



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1227995  
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: \_\_\_\_\_



1227995

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
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Bennett & Schulte Oil Co., A General Partnership
Well Name	Zvolanek Heirs 33-1
Doc ID	1227995

Tops

Name	Top	Datum
Anhydrite	560	1190
Topeka	2513	-763
King Hill Shale	2608	-858
Heebner	2766	-1016
Brown Ls	2866	-1116
LKC A	2883	-1133
Lansing G	3018	-1268
J-K	3099	-139
Base KC	3161	-1411
Arbuckle	3277	-1527

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 857

Cell 785-324-1041

Date 9-24-14	Sec. 33	Twp. 15	Range 10	County Ellsworth	State KS	On Location	Finish 8:45 PM
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Location Wilson, 5 to K Rd, 2E, 1 1/2 S

Lease 2 Volant Heirs Well No. 33-1 Owner

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

Hole Size 12 1/4 T.D. 305 Charge To Bennett & Schulte

Csg. 8 3/4 Depth 305 Street

Tbg. Size Depth City State

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

Cement Left in Csg. Shoe Joint 20 Cement Amount Ordered 180 sx com, 3% cc, 2% gel

Meas Line Displace 18

**EQUIPMENT**

Pumptrk 17 No. Cementer	Common
Helper Lonnie W.	Poz. Mix
Bulktrk 3 No. Driver	Gel.
Driver Chel	Calcium
Bulktrk Pu No. Driver	Hulls
Driver Travis	Salt

**JOB SERVICES & REMARKS**

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

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

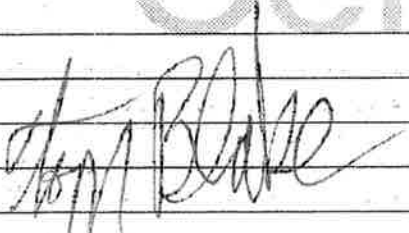
Pumptrk Charge

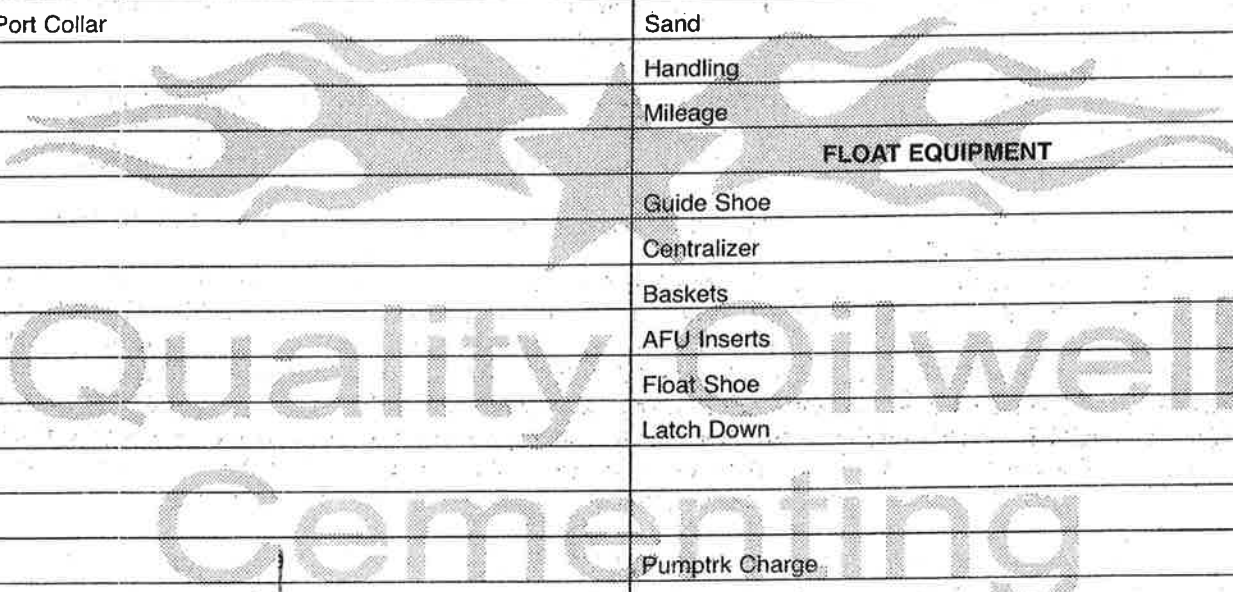
Mileage

Tax

Discount

Total Charge

X Signature 



# 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. 861

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-30-14	33	15	10	Ellsworth	KS		12:00PM

Location Wilson 5 to K Rd, 3E, 1 1/2 S, En 2

Lease <u>Zabolanek Heirs</u>	Well No.	Owner
Contractor <u>Royal #2</u>		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 <u>Plug</u>		
Hole Size <u>7 7/8"</u>	T.D. <u>3337 1/2</u>	Charge To <u>Bennett &amp; Schulte</u>
Csg.	Depth	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <u>210sx 60/40, 4 1/2 gel, 1/4 # Flow</u>
Meas Line	Displace	

**EQUIPMENT**

Pumptrk <u>18</u> No.	Cementer	Common
	Helper <u>Cody</u>	Poz. Mix
Bulktrk <u>14</u> No.	Driver <u>Taylor</u>	Gel.
Bulktrk <u>PU</u> No.	Driver <u>Fraw</u>	Calcium

**JOB SERVICES & REMARKS**

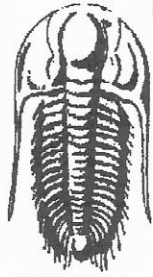
Remarks:	Hulls.
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<u>35 sx at <del>3298</del> 3298</u>	Sand
<u>35 sx at 1250</u>	Handling
<u>35 sx at 925</u>	Mileage

