



DRILL STEM TEST REPORT

Prepared For: **Stewart Producers Inc**

301 N 27th St Box 546
Mt Vernon IL 62864-0546

ATTN: Dave Goldak

Sutton 2

8 18s 24w Ness

Start Date: 2016.05.26 @ 07:14:00

End Date: 2016.05.26 @ 14:59:00

Job Ticket #: 64926 DST #: 1

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

Printed: 2016.05.27 @ 10:49:13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stewart Producers Inc
 301 N 27th St Box 546
 Mt Vernon IL 62864-0546
 ATTN: Dave Goldak

8 18s 24w Ness
Sutton 2
 Job Ticket: 64926 **DST#: 1**
 Test Start: 2016.05.26 @ 07:14:00

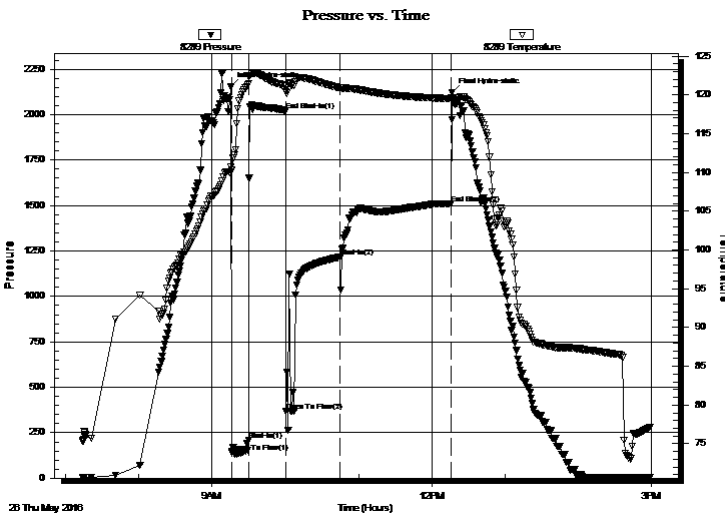
GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:16:00
 Time Test Ended: 14:59:00
 Interval: **4307.00 ft (KB) To 4347.00 ft (KB) (TVD)**
 Total Depth: 4347.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2332.00 ft (KB)
 2325.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8289 Outside
 Press@RunDepth: 1217.21 psig @ 4312.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.26 End Date: 2016.05.26 Last Calib.: 2016.05.26
 Start Time: 07:14:02 End Time: 14:59:00 Time On Btm: 2016.05.26 @ 09:15:30
 Time Off Btm: 2016.05.26 @ 12:16:30

TEST COMMENT: 15-IFP- BOB in 15 min.
 30-ISIP- Surface Blow in 2min. Building to 2". In 10 min.
 45-FFP- BOB in 1 1/2 min. Died Back to 8"
 90-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.64	110.72	Initial Hydro-static
1	139.69	110.27	Open To Flow (1)
15	208.18	121.46	Shut-In(1)
45	2023.48	121.12	End Shut-In(1)
45	366.71	120.34	Open To Flow (2)
90	1217.21	120.86	Shut-In(2)
180	1511.34	119.52	End Shut-In(2)
181	2120.56	119.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
435.00	OSM 1%o 99%m	5.00
267.00	MCO 25%m 75%o	3.75
45.00	CO 100%	0.63
0.00	250 GIP	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

Stewart Producers Inc
 301 N 27th St Box 546
 Mt Vernon IL 62864-0546
 ATTN: Dave Goldak

