



KANSAS CORPORATION COMMISSION 1168515
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1168515

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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> _____ <i>(Submit ACO-4)</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. 7899

Date	11-4-13	Sec.	7	Twp.	13	Range	14	County	Russell	State	KS	On Location		Finish	9:00 PM
------	---------	------	---	------	----	-------	----	--------	---------	-------	----	-------------	--	--------	---------

Lease Hillier Well No. 3 Location Russell N to canyon Rd

Owner 3 N to Bond Street Winto
To Quality Oilwell Cementing, Inc.

Contractor Royal 2
You are hereby requested to rent cementing equipment and furnish
Type Job Surface cementer and helper to assist owner or contractor to do work as listed.

Hole Size 2 1/2 T.D. 221 Charge To Bennett Schutte

Csg. 8 5/8 Depth Street Bennett Schutte

Tbg. Size Depth City State

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

Cement Left in Csg. 20ft Shoe Joint 20ft Cement Amount Ordered 150 com

Meas Line Displace 12.3/4 3% oil 2% gel

EQUIPMENT

Pumptrk	5	No.	Cementer		Common
			Helper	<u>Matt</u>	Poz. Mix
Bulktrk	3	No.	Driver	<u>Connie</u>	Gel.
			Driver	<u>Clayton</u>	Calcium
Bulktrk	<u>pu</u>	No.	Driver		Hulls
			Driver		Salt

JOB SERVICES & REMARKS

Remarks:	
Rat Hole	Flowseal
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand

Cement did
Circulate
Thank you

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	
Mileage	

X Signature Doug Budy

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. 7561

Date	11-9-13	Sec.	7	Twp.	13	Range	14	County	Russell	State	Ks	On Location		Finish	4:30 PM
Lease								Location		Russell, Ks - 15 th Street + Canyon Rd; 30					
Hilges								Well No.		3					
Contractor								Owner		W/S					
Ronal								2		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.					
Type Job								Charge To		Bennett - Shulte					
Plug								Street							
Hole Size								Depth		3166'					
7 7/8"								T.D.		3166'					
Csg.								City		State					
Depth								State							
Tbg. Size								The above was done to satisfaction and supervision of owner agent or contractor.							
4 1/2" D.P.								Depth		3104'					
Tool								Cement Amount Ordered		215 sy 60110 4% Gel 1/4# Elbs					
Depth								Shoe Joint							
Cement Left in Csg.								Displace		H2O Mud					
Meas Line								EQUIPMENT		Common					
Pumptrk								No.		Cementer					
16								No.		Helper Billy					
Bulktrk								No.		Driver					
1								No.		Driver Lonnie M.					
Bulktrk								No.		Driver Rick					
p.u.								No.		Driver					
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
3104' - 50 SX								Flowseal							
Rat Hole								Kol-Seal							
785' - 25 SX								Mud CLR 48							
Mouse Hole								CFL-117 or CD110 CAF 38							
330' - 80 SX								Sand							
Centralizers								Handling							
40' - 10 SX w/plug								Mileage							
Baskets								FLOAT EQUIPMENT							
Rathole - 30 SX								Guide Shoe							
D/V or Port Collar								Centralizer							
Mouse hole - 15 SX								Baskets							
Cement did								AFU Inserts							
Circulate								Float Shoe							
1 Double plug								Latch Down							
Pumptrk Charge								Mileage							
Signature								Tax							
Total Charge								Discount							
								Total Charge							



DRILL STEM TEST REPORT

Prepared For: **Bennett & Schulte Oil Co**

PO Box 329
Russell KS 67665

ATTN: Bob Hopkins

Hilger #3

7-13s-14w Russell,KS

Start Date: 2013.11.08 @ 16:56:00

End Date: 2013.11.08 @ 22:33:15

Job Ticket #: 55317 DST #: 1

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

Printed: 2013.11.13 @ 10:37:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bennett & Schulte Oil Co

7-13s-14w Russell,KS

PO Box 329
Russell KS 67665

Hilger #3

Job Ticket: 55317

DST#: 1

ATTN: Bob Hopkins

Test Start: 2013.11.08 @ 16:56:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:11:45

Time Test Ended: 22:33:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3126.00 ft (KB) To 3152.00 ft (KB) (TVD)

Reference Elevations: 1702.00 ft (KB)

Total Depth: 3152.00 ft (KB) (TVD)

1695.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8736

Inside

Press@RunDepth: 50.72 psig @ 3149.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.08 End Date: 2013.11.08