**FLOAT EQUIPMENT**

<u>35 sx at 355</u>	Guide Shoe
<u>2 1/2 sx at 60 with wood plug</u>	Centralizer
<u>30 sx Rat</u>	Baskets
<u>15 sx Mouse</u>	AFU Inserts
	Float Shoe
	Latch Down
	<u>1 wood plug</u>
	Pumptrk Charge
	Mileage

Signature Tom Blake

Tax  
Discount  
Total Charge



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Benbnett & Schulte Oil**

PO Box 329 Russell KS 67665+0329

ATTN: Bob Hopkins

**Zvolanek Heirs 33-1**

**33-15-10 Ellsworth**

Start Date: 2014.09.28 @ 08:35:00

End Date: 2014.09.28 @ 13:05:00

Job Ticket #: 60443                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.09.28 @ 13:25:54

Benbnett & Schulte Oil  
33-15-10 Ellsworth  
Zvolanek Heirs 33-1  
DST # 1  
Lansing C  
2014.09.28



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Benbennett & Schulte Oil  
 PO Box 329 Russell KS 67665+0329  
 ATTN: Bob Hopkins

**33-15-10 Ellsworth**  
**Zvolanek Heirs 33-1**  
 Job Ticket: 60443 **DST#: 1**  
 Test Start: 2014.09.28 @ 08:35:00

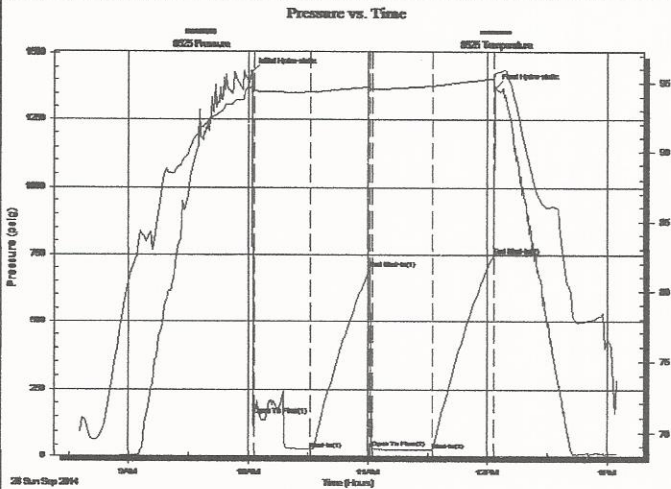
**GENERAL INFORMATION:**

Formation: **Lansing C**  
 Deviated: **No Whipstock:** ft (KB)  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **10:03:00**  
 Tester: **Jared Scheck**  
 Time Test Ended: **13:05:00**  
 Unit No: **S5-Great Bend -70**  
 Interval: **2913.00 ft (KB) To 2931.00 ft (KB) (TVD)**  
 Reference Elevations: **1750.00 ft (KB)**  
 Total Depth: **2931.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 KB to GR/CF: **7.00 ft**

**Serial #: 8525**

Press@RunDepth: **26.63 psig @** ft (KB) Capacity: **5000.00 psig**  
 Start Date: **2014.09.28** End Date: **2014.09.28** Last Calib.: **2014.09.28**  
 Start Time: **08:35:00** End Time: **13:05:00** Time On Btm: **2014.09.28 @ 10:02:00**  
 Time Off Btm: **2014.09.28 @ 12:04:00**

**TEST COMMENT:** IFP-30 Minutes-Strong blow built bottom of bucket in 2 1/2 minutes  
 ISIP-30 Minutes-No blow back  
 FFP-30 Minutes-Strong blow built bottom of bucket in 1 minute Gas to surface 10 see gas report  
 FSIP-30-Minutes-No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1433.04	94.73	Initial Hydro-static
1	152.46	94.45	Open To Flow (1)
30	31.10	94.36	Shut-In (1)
59	695.48	94.74	End Shut-In (1)
61	38.22	94.59	Open To Flow (2)
91	26.63	94.79	Shut-In (2)
121	745.97	95.29	End Shut-In (2)
122	1372.48	95.67	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	mud	0.21
0.00	2908 gas in pipe	0.00

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Benbnett & Schulte Oil

**33-15-10 Ellsworth**

PO Box 329 Russell KS 67665+0329

**Zvolanek Heirs 33-1**

Job Ticket: 60443

**DST#: 1**

ATTN: Bob Hopkins

Test Start: 2014.09.28 @ 08:35:00

**Tool Information**

Drill Pipe:	Length: 2923.00 ft	Diameter: 3.80 inches	Volume: 41.00 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 41.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	2913.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			2898.00	
Hydraulic tool	5.00			2903.00	
Packer	5.00			2908.00	20.00 Bottom Of Top Packer
Packer	5.00			2913.00	
Recorder	1.00		Inside	2914.00	
Recorder	1.00		Outside	2915.00	
Anchor	13.00			2928.00	
Bullnose	3.00			2931.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Benbnett & Schulte Oil  
PO Box 329 Russell KS 67665+0329  
ATTN: Bob Hopkins

**33-15-10 Ellsworth**  
**Zvolanek Heirs 33-1**  
Job Ticket: 60443      **DST#: 1**  
Test Start: 2014.09.28 @ 08:35:00

**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:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.210
0.00	2908 gas in pipe	0.000

Total Length: 15.00 ft      Total Volume: 0.210 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: max gas gauge 2.69