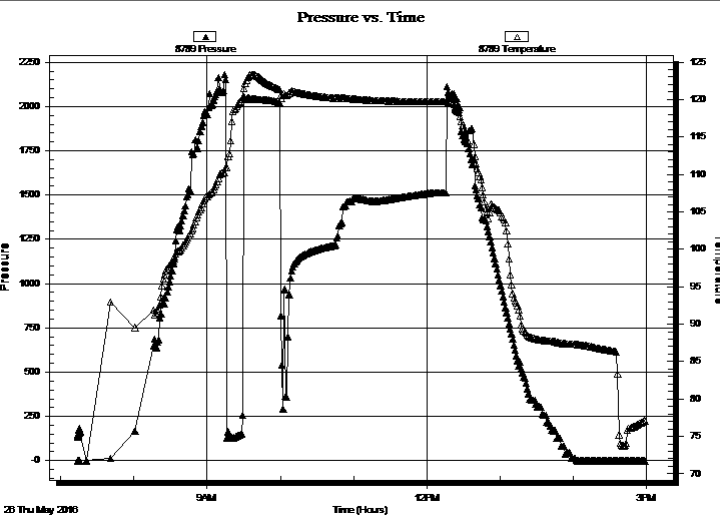
8 18s 24w Ness
Sutton 2
 Job Ticket: 64926 **DST#: 1**
 Test Start: 2016.05.26 @ 07:14:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:16:00
 Time Test Ended: 14:59:00
Interval: 4307.00 ft (KB) To 4347.00 ft (KB) (TVD)
 Total Depth: 4347.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2332.00 ft (KB)
 2325.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8789 Inside
 Press@RunDepth: psig @ 4312.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.26 End Date: 2016.05.26 Last Calib.: 2016.05.26
 Start Time: 07:14:02 End Time: 14:58:45 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15-IFP- BOB in 15 min.
 30-ISIP- Surface Blow in 2min. Building to 2". In 10 min.
 45-FFP- BOB in 1 1/2 min. Died Back to 8"
 90-FSIP- No Blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
435.00	OSM 1%o 99%m	5.00
267.00	MCO 25%m 75%o	3.75
45.00	CO 100%	0.63
0.00	250 GIP	0.00

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stewart Producers Inc

8 18s 24w Ness

301 N 27th St Box 546
Mt Vernon IL 62864-0546

Sutton 2

Job Ticket: 64926

DST#: 1

ATTN: Dave Goldak

Test Start: 2016.05.26 @ 07:14:00

Tool Information

Drill Pipe:	Length: 4169.00 ft	Diameter: 3.80 inches	Volume: 58.48 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 59.08 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4307.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	68.00 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			4280.00	
Shut In Tool	5.00			4285.00	
Hydraulic tool	5.00			4290.00	
Jars	5.00			4295.00	
Safety Joint	2.00			4297.00	
Packer	5.00			4302.00	28.00 Bottom Of Top Packer
Packer	5.00			4307.00	
Stubb	1.00			4308.00	
Perforations	3.00			4311.00	
Change Over Sub	1.00			4312.00	
Recorder	0.00	8789	Inside	4312.00	
Recorder	0.00	8289	Outside	4312.00	
Blank Spacing	31.00			4343.00	
Change Over Sub	1.00			4344.00	
Bullnose	3.00			4347.00	40.00 Bottom Packers & Anchor

Total Tool Length: 68.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Stewart Producers Inc

8 18s 24w Ness

301 N 27th St Box 546
Mt Vernon IL 62864-0546

Sutton 2

Job Ticket: 64926

DST#: 1

ATTN: Dave Goldak

Test Start: 2016.05.26 @ 07:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
435.00	OSM 1%o 99%m	5.000
267.00	MCO 25%m 75%o	3.745
45.00	CO 100%	0.631
0.00	250 GIP	0.000

