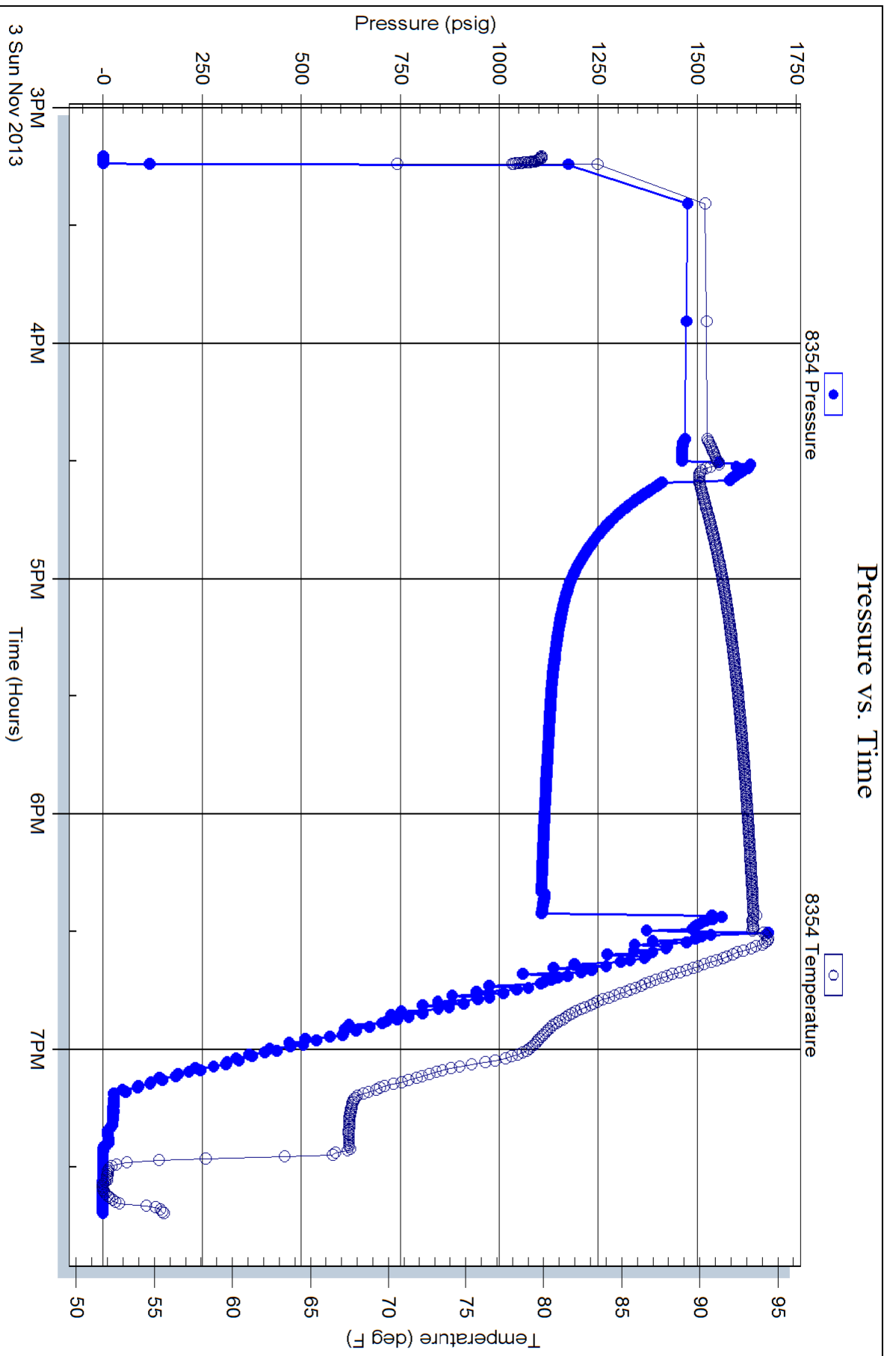
Inside

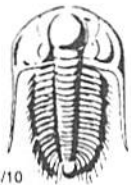
Miller-Becker Enterprises LLC

Herber #1

DST Test Number: 3







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54848

Well Name & No. Herber #1 Test No. 1 Date 10-31-13
 Company Miller-Becker Enterprises, LLC Elevation 1665 KB 1658 GL
 Address 100 S Main St Russell KS 67665
 Co. Rep / Geo. Jeff Lawler Rig Royal Rig #2
 Location: Sec. 29 Twp. 14 Rge. 11 Co. Russell State KS