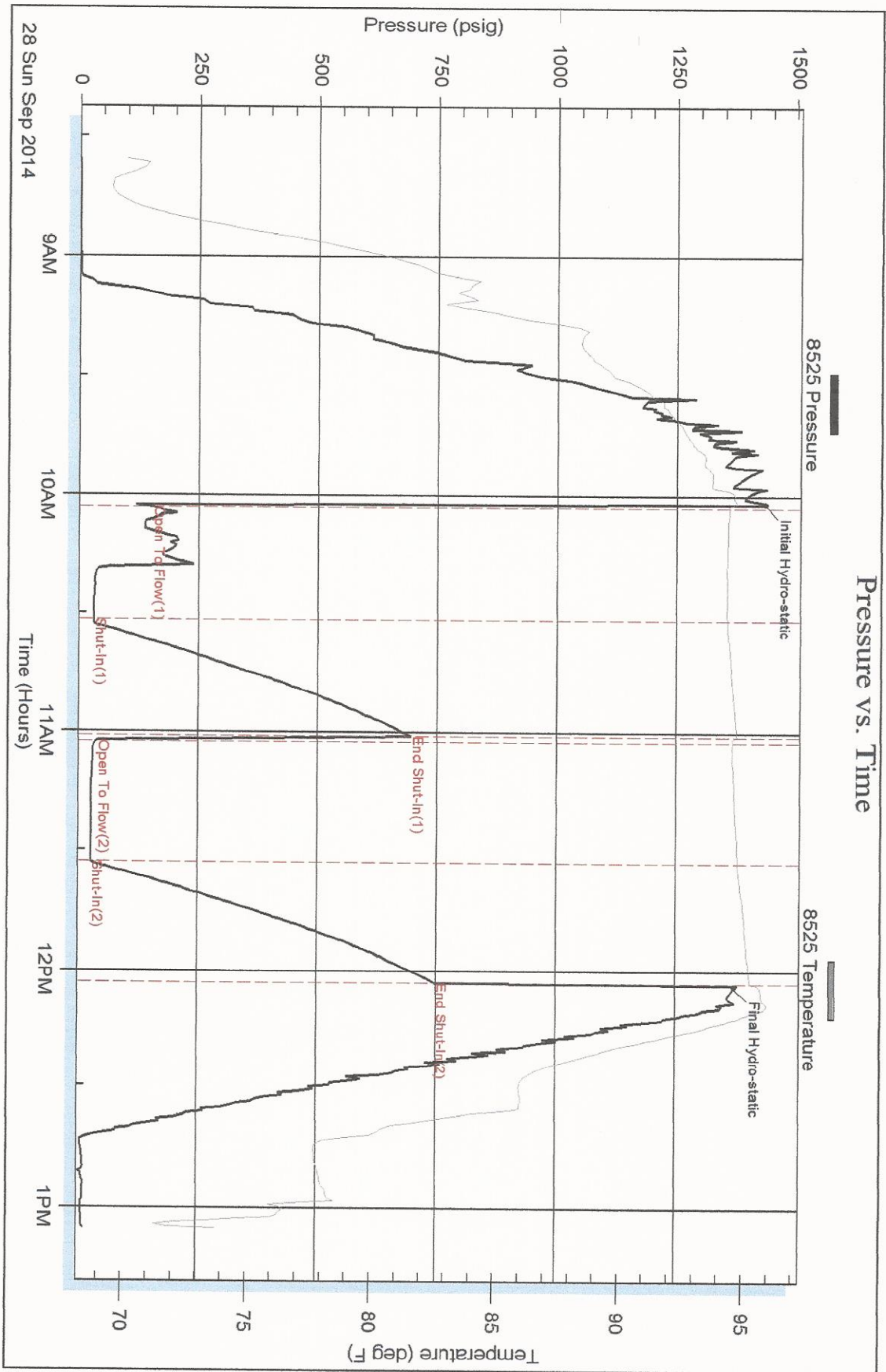
Serial #: 8525

Benbnett & Schulte Oil

Zvolanek Heirs 33-1

DST Test Number: 1

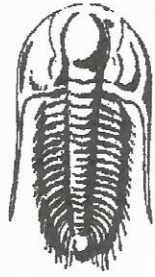
### Pressure vs. Time



Tribble Testing, Inc

Ref. No: 60443

Printed: 2014.09.28 @ 13:25:54



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Benbnett & Schulte Oil**

PO Box 329 Russell KS 67665+0329

ATTN: Bob Hopkins

**Zvolanek Heirs 33-1**

**33-15-10 Ellsworth**

Start Date: 2014.09.29 @ 10:40:00

End Date: 2014.09.29 @ 15:14:00

Job Ticket #: 60444      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.09.29 @ 15:30:27

Benbnett & Schulte Oil    33-15-10 Ellsworth    Zvolanek Heirs 33-1    DST # 2    Conn    2014.09.29



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Benbnett & Schulte Oil  
 PO Box 329 Russell KS 67665+0329  
 ATTN: Bob Hopkins

**33-15-10 Ellsworth**  
**Zvolanek Heirs 33-1**  
 Job Ticket: 60444 **DST#: 2**  
 Test Start: 2014.09.29 @ 10:40:00

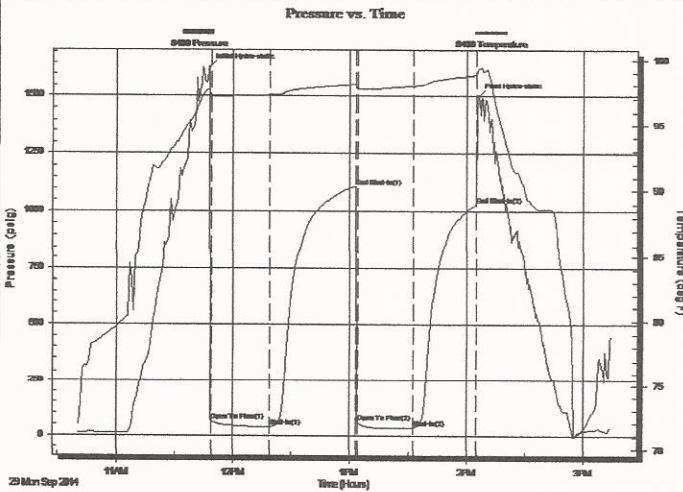
**GENERAL INFORMATION:**

Formation: **Conn**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: **11:49:00**  
 Time Test Ended: **15:14:00**  
 Interval: **3233.00 ft (KB) To 3244.00 ft (KB) (TVD)**  
 Total Depth: **3244.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Jared Scheck**  
 Unit No: **S5-Great Bend-70**  
 Reference Elevations: **1750.00 ft (KB)**  
**1743.00 ft (CF)**  
**KB to GR/CF: 7.00 ft**