Total Length: 747.00 ft

Total Volume: 9.376 bbl

Num Fluid Samples: 0

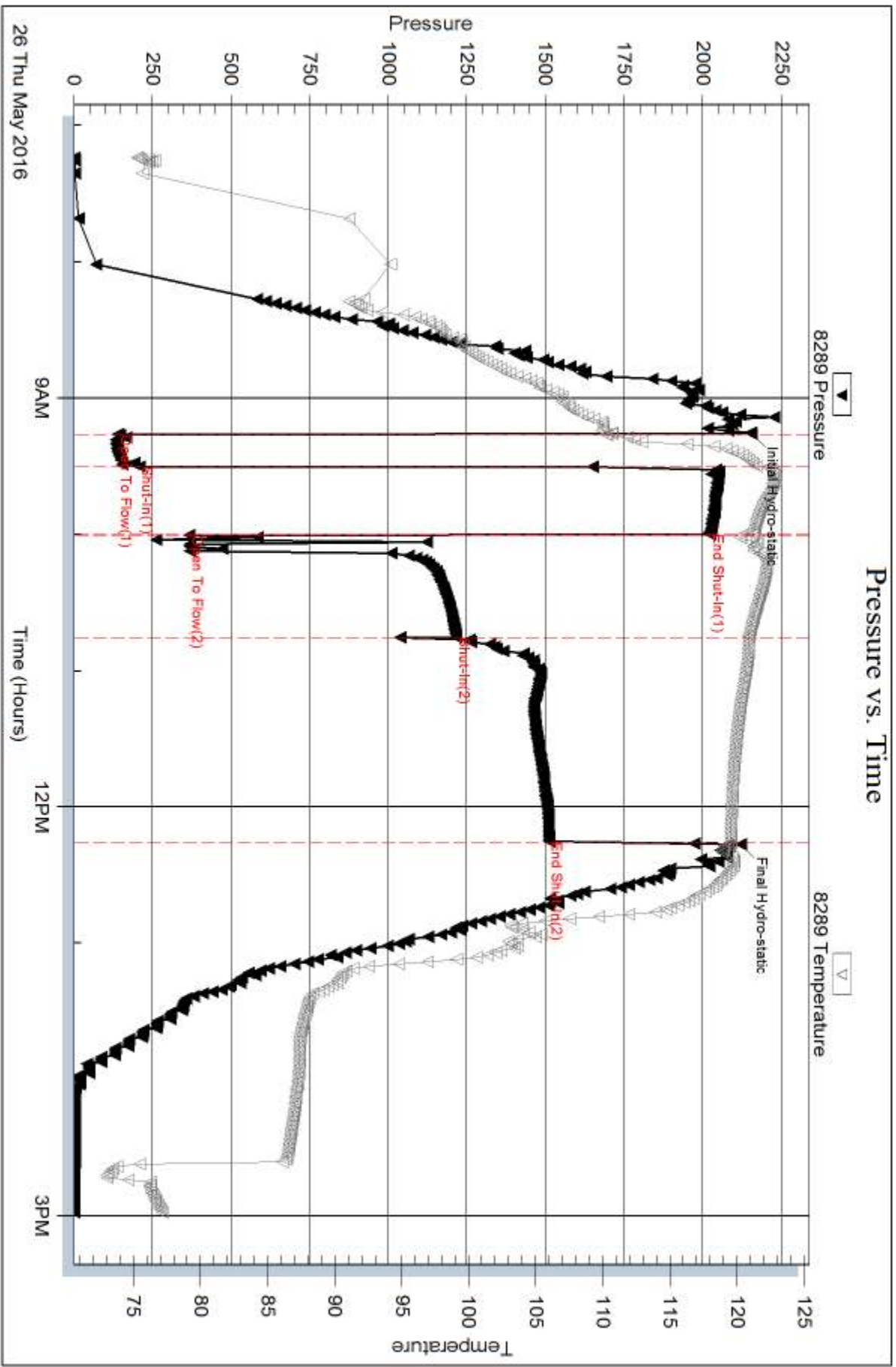
Num Gas Bombs: 0

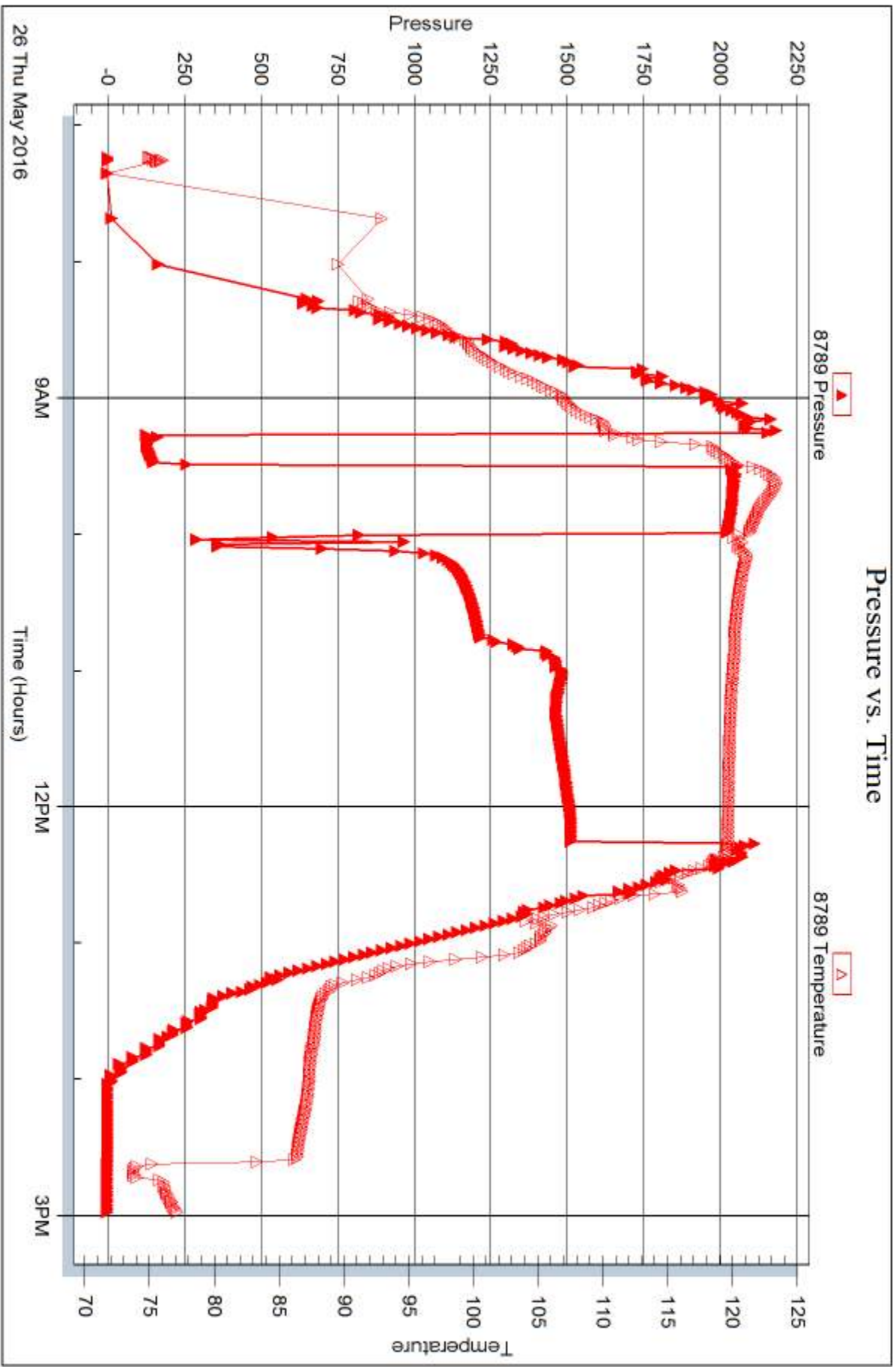
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Stewart Producers Inc**

301 N 27th St Box 546
Mt Vernon IL 62864-0546

ATTN: Dave Goldak

Sutton 2

8 18s 24w Ness

Start Date: 2016.05.26 @ 15:56:00

End Date: 2016.05.27 @ 00:20:00

Job Ticket #: 64927 DST #: 2

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

Printed: 2016.05.27 @ 10:48:54



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DRILL STEM TEST REPORT

Stewart Producers Inc
 301 N 27th St Box 546
 Mt Vernon IL 62864-0546
 ATTN: Dave Goldak

