



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

B5 Operating LLC  
P.O. Box 45  
Wellington, KS 67152  
ATTN: Mitch Bartelson/Kevi

10-33S-3W Sumner, KS  
**Simons Brothers #3**  
Job Ticket: 63096          DST#: 4  
Test Start: 2017.01.09 @ 20:21:00

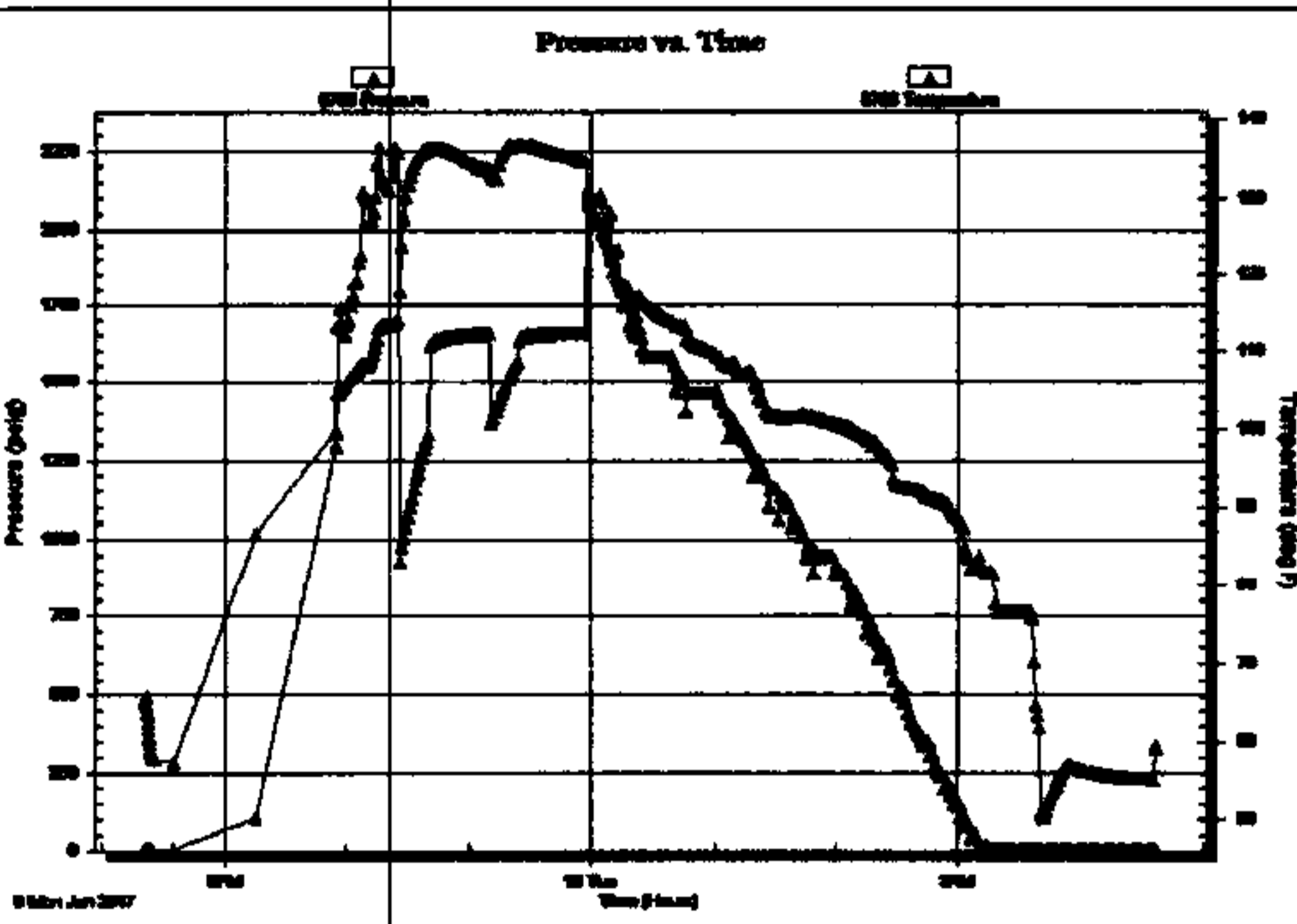
**GENERAL INFORMATION:**

Formation: <b>Simpson sand</b>	Test Type: Conventional Bottom Hole (Initial)
Deviated: No      Whipstock:      ft (KB)	Tester: Jimmy Ricketts
Time Tool Opened: 22:25:45	Unit No: 80
Time Test Ended: 04:36:45	
Interval: <b>4360.00 ft (KB) To 4456.00 ft (KB) (TVD)</b>	Reference Elevations: 1174.00 ft (KB)
Total Depth: <b>4456.00 ft (KB) (TVD)</b>	1169.00 ft (CF)
Hole Diameter: 7.88 inches	KB to GR/CF: 5.00 ft
Hole Condition: Fair	