**Serial #: 8400**

Press@RunDepth: **33.62 psig @ ft (KB)** Capacity: **5000.00 psig**  
 Start Date: **2014.09.29** End Date: **2014.09.29** Last Calib.: **2014.09.29**  
 Start Time: **10:40:00** End Time: **15:14:00** Time On Btm: **2014.09.29 @ 11:48:00**  
 Time Off Btm: **2014.09.29 @ 14:06:00**

**TEST COMMENT:** IFP-30 Minutes-Very weak blow built 1/2 inch into bucket w ater  
 ISIP-45 Minutes-No blow back  
 FFP-30Minutes-Very weak blow did not build  
 FSIP-30 Minutes-No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.92	97.63	Initial Hydro-static
1	63.72	97.19	Open To Flow (1)
31	36.82	97.24	Shut-In(1)
75	1108.24	98.08	End Shut-In(1)
76	58.67	97.73	Open To Flow (2)
105	33.62	97.95	Shut-In(2)
137	1031.62	98.80	End Shut-In(2)
138	1498.12	99.30	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	OM 30%oil 70%mud	0.07

**Gas Rates**

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Benbnett & Schulte Oil  
 PO Box 329 Russell KS 67665+0329  
 ATTN: Bob Hopkins

**33-15-10 Ellsworth**  
**Zvolanek Heirs 33-1**  
 Job Ticket: 60444      **DST#: 2**  
 Test Start: 2014.09.29 @ 10:40:00

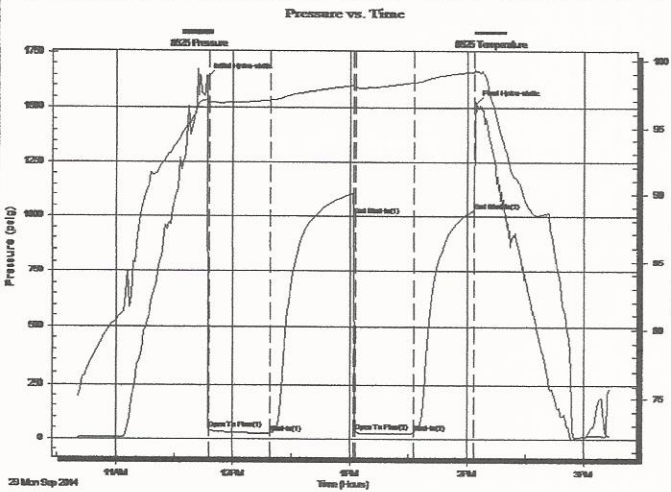
**GENERAL INFORMATION:**

Formation: **Conn**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: 11:49:00  
 Time Test Ended: 15:14:00  
 Interval: **3233.00 ft (KB) To 3244.00 ft (KB) (TVD)**  
 Total Depth: **3244.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Jared Scheck**  
 Unit No: **S5-Great Bend-70**  
 Reference Elevations: **1750.00 ft (KB)**  
**1743.00 ft (CF)**  
 KB to GR/CF: **7.00 ft**

**Serial #: 8525**

Press@RunDepth: **1028.66 psig @ ft (KB)** Capacity: **5000.00 psig**  
 Start Date: **2014.09.29** End Date: **2014.09.29** Last Calib.: **2014.09.29**  
 Start Time: **10:40:00** End Time: **15:13:30** Time On Btm: **2014.09.29 @ 11:47:00**  
 Time Off Btm: **2014.09.29 @ 14:04:30**

**TEST COMMENT:** IFP-30 Minutes-Very weak blow built 1/2 inch into bucket w ater  
 ISIP-45 Minutes-No blow back  
 FFP-30Minutes-Very weak blow did not build  
 FSIP-30 Minutes-No blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.60	97.16	Initial Hydro-static
1	40.86	96.86	Open To Flow (1)
32	25.71	97.03	Shut-In(1)
75	1005.62	98.08	End Shut-In(1)
76	34.59	97.96	Open To Flow (2)
106	28.85	98.35	Shut-In(2)
137	1028.66	99.16	End Shut-In(2)
138	1519.95	99.23	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	OM 30%oil 70%mud	0.07

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Benbnett & Schulte Oil

**33-15-10 Ellsworth**

PO Box 329 Russell KS 67665+0329

**Zvolanek Heirs 33-1**

Job Ticket: 60444

**DST#: 2**

ATTN: Bob Hopkins

Test Start: 2014.09.29 @ 10:40:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	OM 30%oil 70%mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