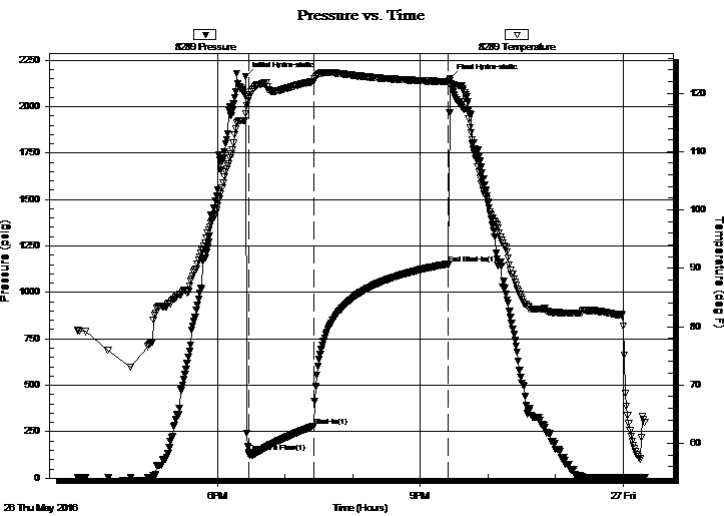
8 18s 24w Ness
Sutton 2
 Job Ticket: 64927 **DST#: 2**
 Test Start: 2016.05.26 @ 15:56:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:27:45
 Time Test Ended: 00:20:00
 Interval: **4292.00 ft (KB) To 4347.00 ft (KB) (TVD)**
 Total Depth: 4347.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 2332.00 ft (KB)
 2325.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8289 Outside
 Press@RunDepth: 279.34 psig @ 4293.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.05.26 End Date: 2016.05.27 Last Calib.: 2016.05.27
 Start Time: 15:56:02 End Time: 00:20:00 Time On Btm: 2016.05.26 @ 18:25:15
 Time Off Btm: 2016.05.26 @ 21:26:30

TEST COMMENT: 60-IFP- BOB in 3 1/2 min.
 120-ISIP- Surface Blow in 2 min. Died in 12 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2161.54	116.47	Initial Hydro-static
3	137.57	119.07	Open To Flow (1)
60	279.34	122.00	Shut-In(1)
180	1153.69	121.95	End Shut-In(1)
182	2149.97	122.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOSM 10%g 2%o 88%m	0.30
713.00	GCO 10%g 90%o	9.46

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC**

DRILL STEM TEST REPORT

Stewart Producers Inc
301 N 27th St Box 546
Mt Vernon IL 62864-0546
ATTN: Dave Goldak

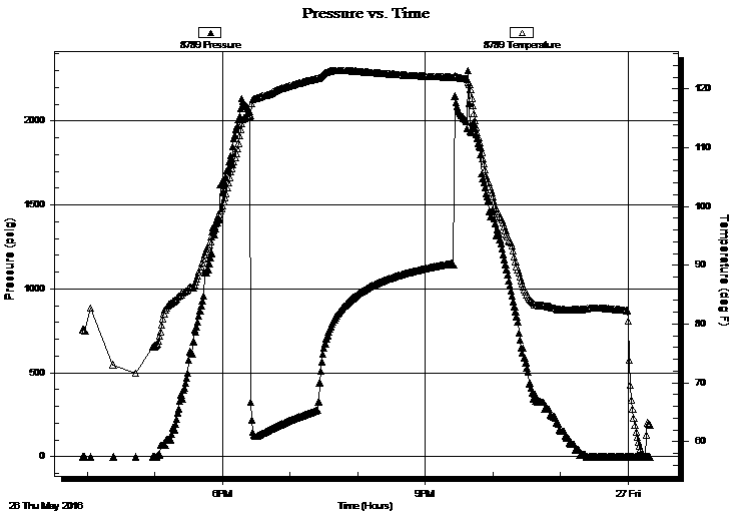
8 18s 24w Ness
Sutton 2
Job Ticket: 64927 **DST#: 2**
Test Start: 2016.05.26 @ 15:56:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 18:27:45 Tester: Jim Svaty
Time Test Ended: 00:20:00 Unit No: 76
Interval: 4292.00 ft (KB) To 4347.00 ft (KB) (TVD) Reference Elevations: 2332.00 ft (KB)
Total Depth: 4347.00 ft (KB) (TVD) 2325.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8789 Inside
Press@RunDepth: psig @ 4293.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.05.26 End Date: 2016.05.27 Last Calib.: 2016.05.27
Start Time: 15:56:02 End Time: 00:19:45 Time On Btm:
Time Off Btm:

TEST COMMENT: 60-IFP- BOB in 3 1/2 min.
120-ISIP- Surface Blow in 2 min. Died in 12 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOSM 10%g 2%o 88%m	0.30
713.00	GCO 10%g 90%o	9.46