**Serial #: 6798**

<b>Inside</b>		Capacity: 8000.00 psig
Press@RunDepth:      psig @      4361.00 ft (KB)	Start Date: 2017.01.09	Last Calib.: 1899.12.30
End Date: 2017.01.10	Start Time: 20:21:05	Time On Btm:
End Time: 04:36:59		Time Off Btm:

**TEST COMMENT:** IF - Strong blow throughout initial flow period.  
 FF - Strong blow throughout final flow period.  
 FS - Strong blow back during final shut-in period.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
2320.00	SW 100%W	31.48
250.00	MCW 88%W 12%M	3.51
250.00	GWM 5%G 40%W 55%M	3.51
380.00	GWCM 6%G 12%W 82%M	5.33

**Gas Rates**

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

B5 Operating LLC

**10-33S-3W Sumner,KS**

P.O. Box 45  
Wellington, KS 67152

**Simons Brothers #3**

Job Ticket: 63096 **DST#: 4**

ATTN: Mitch Bartelson/Kevi


Test Start: 2017.01.09 @ 20:21:00

## Tool Information

Drill Pipe:	Length: 4217.00 ft	Diameter: 3.80 inches	Volume: 59.15 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 59.73 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4360.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	124.00 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			4333.00	
Shut In Tool	5.00			4338.00	
Hydraulic tool	5.00			4343.00	
Jars	5.00			4348.00	
Safety Joint	3.00			4351.00	
Packer	4.00			4355.00	28.00 Bottom Of Top Packer
Packer	5.00			4360.00	
Stubb	1.00			4361.00	
Recorder	0.00	9124	Outside	4361.00	
Recorder	0.00	6798	Inside	4361.00	
Perforations	21.00			4382.00	
Change Over Sub	0.50			4382.50	
Blank Spacing	64.00			4446.50	
Change Over Sub	0.50			4447.00	
Perforations	4.00			4451.00	
Bullnose	5.00			4456.00	96.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>124.00</b>				

 <b>TRILOBITE TESTING, INC.</b>	<b>DRILL STEM TEST REPORT</b>	<b>FLUID SUMMARY</b>
	B5 Operating LLC P.O. Box 45 Wellington, KS 67152 ATTN: Mitch Bartelson/Kevi	10,33S-3W Sumner,KS <b>Simons Brothers #3</b> Job Ticket: 63096 <b>DST#: 4</b> Test Start: 2017.01.09 @ 20:21:00

**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:	145000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9000.00 ppm			
Filter Cake: inches			