Last Calib.: 2013.11.08

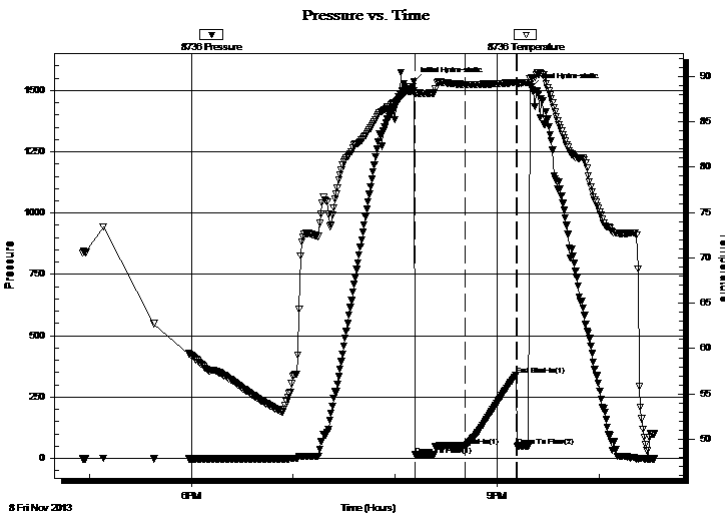
Start Time: 16:56:05 End Time: 22:33:14

Time On Btm: 2013.11.08 @ 20:11:00

Time Off Btm: 2013.11.08 @ 21:20:00

TEST COMMENT: IF-Surface blow died in 10 min flush tool no blow
IS-No blow
FF-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1536.45	88.41	Initial Hydro-static
1	14.13	88.10	Open To Flow (1)
30	50.72	89.12	Shut-In(1)
61	338.99	89.31	End Shut-In(1)
61	50.64	89.23	Open To Flow (2)
69	1513.24	89.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud	0.91

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bennett & Schulte Oil Co

7-13s-14w Russell,KS

PO Box 329
Russell KS 67665

Hilger #3

ATTN: Bob Hopkins

Job Ticket: 55317

DST#: 1

Test Start: 2013.11.08 @ 16:56:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:11:45

Time Test Ended: 22:33:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3126.00 ft (KB) To 3152.00 ft (KB) (TVD)

Reference Elevations: 1702.00 ft (KB)

Total Depth: 3152.00 ft (KB) (TVD)

1695.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6753 Outside

Press@RunDepth: psig @ 3149.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.08

End Date:

2013.11.08

Last Calib.:

2013.11.08

Start Time: 16:56:05

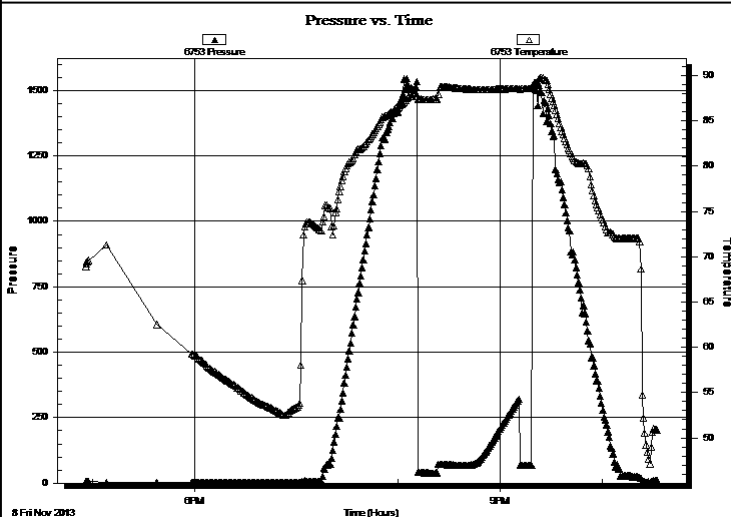
End Time:

22:33:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Surface blow died in 10 min flush tool no blow
IS-No blow
FF-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bennett & Schulte Oil Co

7-13s-14w Russell,KS

PO Box 329
Russell KS 67665

Hilger #3

Job Ticket: 55317

DST#: 1

ATTN: Bob Hopkins

Test Start: 2013.11.08 @ 16:56:00

Tool Information

Drill Pipe:	Length: 3130.00 ft	Diameter: 3.80 inches	Volume: 43.91 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 43.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3126.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	47.00 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			3106.00	
Shut In Tool	5.00			3111.00	
Hydraulic tool	5.00			3116.00	
Packer	5.00			3121.00	21.00 Bottom Of Top Packer
Packer	5.00			3126.00	
Stubb	1.00			3127.00	
Perforations	22.00			3149.00	
Recorder	0.00	8736	Inside	3149.00	
Recorder	0.00	6753	Outside	3149.00	
Bullnose	3.00			3152.00	26.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bennett & Schulte Oil Co