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stewart Producers Inc

8 18s 24w Ness

301 N 27th St Box 546
Mt Vernon IL 62864-0546

Sutton 2

Job Ticket: 64927

DST#: 2

ATTN: Dave Goldak

Test Start: 2016.05.26 @ 15:56:00

Tool Information

Drill Pipe:	Length: 4169.00 ft	Diameter: 3.80 inches	Volume: 58.48 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 59.08 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4292.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	83.00 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			4265.00	
Shut In Tool	5.00			4270.00	
Hydraulic tool	5.00			4275.00	
Jars	5.00			4280.00	
Safety Joint	2.00			4282.00	
Packer	5.00			4287.00	28.00 Bottom Of Top Packer
Packer	5.00			4292.00	
Stubb	1.00			4293.00	
Recorder	0.00	8789	Inside	4293.00	
Recorder	0.00	8289	Outside	4293.00	
Perforations	18.00			4311.00	
Change Over Sub	1.00			4312.00	
Blank Spacing	31.00			4343.00	
Change Over Sub	1.00			4344.00	
Bullnose	3.00			4347.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stewart Producers Inc

8 18s 24w Ness

301 N 27th St Box 546
Mt Vernon IL 62864-0546

Sutton 2

Job Ticket: 64927

DST#: 2

ATTN: Dave Goldak

Test Start: 2016.05.26 @ 15:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOSM 10%g 2%o 88%m	0.305
713.00	GCO 10%g 90%o	9.464

Total Length: 775.00 ft

Total Volume: 9.769 bbl

Num Fluid Samples: 0

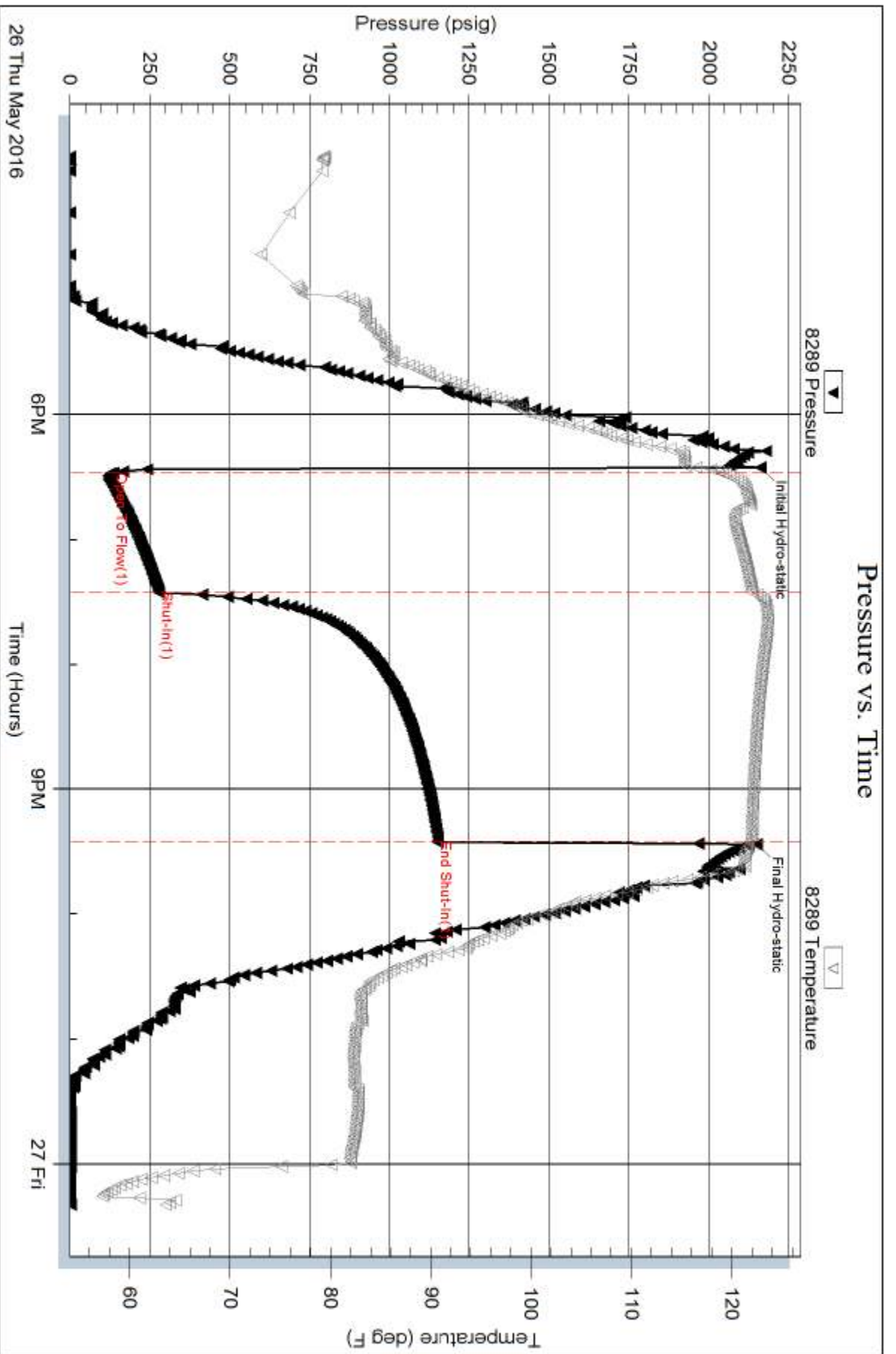
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