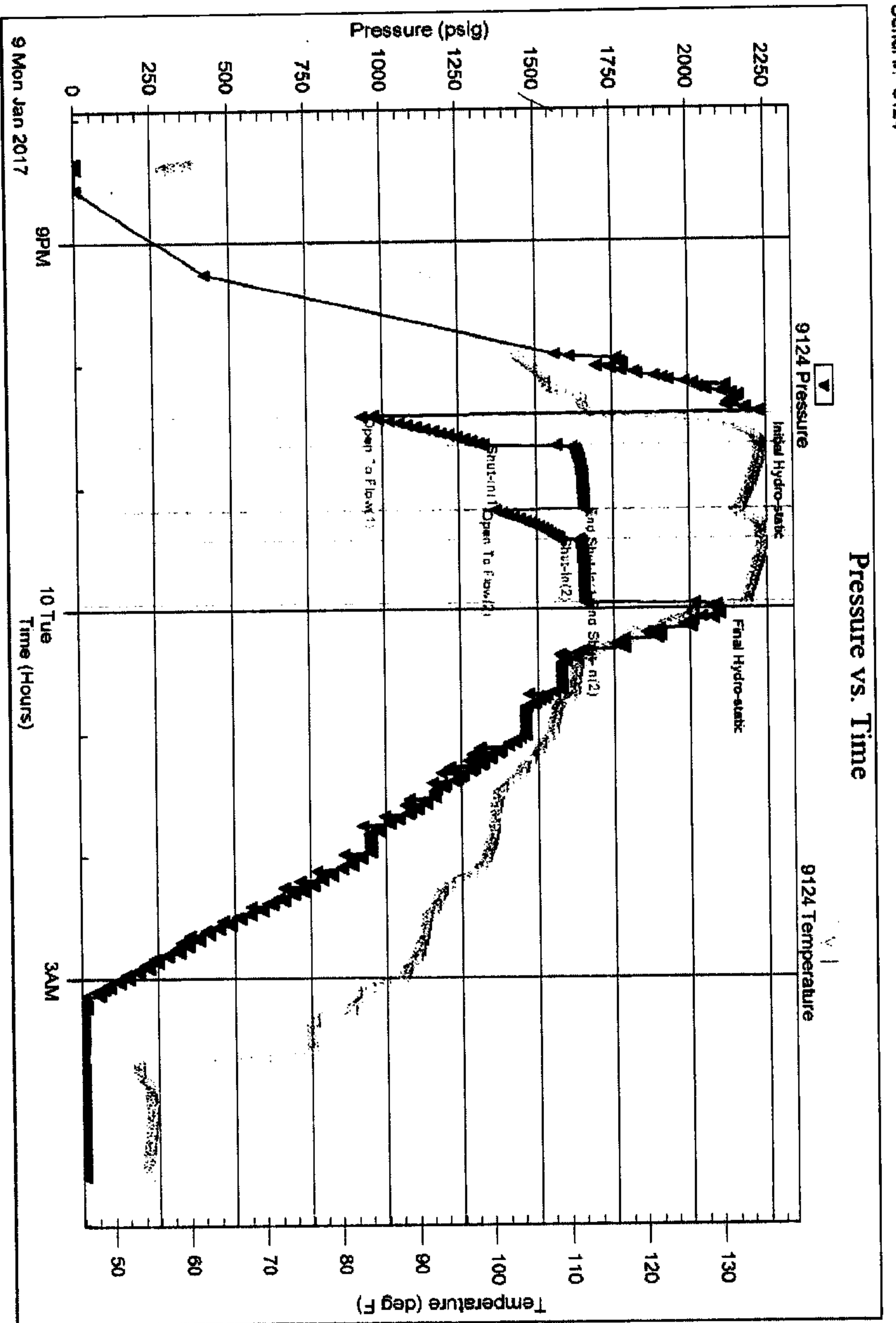
**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbl
2320.00	SW 100%W	31.478
250.00	MCW 88%W 12%M	3.507
250.00	GWM 5%G 40%W 55%M	3.507
380.00	GWCM 6%G 12%W 82%M	5.330

Total Length: 3200.00 ft      Total Volume: 43.822 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