Interval Tested 2140 2245 Zone Tested Turkio
 Anchor Length 105 Drill Pipe Run 2002 Mud Wt. 8.7
 Top Packer Depth 2136 Drill Collars Run 121 Vis 54
 Bottom Packer Depth 2140 Wt. Pipe Run 0 WL 610
 Total Depth 2245 Chlorides 1100 ppm System LCM 1#

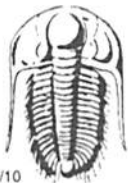
Blow Description Weak surface blow built to 1 1/4 in
Dead No Blow Back
Weak surface blow built to 2 in
Dead No blow back

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

Rec Total 10 BHT 83 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1071 Test 1150 T-On Location 00:25
 (B) First Initial Flow 115 Jars T-Started 03:13
 (C) First Final Flow 53 Safety Joint T-Open 04:33
 (D) Initial Shut-In 507 Circ Sub T-Pulled 07:53
 (E) Second Initial Flow 52 Hourly Standby T-Out 08:33
 (F) Second Final Flow 53 Mileage 84 R/T 130.20 Comments
 (G) Final Shut-In 212 Sampler
 (H) Final Hydrostatic 1008 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1280.20
 Accessibility MP/DST Disc't X
 Sub Total 1280.20

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

Approved By _____ Our Representative Jeff Lawler
 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. 54849

Well Name & No. Herber #1 Test No. 2 Date 11-1-13
 Company Miller-Becker Interpretive Elevation 1665 KB 1658 GL
 Address 100 S Main St Russell KS 67665
 Co. Rep / Geo. Jeff Lawler Rig Royal Rig #2
 Location: Sec. 29 Twp. 14 Rge. 11 Co. Russell State KS

Interval Tested 2793 2855 Zone Tested LKC A-C
 Anchor Length 62 Drill Pipe Run 2781 Mud Wt. 9.0
 Top Packer Depth 2789 Drill Collars Run 0 Vis SB
 Bottom Packer Depth 2793 Wt. Pipe Run 0 WL 8.8
 Total Depth 2855 Chlorides 5000 ppm System LCM 2"

Blow Description Weak surface blow built to 2 in
Dead air blow built
Dead air blow, flushed tool surge blow for 2 mins then died
Pulled tool

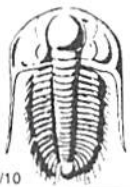
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>20</u>	Feet of <u>mud</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 91 BHT 1455 Gravity 1150 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1455 Test 1150 T-On Location 20:20
 (B) First Initial Flow 34 Jars T-Started 20:52
 (C) First Final Flow 39 Safety Joint T-Open 22:18
 (D) Initial Shut-In 695 Circ Sub T-Pulled 00:22
 (E) Second Initial Flow 41 Hourly Standby T-Out 01:44
 (F) Second Final Flow X Mileage 84 R/T 130.20 Comments
 (G) Final Shut-In X Sampler
 (H) Final Hydrostatic 1399 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 30
 Initial Shut-In 60
 Final Flow 15 Flushed 5
 Final Shut-In pulled
 Day Standby + 1 3/4 hr
 Accessibility
 Sub Total 1280.20
 Sub Total 391.67
 Total 1671.87
 MP/DST Disc't X

Approved By _____ Our Representative John Law

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54850

Well Name & No. Herber #1 Test No. 3 Date 11/3/13
 Company Miller-Becker Enterprises, LLC Elevation 1665 KB 1658 GL
 Address 100 S. Main St. Russell, KS 67665
 Co. Rep / Geo. Steve Reed Rig Royal Rig 2
 Location: Sec. 29 Twp. 14s Rge. 11w Co. Russell State KS

Interval Tested 2972-3002 Zone Tested "J" KC
 Anchor Length 30' 240' Tail Drill Pipe Run 2970 Mud Wt. 8.7
 Top Packer Depth 2967-2972 Drill Collars Run --- Vis 54
 Bottom Packer Depth 3002 Wt. Pipe Run --- WL 6.0
 Total Depth 3240 Chlorides 1100 ppm System LCM 1#

Blow Description Weak surface blow died in 35 mins
Dead No Blow back
Dead No Dipw
pulled too

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

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

(A) Initial Hydrostatic 1563 Test 1150 T-On Location 1400
 (B) First Initial Flow 17 Jars _____ T-Started 1512
 (C) First Final Flow 17 Safety Joint _____ T-Open 16:36
 (D) Initial Shut-In 754 Circ Sub _____ T-Pulled 18:28
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 19:43
 (F) Second Final Flow X Mileage 84 RT 130.20 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1557 Straddle 600 Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 60 Extra Packer _____ Extra Copies _____
 Final Flow 10 Extra Recorder _____ Sub Total 408.33
 Final Shut-In pulled too Day Standby 10 3/4 hr 1d 12.25h Total 2288.53
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1880.20

Approved By Steve Reed Our Representative Brannan

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