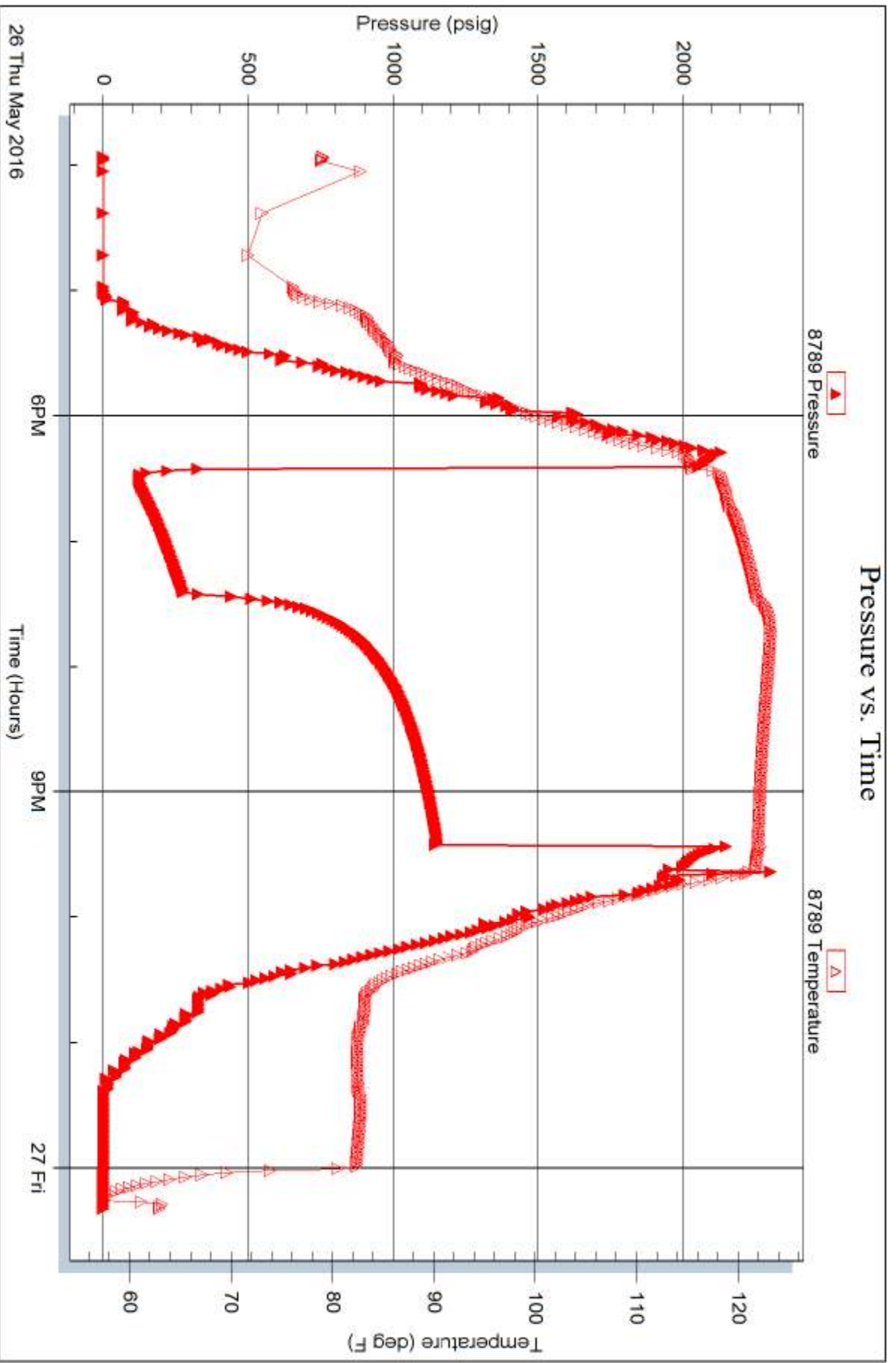
Serial #: 8789

Inside

Stewart Producers Inc

Sutton 2

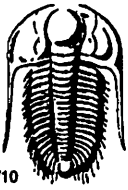
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64927

Printed: 2016.05.27 @ 10:48:56



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64926

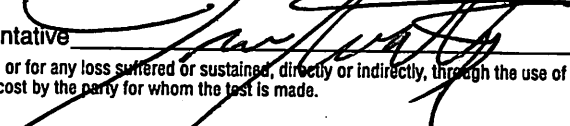
Well Name & No. Sutton #2 Test No. 1 Date 5-26-16
 Company Stewart Producers, Inc. Elevation 2332 KB 2325 GL
 Address 301 N. 27th St, Box 546 Mt. Vernon IL, 62864-0546
 Co. Rep / Geo. Dave Goldak Rig WW 12
 Location: Sec. 8 Twp. 18 S Rge. 24 W Co. Ness State KS

Interval Tested 4307-4347 Zone Tested Miss.
 Anchor Length 40 Drill Pipe Run 4169 Mud Wt. 9.1
 Top Packer Depth 4302 Drill Collars Run 121 Vis 49
 Bottom Packer Depth 4307 Wt. Pipe Run 0 WL 8.8
 Total Depth 4347 Chlorides 5500 ppm System LCM TR
 Blow Description IF - BOB in 3min.
ISIP - Surface Blow Building to 2in. IN 10min.
FF - BOB in 1 1/2 min. Died Back to 8in.
FSI - No Blow

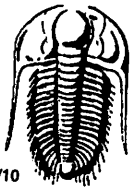
Rec	Feet of	%gas	%oil	%water	%mud
<u>438</u>	<u>0.5m</u>	<u>1</u>		<u>99</u>	
<u>267</u>	<u>MCO</u>	<u>75</u>		<u>25</u>	
Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>CO</u>				
Rec	Feet of	%gas	%oil	%water	%mud
	<u>250 ISIP</u>				