# Pressure vs. Time



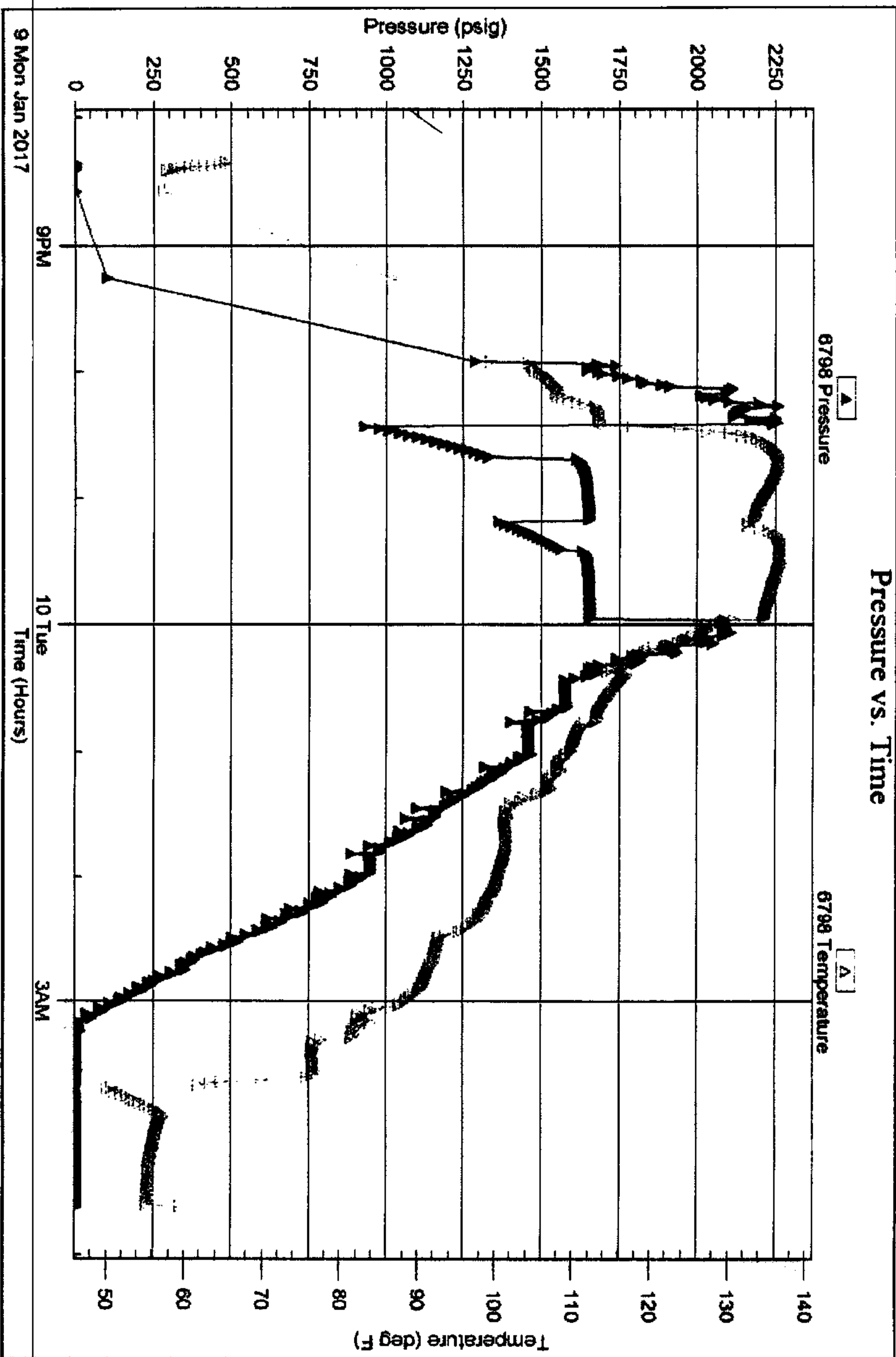
Serial #: 6798

Inside

B5 Operating LLC

Simons Brothers #3

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 63096

Printed: 2017.01.12 @ 10:05:10





# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO.         

Well Name & No. Simons Brothers Unit #3 Test No. 1 Date 1-5-16  
 Company BS Operating LLC Elevation 1174 KB 1169 G  
 Address P.O. Box 45 Wellington, Ks 67152  
 Co. Rep / Geo. Kevin Kessler / Mitch Bartelson Rig WW Drilling #8  
 Location: Sec. 10 Twp. 33S Rge. 3W Co. Sumner State KS

Interval Tested 3420 - 3450 Zone Tested Kansas City J  
 Anchor Length 30 Drill Pipe Run 3214 Mud Wt. 9.3  
 Top Packer Depth 3415 Drill Collars Run 117 Vis 58  
 Bottom Packer Depth 3420 Wt. Pipe Run 0 WL 13.8  
 Total Depth 3450 Chlorides 7000 ppm System LCM  
 Blow Description IF - new flow milling to Simons IFP  
FE - look for flow building to Simons FFP

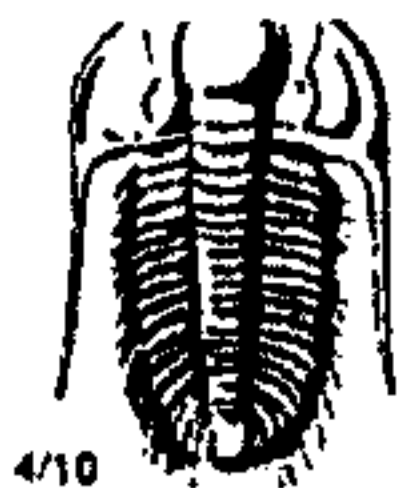
Rec	Feet of	%gas	%oil	%water	%sol
<u>177</u>	<u>oil + heavy mud cut water</u>		<u>70</u>	<u>29</u>	
Rec	Feet of	%gas	%oil	%water	%sol
Rec	Feet of	%gas	%oil	%water	%sol
Rec	Feet of	%gas	%oil	%water	%sol
Rec	Feet of	%gas	%oil	%water	%sol

