



## DRILL STEM TEST REPORT

Prepared For: **D & J Investments**

PO Box 107  
El Dorado, KS 67042

ATTN: John Brickley

### **Seglem #4**

### **16-27S-6E Butler,KS**

Start Date: 2019.03.11 @ 14:08:00

End Date: 2019.03.11 @ 23:05:19

Job Ticket #: 63934                      DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2019.03.13 @ 13:35:37

D & J Investments

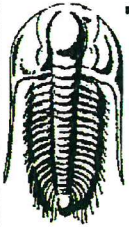
16-27S-6E Butler,KS

Seglem #4

DST # 1

Mississippian

2019.03.11



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

D & J Investments

16-27S-6E Butler, KS

PO Box 107  
El Dorado, KS 67042

Seglem #4

Job Ticket: 63934

DST#: 1

ATTN: John Brickley

Test Start: 2019.03.11 @ 14:08:00

### GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:23:00

Time Test Ended: 23:05:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 2750.00 ft (KB) To 2804.00 ft (KB) (TVD)

Reference Elevations: 1393.00 ft (KB)

Total Depth: 2804.00 ft (KB) (TVD)

1381.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8369

Outside

Press@RunDepth: 191.22 psig @ 2751.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.11

End Date: 2019.03.11

Last Calib.: 2019.03.11

Start Time: 14:08:01

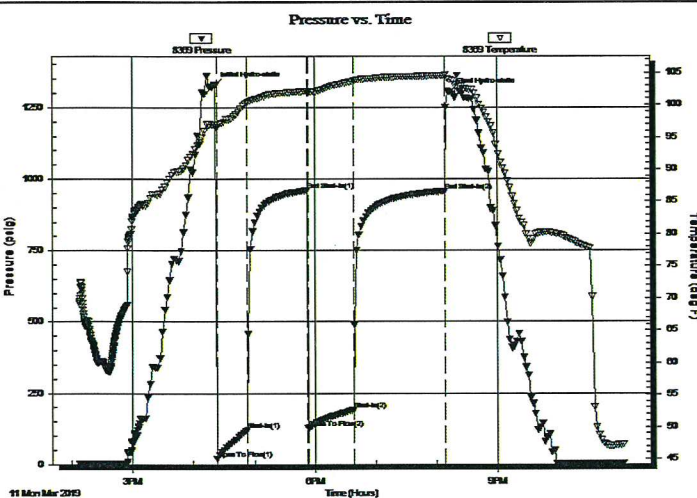
End Time: 23:05:19

Time On Btm: 2019.03.11 @ 16:21:50

Time Off Btm: 2019.03.11 @ 20:14:09

TEST COMMENT: IF - Weak blow building to strong blow 27 minutes into initial flow period. Continuing to build to 13"

FF - Weak blow building to strong blow 38 minutes into initial flow n period. Continuing to build to 13"



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1327.43	96.88	Initial Hydro-static
2	20.38	96.41	Open To Flow (1)
31	120.61	100.29	Shut-In(1)
91	959.36	102.11	End Shut-In(1)
92	126.56	101.81	Open To Flow (2)
137	191.22	103.68	Shut-In(2)
228	957.16	104.52	End Shut-In(2)
233	1304.16	103.92	Final Hydro-static

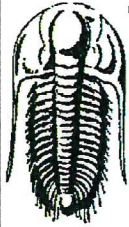
### Recovery

Length (ft)	Description	Volume (bbl)
490.00	MCW 78% W & 22% M	2.44
75.00	VSOCWM 1% O 37% W & 62% M	1.05

### Gas Rates

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





**TRILOBITE  
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## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