7-13s-14w Russell,KS

PO Box 329
Russell KS 67665

Hilger #3

Job Ticket: 55317

DST#: 1

ATTN: Bob Hopkins

Test Start: 2013.11.08 @ 16:56:00

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: 59.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud	0.912

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

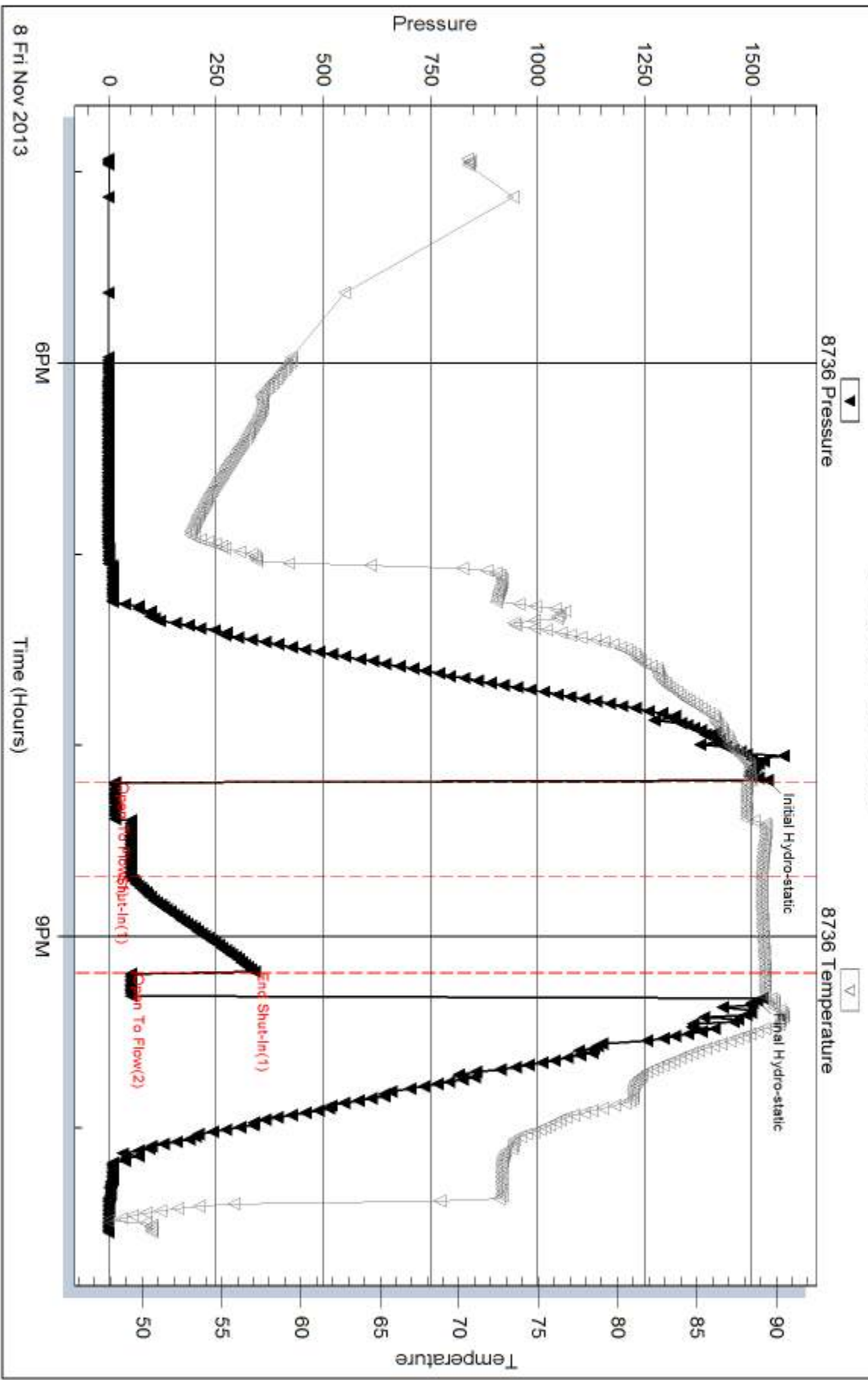
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