Rec Total 175 BHT 1 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_

(A) Initial Hydrostatic	<u>1675</u>	<input checked="" type="checkbox"/> Test	<u>1050</u>	T-On Location	<u>1115</u>
(B) First Initial Flow	<u>25</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1334</u>
(C) First Final Flow	<u>77</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>1525</u>
(D) Initial Shut-In	<u>1134</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>1506</u>
(E) Second Initial Flow	<u>81</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>2000</u>
(F) Second Final Flow	<u>98</u>	<input checked="" type="checkbox"/> Mileage	<u>70.50 RT 94</u>	Comments	
(G) Final Shut-In	<u>1136</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1673</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
		<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Open	<u>5</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Initial Shut-In	<u>40</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Flow	<u>30</u>	<input type="checkbox"/> Day Standby		Total	<u>1370.50</u>
Final Shut-In	<u>56</u>	<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>1370.50</u>		

Approved By Kevin Kessler Our Representative Jimmy Richetto

Tribolite 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 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.



# TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 000000

Well Name & No. Simons Brothers Unit #3 Test No. 2 Date 1-17-17  
 Company BS Operating LLC Elevation 1174 KB 1169 GL  
 Address P.O. Box 45 Wellington, KS. 67152  
 Co. Rep / Geo. Kevin Kessler / Mitch Bartleson Rig Wur Drilling #8  
 Location: Sec. 10 Twp. 33 S Rge. 3 W Co. Sumner State KS

Interval Tested 3997 - 4005 Zone Tested Mississippian  
 Anchor Length 8' Drill Pipe Run 366 Mud Wt. 9.2  
 Top Packer Depth 3992 Drill Collars Run 117 Vis 60  
 Bottom Packer Depth 3977 Wt. Pipe Run 0 WL 10.4  
 Total Depth 4005 Chlorides 8000 ppm System LCM  
 Blow Description TF - strong blow throughout IFF. BoB in 1 min  
2' blow back during FSP  
FF - strong blow throughout FFP. Gas to surface 17 min into FF.

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>Gassy Heavy oil + mud cut with 26</u>	<u>26</u>	<u>30</u>	<u>18</u>	
<u>60</u>	<u>Gassy oil cut mud</u>	<u>16</u>	<u>12</u>	<u>0</u>	<u>72</u>

Rec Total 175 BHT 119 Gravity \_\_\_\_\_ API RW .114 @ 41 °F Chlorides 9000 ppm

(A) Initial Hydrostatic <u>2087</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0715</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:30</u>
(C) First Final Flow <u>46</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:26</u>
(D) Initial Shut-In <u>1460</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1556</u>
(E) Second Initial Flow <u>47</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1:00</u>
(F) Second Final Flow <u>64</u>	<input checked="" type="checkbox"/> Mileage <u>70.50 RT 94</u>	Comments _____
(G) Final Shut-In <u>1443</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1914</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1470.50</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1470.50</u>	

Approved By Kevin Kessler Our Representative Jimmy Diabetto

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TRILOBITE TESTING INC.

# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Gas Volume Report

3997-4c

BS Operating LLC  
Operator

Simons Brothers Unit #3  
Well Name and No.

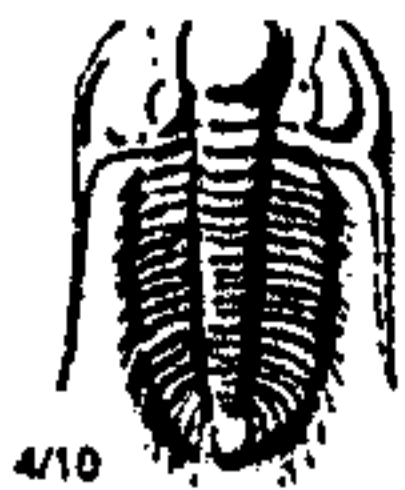
#2  
DST No.