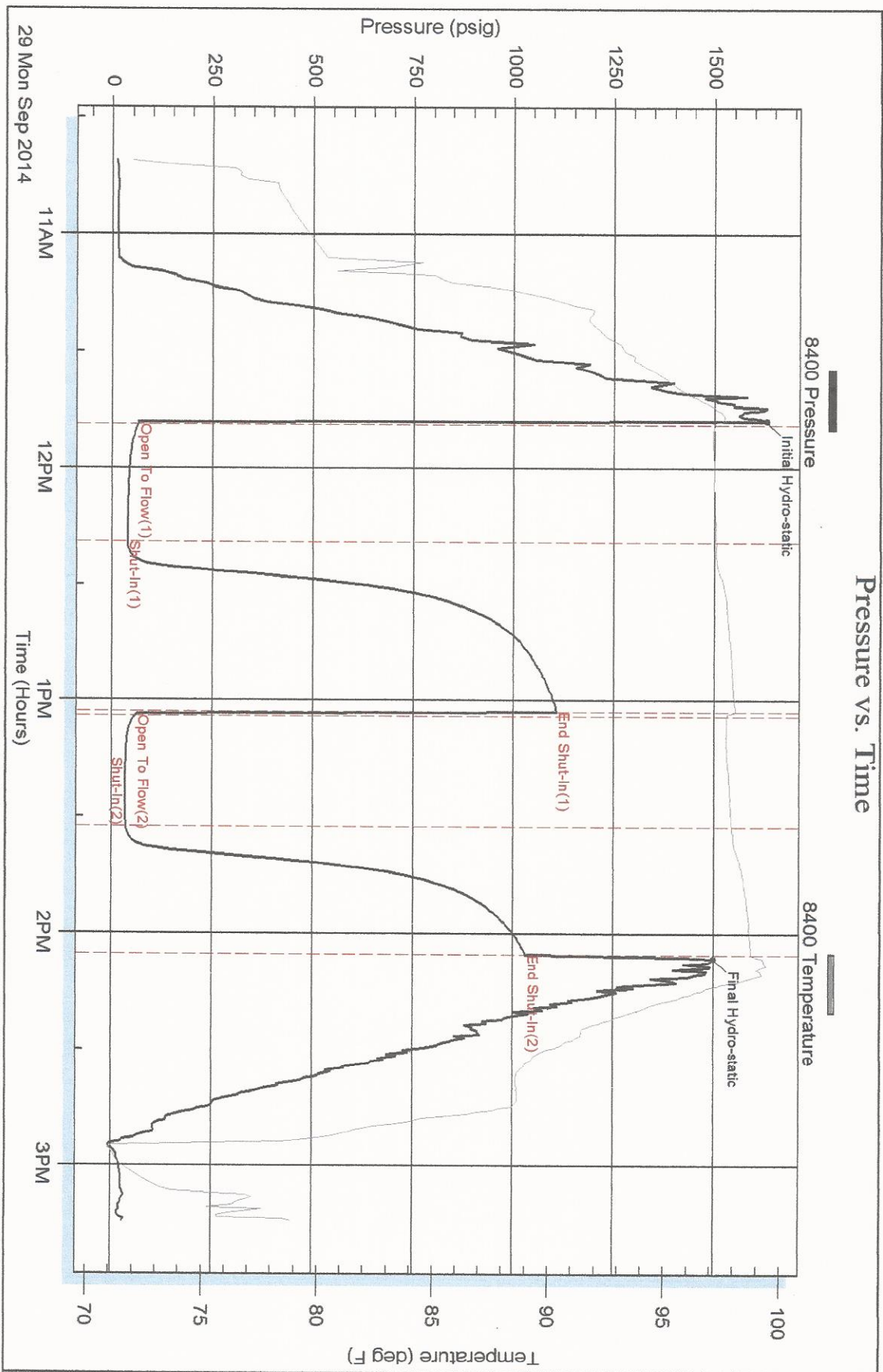
Serial #: 8400

Bennett & Schulte Oil

Zvolanek Heirs 33-1

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 60444

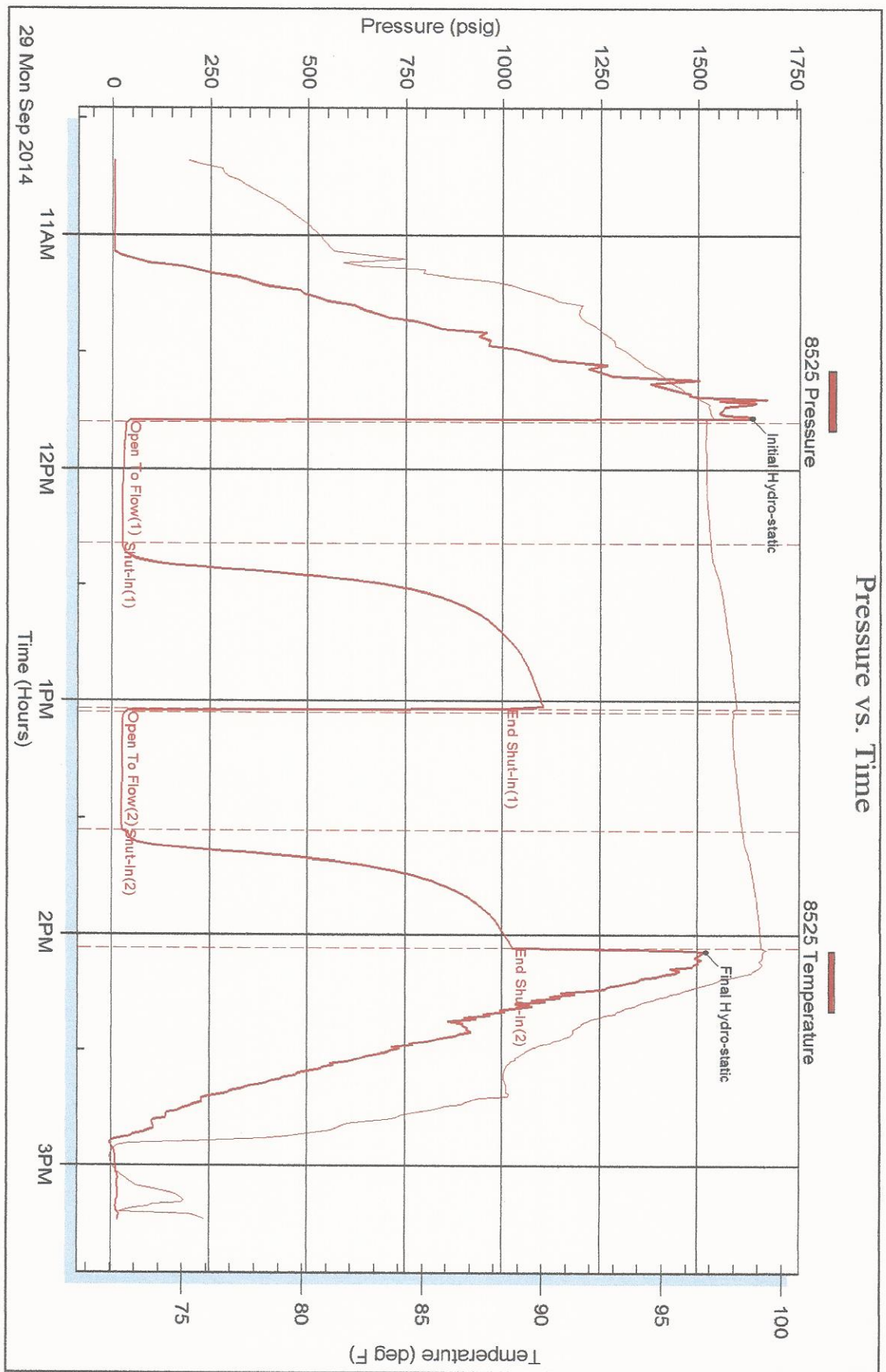
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Serial #: 8525