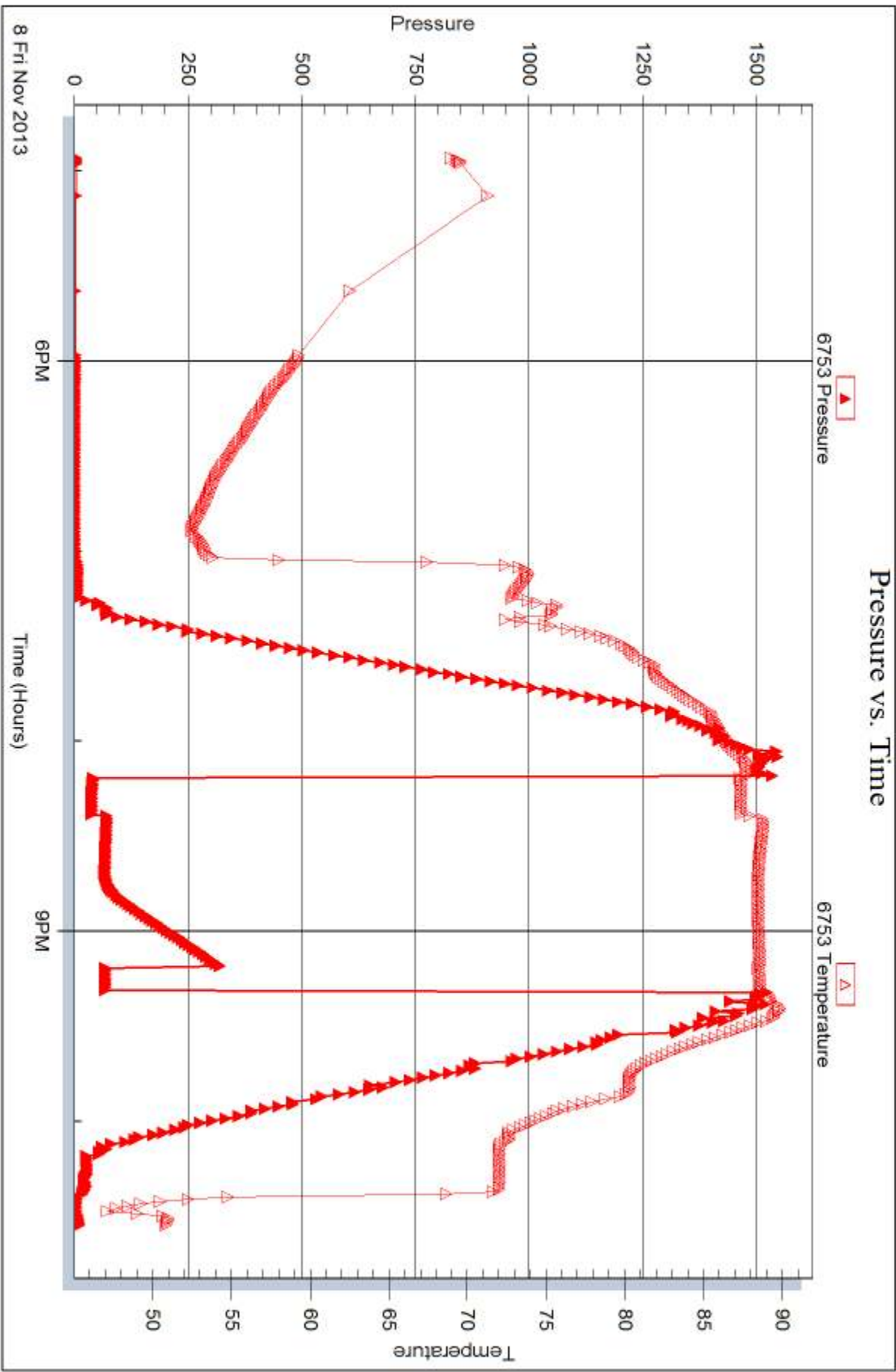


Serial #: 6753

Outside Bennett & Schulte Oil Co

Hilger #3

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 55317

Printed: 2013.11.13 @ 10:37:27



DRILL STEM TEST REPORT

Prepared For: **Bennett & Schulte Oil Co**

PO Box 329
Russell KS 67665

ATTN: Bob Hopkins

Hilger #3

7-13s-14w Russell,KS

Start Date: 2013.11.09 @ 03:35:00

End Date: 2013.11.09 @ 08:45:15

Job Ticket #: 55318 DST #: 2

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

Printed: 2013.11.13 @ 10:36:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bennett & Schulte Oil Co