Final Flow Period

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D
17			Gas to Surface				
22	13.5	1/4"	6513				
27	13.5	1/4"	6513				
30	13.5	1/4"	6513				

Remarks:





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 00000

Well Name & No. Simons Brothers unit #3 Test No. 3 Date 1-8-17  
 Company B S Operating LLC Elevation 1174 KB 1169 GL  
 Address P.O. Box 45 Wellington, KS 67150  
 Co. Rep / Geo. Kenn Kessler / Mitch Bartleson Rig W W Drilling # 8  
 Location: Sec. 10 Twp. 33 S Rge. 3 W Co. Sumner State KS

Interval Tested 4004-4012 Zone Tested Mississippian  
 Anchor Length 8' Drill Pipe Run 3866 Mud Wt. 9.2  
 Top Packer Depth 3999 Drill Collars Run 117 Vis 60  
 Bottom Packer Depth 4004 Wt. Pipe Run 0 WL 104  
 Total Depth 4012 Chlorides 8000 ppm System LCM

Blow Description IF - Strong blow throughout FFP. Bobs in less than 1 min IS - 10 inch blow back during FFP  
FF - weak blow building to strong blow 2 min into FFP  
Strong blow back during FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Mud cut water</u>		<u>97</u>	<u>3</u>	
<u>90</u>	<u>Gassy bit heavy water cut</u>	<u>10</u>	<u>9</u>	<u>20</u>	<u>61</u>
<u>1910</u>	<u>Gas in Pipe</u>	<u>100</u>			

Rec Total 210 BHT 123 Gravity API RW 104 @ 39 °F Chlorides 16000 ppm

(A) Initial Hydrostatic 2014  Test 1150 T-On Location 2100  
 (B) First Initial Flow 34  Jars 250 T-Started 0123  
 (C) First Final Flow 64  Safety Joint 75 T-Open 0311  
 (D) Initial Shut-In 1397  Circ Sub \_\_\_\_\_ T-Pulled 0341  
 (E) Second Initial Flow 78  Hourly Standby \_\_\_\_\_ T-Out 0720

(F) Second Final Flow 104  Mileage 70.50 RT 90 Comments \_\_\_\_\_  
 (G) Final Shut-In 1350  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1426  Straddle \_\_\_\_\_

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 20  
 Final Shut-In 45

Sub Total 1470.50 MP/DST Disc1 \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. \_\_\_\_\_

Well Name & No. Simons Brothers Unit #3 Test No. 4 Date 1-9-17  
 Company B5 Operating LLL Elevation 1174 KB 1169 GL \_\_\_\_\_  
 Address P.O. Box 45 Wellington KS. 67152  
 Co. Rep / Geo. Kevin Kessler / Mitch Bartleson WW Drilling #18  
 Location: Sec. 10 Twp. 35S Rge. 3W Co. Sumner State KS

Interval Tested 4360 - 4456 Zone Tested Simpson Sand  
 Anchor Length 96' Drill Pipe Run 4217 Mud Wt. 11.3  
 Top Packer Depth 4355 Drill Collars Run 117 Vis 46  
 Bottom Packer Depth 4360 Wt. Pipe Run 0 WL 10.4  
 Total Depth 4456 Chlorides 9000 ppm System LCM

Blow Description IF - Strong blow throughout initial flow period  
EF - Strong blow throughout final flow period  
FS - Strong blow back during final shut-in period

Rec	Feet of	%gas	%oil	%water	%sol
<u>2320</u>	<u>Salt water</u>		<u>100</u>		
<u>250</u>	<u>mud cut water</u>		<u>98</u>	<u>12</u>	
<u>250</u>	<u>Gassy heavy water cut Mud</u>	<u>5</u>	<u>40</u>	<u>55</u>	
<u>380</u>	<u>Gassy water cut Mud</u>	<u>6</u>	<u>12</u>	<u>82</u>	
<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>

Rec Total 3200 BHT 135 Gravity API RW .079 @ 52.6 °F Chlorides 145000  
 Test 1150 T-On Location 18.30  
 Jars 250 T-Started 20.21  
 Safety Joint 75 T-Open 22.25  
 Circ Sub \_\_\_\_\_ T-Pulled 23.55  
 Hourly Standby \_\_\_\_\_ T-Out 0400  
 Mileage 70.50 RT 99 Comments \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1470.50

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30  
 Approved By \_\_\_\_\_  
 Our Representative Jimmie [Signature]  
 Sub Total 0  
 Total 1470.50  
 MP/DST Disc't \_\_\_\_\_

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