Benbrett & Schulte Oil

Zvolanek Heirs 33-1

DST Test Number: 2

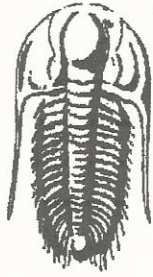


Trilobite Testing, Inc

Ref. No: 60444

Printed: 2014.09.29 @ 15:33:27





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Benbnett & Schulte Oil**

PO Box 329 Russell KS 67665+0329

ATTN: Bob Hopkins

**Zvolanek Heirs 33-1**

**33-15-10 Ellsworth**

Start Date: 2014.09.29 @ 21:30:00

End Date: 2014.09.30 @ 04:12:00

Job Ticket #: 60445                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.09.30 @ 04:27:31

Benbnett & Schulte Oil

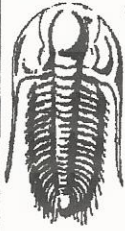
33-15-10 Ellsworth

Zvolanek Heirs 33-1

DST # 3

Arbuckle

2014.09.29



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Benbnett & Schulte Oil  
PO Box 329 Russell KS 67665+0329  
ATTN: Bob Hopkins

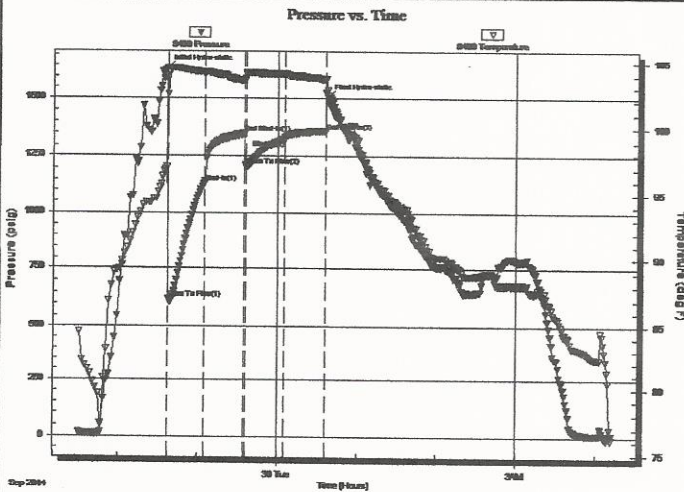
33-15-10 Ellsworth  
Zvolanek Heirs 33-1  
Job Ticket: 60445      DST#: 3  
Test Start: 2014.09.29 @ 21:30:00

### GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: **22:37:30**  
Time Test Ended: **04:12:00**  
Interval: **3233.00 ft (KB) To 3262.00 ft (KB) (TVD)**  
Total Depth: **3262.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole (Initial)**  
Tester: **Jared Scheck**  
Unit No: **S5-Great Bend-70**  
Reference Elevations: **1750.00 ft (KB)**  
**1743.00 ft (CF)**  
KB to GR/CF: **7.00 ft**

**Serial #: 8400**      **Inside**  
Press@RunDepth: **1326.16 psig @ 3234.00 ft (KB)**      Capacity: **5000.00 psig**  
Start Date: **2014.09.29**      End Date: **2014.09.30**      Last Calib.: **2014.09.30**  
Start Time: **21:30:00**      End Time: **04:12:00**      Time On Btm: **2014.09.29 @ 22:36:30**  
Time Off Btm: **2014.09.30 @ 00:37:30**

**TEST COMMENT:** FP-30Minutes-Strong blow built bottom of bucket in 30 sec  
ISIP-30Minutes-No blow back  
FFP-30Minutes-Strong blow built bottom of bucket in less then 1 minute  
FSIP-No blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1637.16	97.11	Initial Hydro-static
1	621.45	102.52	Open To Flow (1)
29	1137.24	104.23	Shut-In(1)
59	1348.13	103.63	End Shut-In(1)
60	1209.61	104.12	Open To Flow (2)
89	1326.16	104.11	Shut-In(2)
120	1359.10	103.65	End Shut-In(2)
121	1503.55	102.83	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
2760.00	Oil Water 15%oil 85%w ater	38.72
0.00	chlorides 28,000 .2@65degrees	0.00

### Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Benbrett & Schulte Oil  
 PO Box 329 Russell KS 67665+0329  
 ATTN: Bob Hopkins