7-13s-14w Russell,KS

PO Box 329
Russell KS 67665

Hilger #3

Job Ticket: 55318

DST#: 2

ATTN: Bob Hopkins

Test Start: 2013.11.09 @ 03:35:00

GENERAL INFORMATION:

Formation: **Atbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:07:30

Time Test Ended: 08:45:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3146.00 ft (KB) To 3166.00 ft (KB) (TVD)

Reference Elevations: 1702.00 ft (KB)

Total Depth: 3166.00 ft (KB) (TVD)

1695.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8736

Inside

Press@RunDepth: 375.12 psig @ 3163.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.09

End Date:

2013.11.09

Last Calib.:

2013.11.09

Start Time: 03:35:05

End Time:

08:45:14

Time On Btm:

2013.11.09 @ 05:07:00

Time Off Btm:

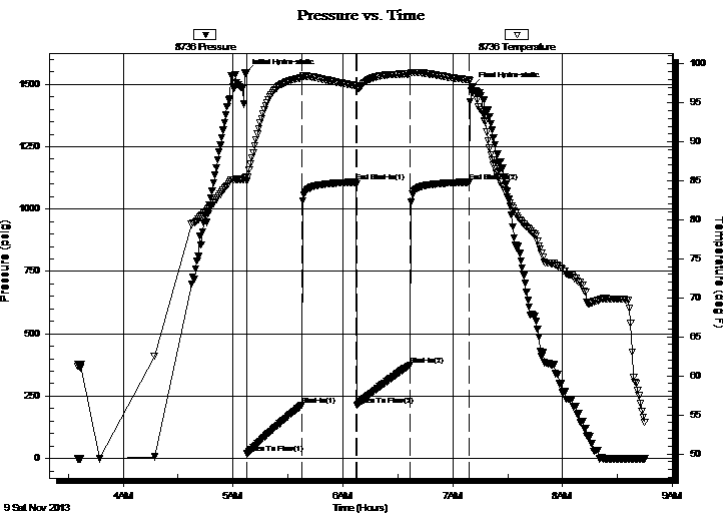
2013.11.09 @ 07:10:45

TEST COMMENT: IF-BOB in 5 1/2 min

ISI-No blow

FF-BOB in 6 min

FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1545.57	85.44	Initial Hydro-static
1	19.46	84.93	Open To Flow (1)
31	212.89	98.21	Shut-In(1)
60	1108.48	97.21	End Shut-In(1)
61	214.69	96.81	Open To Flow (2)
90	375.12	98.70	Shut-In(2)
122	1108.31	97.91	End Shut-In(2)
124	1489.90	96.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	Water	8.84
130.00	MCW 20%M 80%W	1.82

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bennett & Schulte Oil Co

7-13s-14w Russell,KS

PO Box 329
Russell KS 67665

Hilger #3

Job Ticket: 55318

DST#: 2

ATTN: Bob Hopkins

Test Start: 2013.11.09 @ 03:35:00

GENERAL INFORMATION:

Formation: **Atbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:07:30

Time Test Ended: 08:45:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3146.00 ft (KB) To 3166.00 ft (KB) (TVD)

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Total Depth: 3166.00 ft (KB) (TVD)

1695.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6753 Outside

Press@RunDepth: psig @ 3163.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.09

End Date: 2013.11.09

Last Calib.: 2013.11.09

Start Time: 03:35:05

End Time: 08:44:59

Time On Btm:

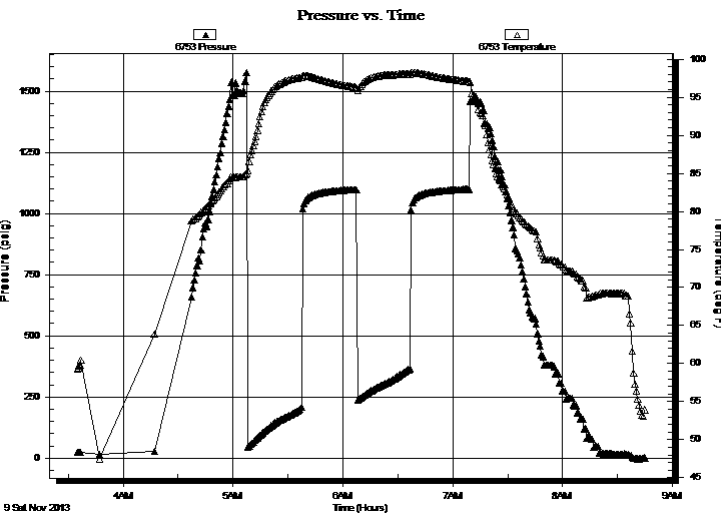
Time Off Btm:

TEST COMMENT: IF-BOB in 5 1/2 min

IS-No blow

FF-BOB in 6 min

FS-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
630.00	Water	8.84
130.00	MCW 20%M 80%W	1.82

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bennett & Schulte Oil Co

7-13s-14w Russell,KS

PO Box 329
Russell KS 67665

Hilger #3

Job Ticket: 55318

DST#: 2

ATTN: Bob Hopkins

Test Start: 2013.11.09 @ 03:35:00

Tool Information

Drill Pipe:	Length: 3130.00 ft	Diameter: 3.80 inches	Volume: 43.91 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3146.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	41.00 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			3126.00	
Shut In Tool	5.00			3131.00	
Hydraulic tool	5.00			3136.00	
Packer	5.00			3141.00	21.00 Bottom Of Top Packer
Packer	5.00			3146.00	
Stubb	1.00			3147.00	
Perforations	16.00			3163.00	
Recorder	0.00	8736	Inside	3163.00	
Recorder	0.00	6753	Outside	3163.00	
Bullnose	3.00			3166.00	20.00 Bottom Packers & Anchor
Total Tool Length:	41.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bennett & Schulte Oil Co

7-13s-14w Russell,KS

PO Box 329
Russell KS 67665

Hilger #3

Job Ticket: 55318

DST#: 2

ATTN: Bob Hopkins

Test Start: 2013.11.09 @ 03:35:00

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:

24000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	Water	8.837
130.00	MCW 20%M 80%W	1.824

Total Length: 760.00 ft Total Volume: 10.661 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

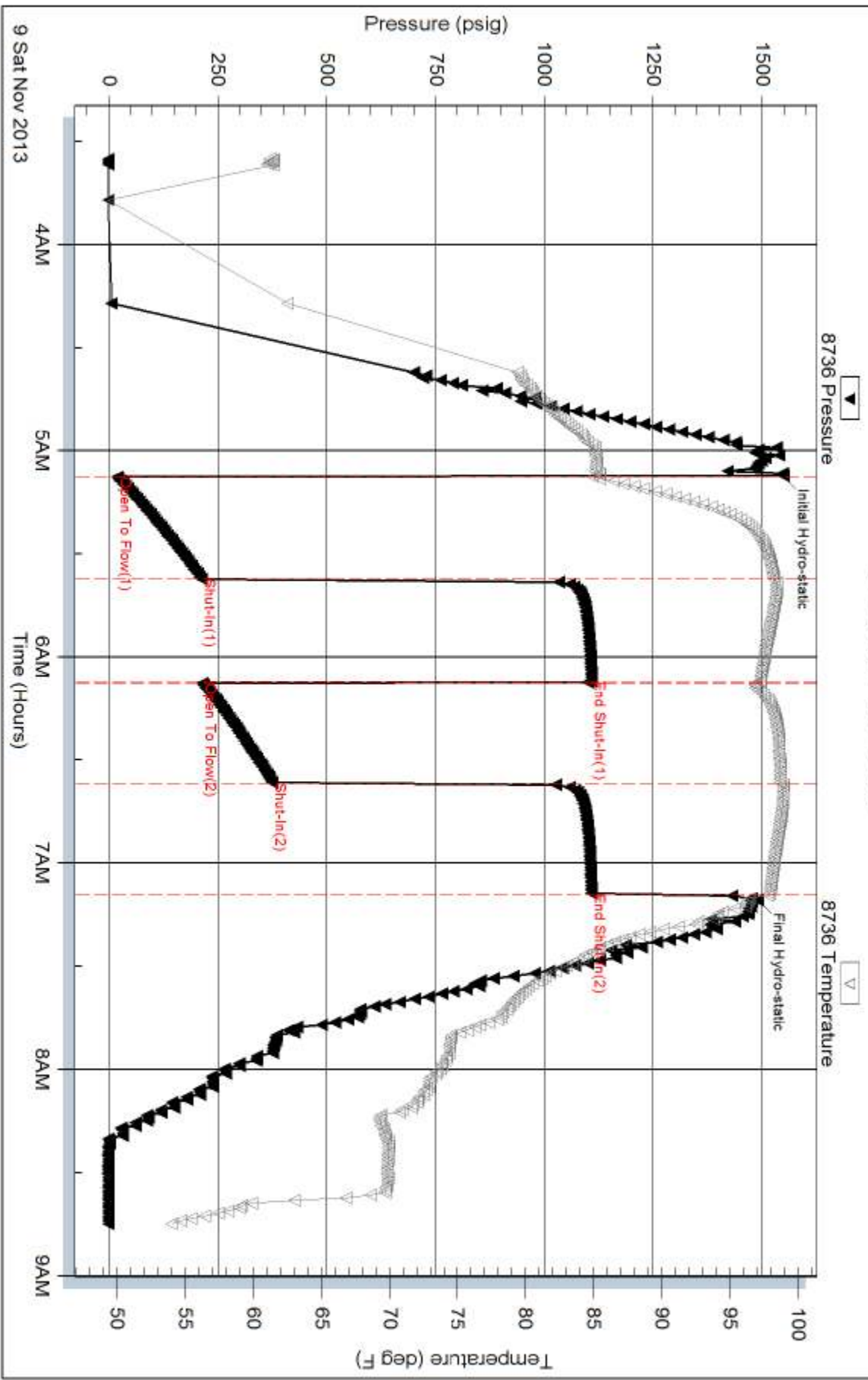
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