D & J Investments  
 PO Box 107  
 El Dorado, KS 67042  
 ATTN: John Brickley

**16-27S-6E Butler, KS**  
**Seglem #4**  
 Job Ticket: 63934      **DST#: 1**  
 Test Start: 2019.03.11 @ 14:08:00

### Tool Information

Drill Pipe:	Length: 2262.00 ft	Diameter: 3.80 inches	Volume: 31.73 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 21000.00 lb
Drill Collar:	Length: 487.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 59000.00 lb
			<u>Total Volume: 34.12 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	2750.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 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
Change Over Sub	1.00			2723.00	
Shut In Tool	5.00			2728.00	
Hydraulic tool	5.00			2733.00	
Jars	5.00			2738.00	
Safety Joint	3.00			2741.00	
Packer	5.00			2746.00	28.00      Bottom Of Top Packer
Packer	4.00			2750.00	
Stubb	1.00			2751.00	
Recorder	0.00	8369	Outside	2751.00	
Recorder	0.00	8846	Inside	2751.00	
Perforations	15.00			2766.00	
Change Over Sub	1.00			2767.00	
Blank Spacing	31.00			2798.00	
Change Over Sub	1.00			2799.00	
Bullnose	5.00			2804.00	54.00      Bottom Packers & Anchor

**Total Tool Length: 82.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

D & J Investments

**16-27S-6E Butler,KS**

PO Box 107  
El Dorado, KS 67042

**Seglem #4**

Job Ticket: 63934

**DST#: 1**

ATTN: John Brickley

Test Start: 2019.03.11 @ 14:08:00

## 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:

48000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
490.00	MCW 78% W & 22% M	2.437
75.00	VSOCWM 1% O 37% W & 62% M	1.052

Total Length: 565.00 ft

Total Volume: 3.489 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

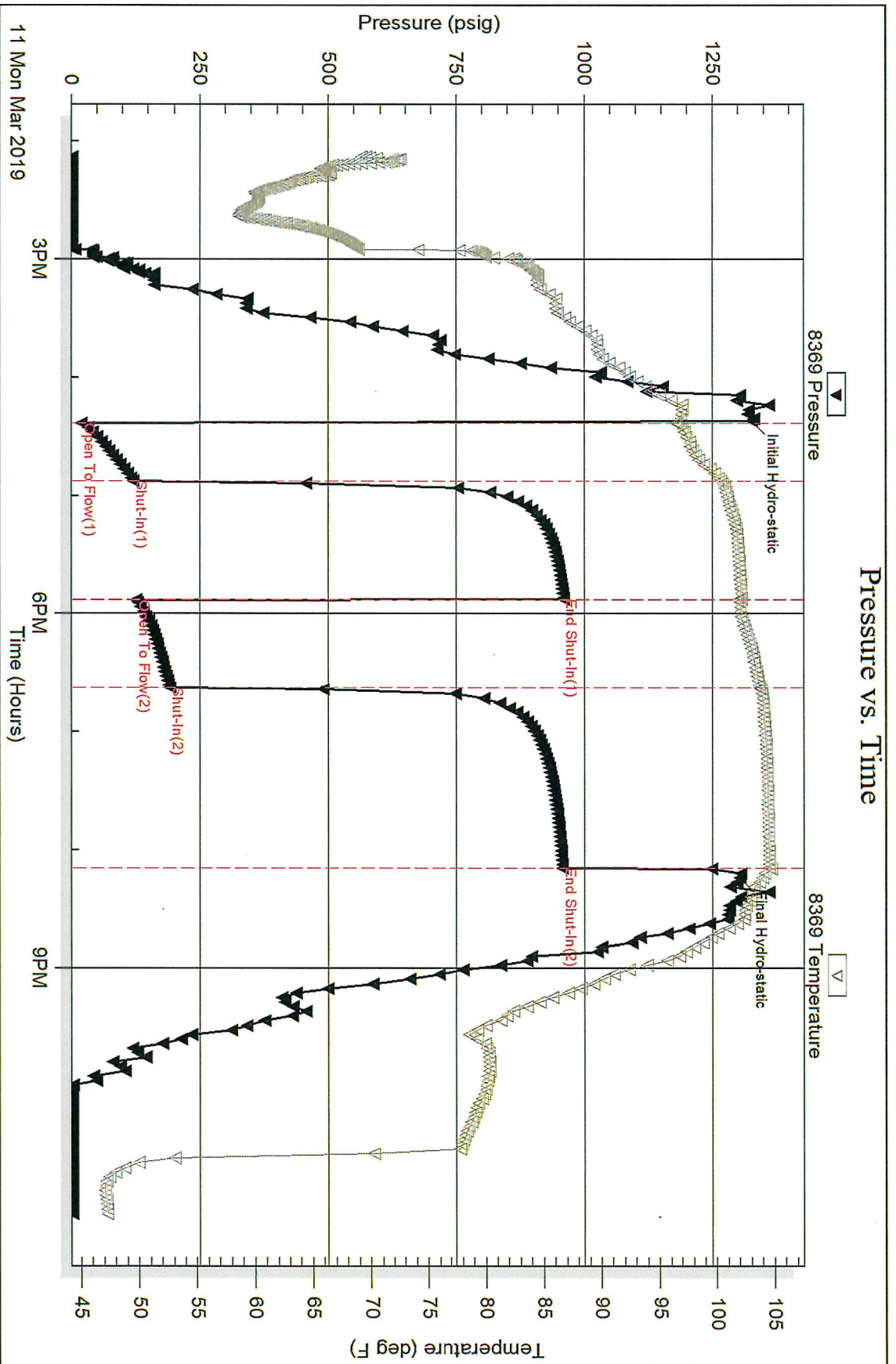
Recovery Comments:

Serial #: 8369

Outside D & J Investments

Seglem#4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63934

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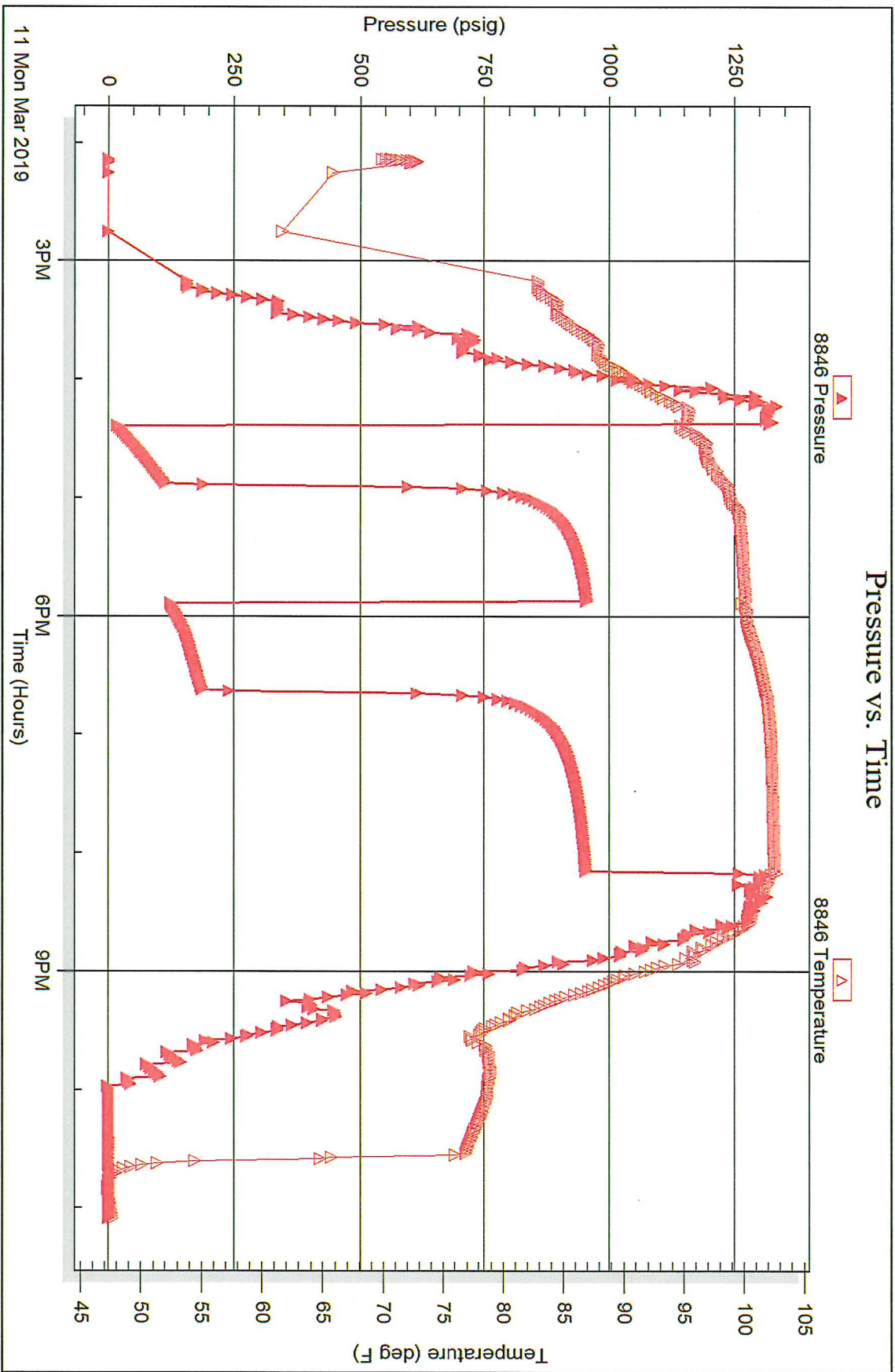
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Inside