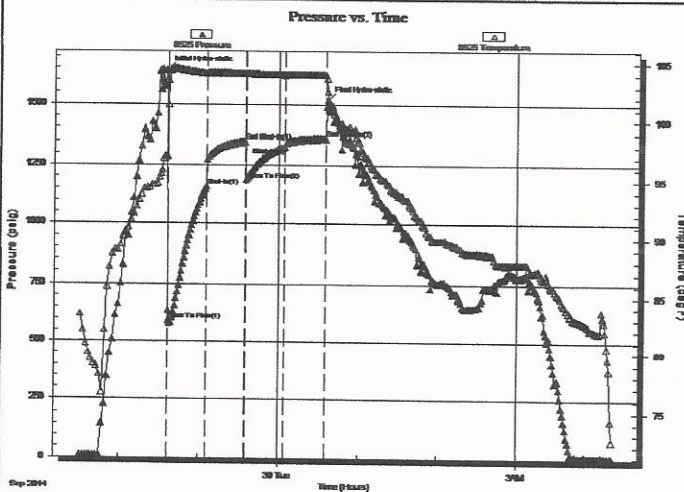
**33-15-10 Ellsworth**  
**Zvolanek Heirs 33-1**  
 Job Ticket: 60445      **DST#: 3**  
 Test Start: 2014.09.29 @ 21:30:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: **22:37:30**  
 Time Test Ended: **04:12:00**  
 Interval: **3233.00 ft (KB) To 3262.00 ft (KB) (TVD)**  
 Total Depth: **3262.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Jared Scheck**  
 Unit No: **S5-Great Bend-70**  
 Reference Elevations: **1750.00 ft (KB)**  
**1743.00 ft (CF)**  
**KB to GR/CF: 7.00 ft**

**Serial #: 8525**      **Outside**  
 Press@RunDepth: **1360.50 psig @ 3235.00 ft (KB)**  
 Start Date: **2014.09.29**      End Date: **2014.09.30**  
 Start Time: **21:30:00**      End Time: **04:12:00**  
 Capacity: **5000.00 psig**  
 Last Calib.: **2014.09.30**  
 Time On Btm: **2014.09.29 @ 22:36:00**  
 Time Off Btm: **2014.09.30 @ 00:37:00**

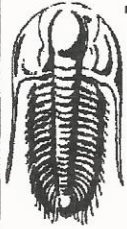
**TEST COMMENT:** IFP-30Minutes-Strong blow built bottom of bucket in 30 sec  
 ISIP-30Minutes-No blow back  
 FFP-30Minutes-Strong blow built bottom of bucket in less then 1 minute  
 FSIP-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1642.73	97.11	Initial Hydro-static
1	591.65	101.42	Open To Flow (1)
30	1156.16	104.10	Shut-In(1)
59	1349.12	104.09	End Shut-In(1)
60	1186.55	104.07	Open To Flow (2)
89	1327.04	103.97	Shut-In(2)
120	1360.50	104.00	End Shut-In(2)
121	1519.46	102.59	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2760.00	Oil Water 15%oil 85%w ater	38.72
0.00	chlorides 28,000 .2@65degrees	0.00

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Benbnett & Schulte Oil  
PO Box 329 Russell KS 67665+0329  
ATTN: Bob Hopkins

**33-15-10 Ellsworth**  
**Zvolanek Heirs 33-1**  
Job Ticket: 60445      **DST#: 3**  
Test Start: 2014.09.29 @ 21:30:00

**Tool Information**

Drill Pipe:	Length: 3216.00 ft	Diameter: 3.80 inches	Volume: 45.11 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3233.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description      Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

Shut In Tool	5.00			3218.00	
Hydraulic tool	5.00			3223.00	
Packer	5.00			3228.00	20.00      Bottom Of Top Packer
Packer	5.00			3233.00	
Recorder	1.00	8400	Inside	3234.00	
Recorder	1.00	8525	Outside	3235.00	
Anchor	24.00			3259.00	
Bullnose	3.00			3262.00	29.00      Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Benbnet & Schulte Oil

**33-15-10 Ellsworth**

PO Box 329 Russell KS 67665+0329

**Zvolanek Heirs 33-1**

Job Ticket: 60445

**DST#: 3**

ATTN: Bob Hopkins

Test Start: 2014.09.29 @ 21:30:00

**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: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
2760.00	Oil Water 15%oil 85%w ater	38.716
0.00	chlorides 28,000 .2@65degrees	0.000

Total Length: 2760.00 ft      Total Volume: 38.716 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

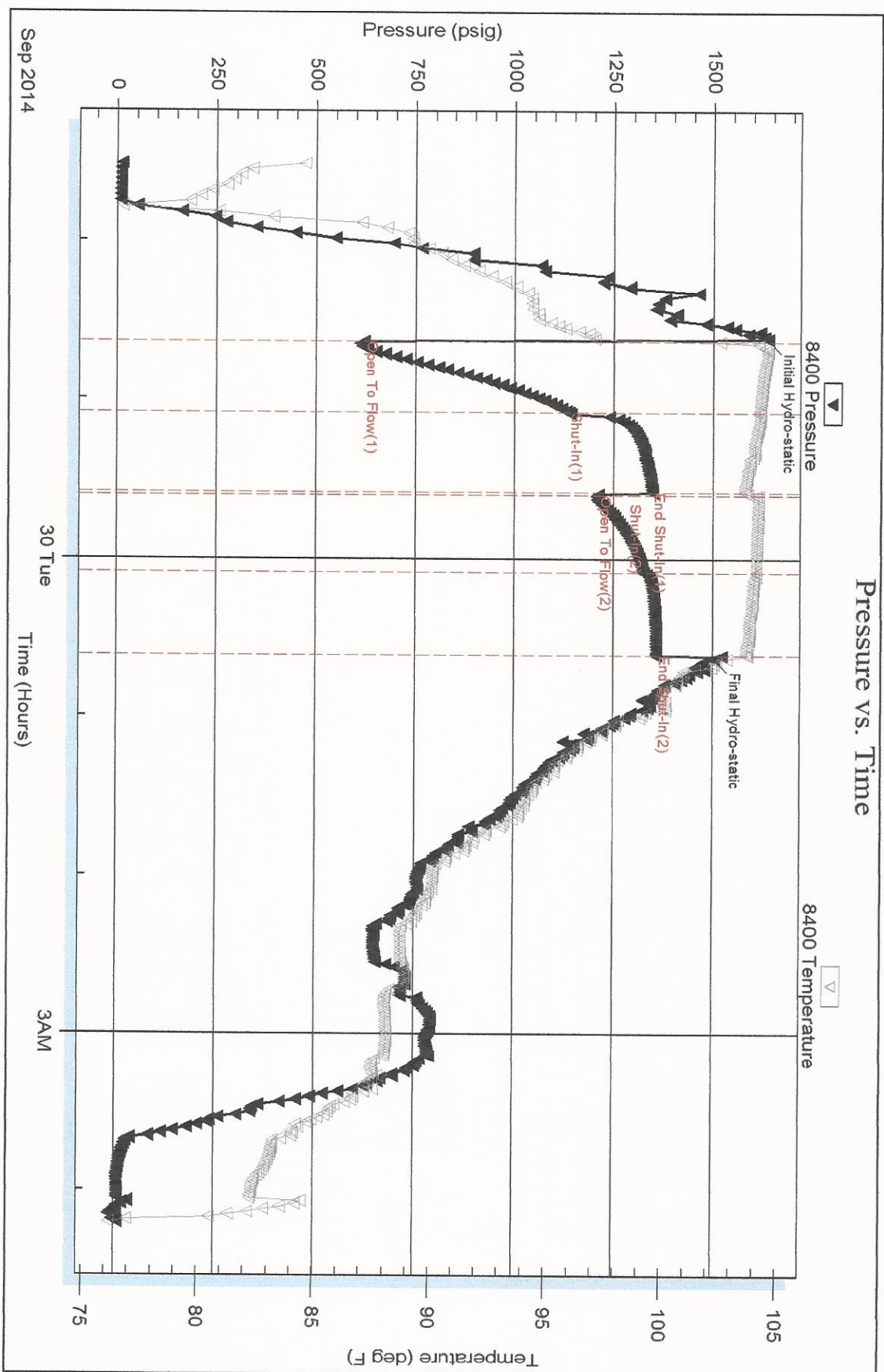
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Inside