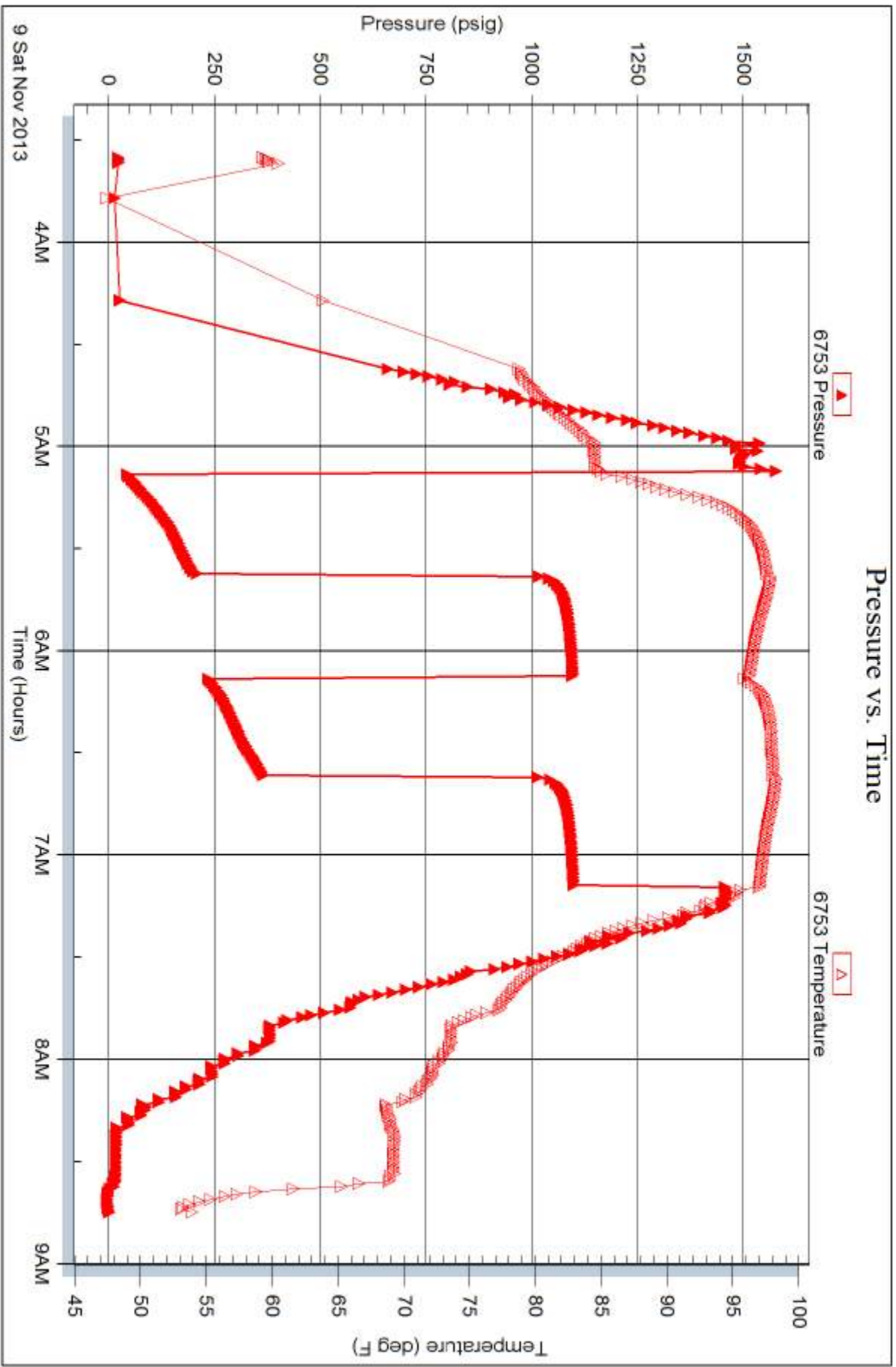


Serial #: 6753

Outside Bennett & Schulte Oil Co

Hilger #3

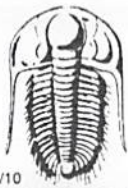
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55318

Printed: 2013.11.13 @ 10:36:36



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55317**

Well Name & No. Hilger #3 Test No. 1 Date 1/8/13
 Company Bennett & Schulte Oil Co., A General Part^{Ship} Elevation 1702 KB 1695 GL
 Address PO Box 329 Russell KS 67665
 Co. Rep / Geo. Bob Hopkins Rig Royal #2
 Location: Sec. 7 Twp. 13 Rge. 14 Co. Russell State KS

Interval Tested 3126 - 3152 Zone Tested Arb.
 Anchor Length 26 Drill Pipe Run 3130 Mud Wt. 8.9
 Top Packer Depth 3121 Drill Collars Run — Vis 59
 Bottom Packer Depth 3126 Wt. Pipe Run — WL 7.6
 Total Depth 3152 Chlorides 2,000 ppm System LCM 2[#]
 Blow Description IF - Surface blow died in 10 min flush tool No blow
EBF - No blow
FF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Mud</u>				

Rec Total 65 BHT 89 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,536 Test 1150 T-On Location 16:20
 (B) First Initial Flow 14 Jars _____ T-Started 16:56
 (C) First Final Flow 51 Safety Joint _____ T-Open 20:12
 (D) Initial Shut-In 339 Circ Sub _____ T-Pulled 21:20
 (E) Second Initial Flow 51 Hourly Standby _____ T-Out 22:33
 (F) Second Final Flow _____ Mileage 68rt 105.40
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1,513 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 8
 Final Shut-In _____

Sub Total 1255.40

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1255.40