D & J Investments

Seglem#4

DST Test Number: 1



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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63934

Well Name & No. Seglem #4 Test No. 1 Date 3-11-19  
 Company D+S Investments Elevation 1393 KB 1381 GL  
 Address 107 SE Bluestem Rd. P.O. Box 107 El Dorado, KS 67042  
 Co. Rep / Geo. John Brickley 316-322-7478 Rig Lighthouse #1  
 Location: Sec. 16 Twp 27 S Rge. 6 E Co. Butler State KS

Interval Tested 2750-2804 Zone Tested Mississippian  
 Anchor Length 54' Drill Pipe Run 2262 Mud Wt. 8.9  
 Top Packer Depth 2745 Drill Collars Run 487 Vis 48  
 Bottom Packer Depth 2750 Wt. Pipe Run 0 WL \_\_\_\_\_  
 Total Depth 2804 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_

Blow Description IF-weak blow building to strong blow 27 mins. into IFP  
Building to 13 inches IFP  
FF-weak blow building to strong blow 38 mins. into FFP, continuing to  
Build to 13 inches.

Rec	Feet of	%gas	%oil	%water	%mud
<u>490</u>	<u>Mud cut water</u>		<u>78</u>	<u>22</u>	
<u>75</u>	<u>oil spotted HWCM</u>		<u>37</u>	<u>62</u>	
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Rec Total 565 BHT 105 Gravity \_\_\_\_\_ API RW 0.181 @ 60.0° F Chlorides 48,000 ppm

(A) Initial Hydrostatic	<u>1327</u>	<input checked="" type="checkbox"/> Test	<u>\$1050</u>	<u>1200</u>	T-On Location	<u>1200</u>
(B) First Initial Flow	<u>20</u>	<input checked="" type="checkbox"/> Jars	<u>\$250</u>	<u>250</u>	T-Started	<u>1408</u>
(C) First Final Flow	<u>121</u>	<input checked="" type="checkbox"/> Safety Joint	<u>\$75</u>	<u>75</u>	T-Open	<u>1623</u>
(D) Initial Shut-In	<u>959</u>	<input type="checkbox"/> Circ Sub	_____	_____	T-Pulled	<u>2010</u>
(E) Second Initial Flow	<u>127</u>	<input type="checkbox"/> Hourly Standby	_____	_____	T-Out	<u>2315</u>
(F) Second Final Flow	<u>191</u>	<input checked="" type="checkbox"/> Mileage	<u>\$230</u>	<u>RT230</u>	Comments	_____
(G) Final Shut-In	<u>957</u>	<input type="checkbox"/> Sampler	_____	_____	_____	_____
(H) Final Hydrostatic	<u>1304</u>	<input type="checkbox"/> Straddle	_____	_____	<input type="checkbox"/> Ruined Shale Packer	_____

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 45  
 Final Shut-In 92

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

Sub Total 1755

MP/DST Disc't \_\_\_\_\_

Approved By [Signature] Our Representative [Signature]

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