Bennett & Schulte Oil

Zvolanek Heirs 33-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 60445

Printed: 2014.09.30 @ 04:27:32

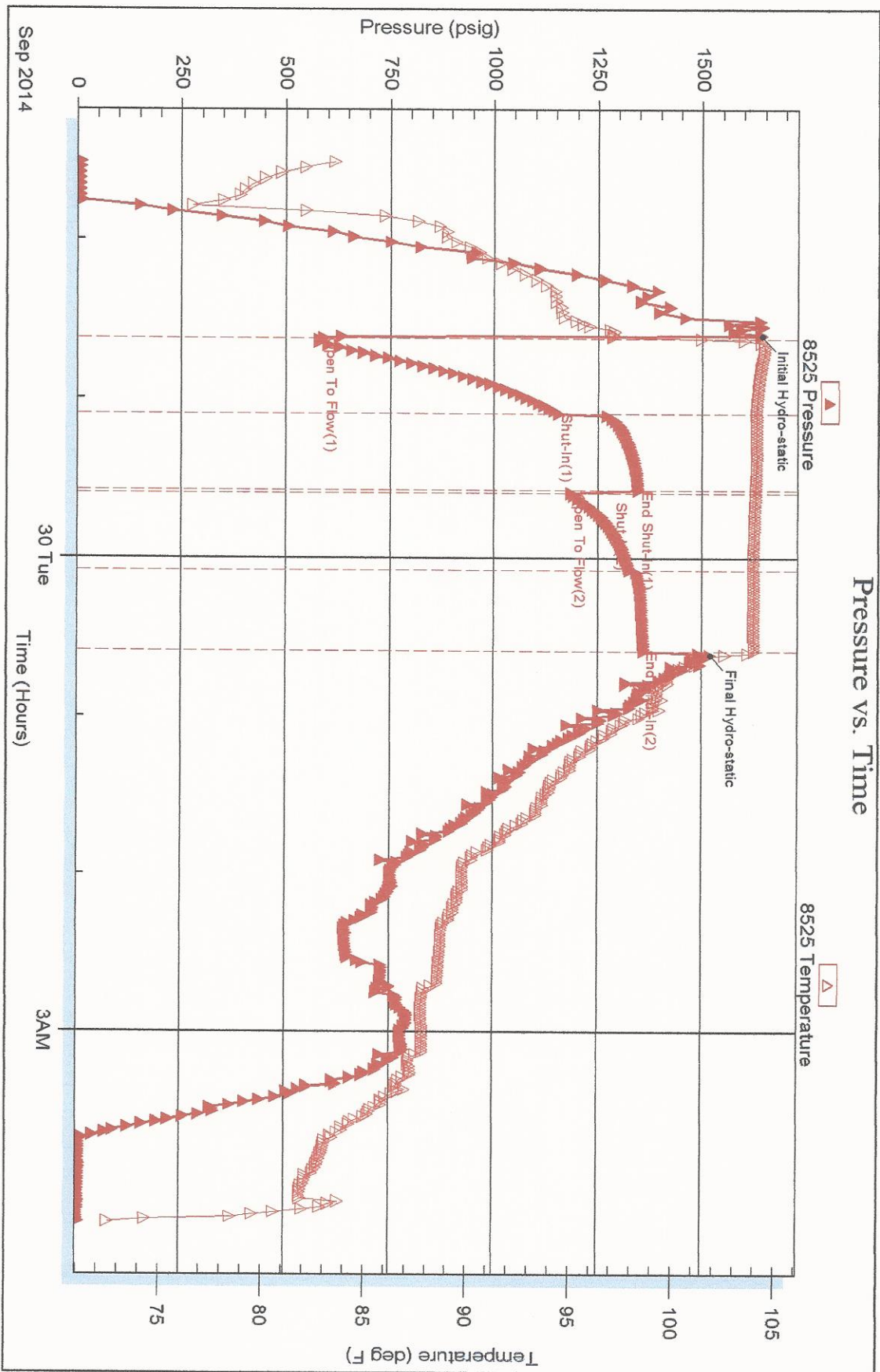
Serial #: 8525

Outside Bennett & Schulte Oil

Zvolanek Heirs 33-1

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 60445

Printed: 2014.09.30 @ 04:27:32