 MP/DST Disc't _____

Approved By _____ Our Representative Butt Durr

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. **55318**

Well Name & No. Hilger #3 Test No. 2 Date 1/9/13
 Company Bennett & Schulte Oil Co Elevation 1702 KB 1695 GL
 Address PO Box 329 Russell KS 67665
 Co. Rep / Geo. Bob Hopkins Rig Royal #2
 Location: Sec. 7 Twp. 13 Rge. 14 Co. Russell State KS

Interval Tested 3146-3166 Zone Tested Arb
 Anchor Length 20 Drill Pipe Run 3130 Mud Wt. 8.9
 Top Packer Depth 3141 Drill Collars Run - Vis 59
 Bottom Packer Depth 3146 Wt. Pipe Run - WL 7.6
 Total Depth 3166 Chlorides 2,000 ppm System LCM 2#

Blow Description IF - BOB in 5 1/2 min
FSI - No blow
FF - BOB in 6 min
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>630</u>	<u>water</u>				
<u>130</u>	<u>MCW</u>		<u>80</u>	<u>20</u>	

Rec Total 260 BHT 98 Gravity _____ API RW .5 @ 40° F Chlorides 24000 ppm

(A) Initial Hydrostatic 1,546 Test 1150 T-On Location 3:25
 (B) First Initial Flow 19 Jars _____ T-Started 3:35
 (C) First Final Flow 213 Safety Joint _____ T-Open 5:07
 (D) Initial Shut-In 1,108 Circ Sub _____ T-Pulled 7:07
 (E) Second Initial Flow 215 Hourly Standby _____ T-Out 8:45
 (F) Second Final Flow 375 Mileage 68RT 105.40 Comments _____
 (G) Final Shut-In 1,108 Sampler _____
 (H) Final Hydrostatic 1,490 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 1255.40
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1255.40

Approved By _____ Our Representative Batt Dred

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