Rec Total 750 BHT Gravity 35 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2154</u>	<input checked="" type="checkbox"/> Test <u>950</u>	T-On Location <u>06:45</u>
(B) First Initial Flow <u>139</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>07:14</u>
(C) First Final Flow <u>208</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>09:15</u>
(D) Initial Shut-In <u>2023</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>12:15</u>
(E) Second Initial Flow <u>366</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>14:59</u>
(F) Second Final Flow <u>1217</u>	<input checked="" type="checkbox"/> Mileage <u>126 RT</u> 94.50	Comments _____
(G) Final Shut-In <u>1511</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2120</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1369.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1369.50</u>	

Approved By _____ Our Representative 

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 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. 64927

Well Name & No. Sutton #2 Test No. 2 Date 5-26-16
 Company Stewart Producers, Inc. Elevation 2333 KB 2325 GL
 Address 301 N 27th St, Box 546 Mt. Vernon IL 62864-0546
 Co. Rep / Geo. Dave Goldak Rig WW12
 Location: Sec. 8 Twp. 18S Rge. 24W Co. Ness State KS

Interval Tested 4292 - 4347 Zone Tested miss.
 Anchor Length 55 Drill Pipe Run 4169 Mud Wt. 9.1
 Top Packer Depth 4287 Drill Collars Run 121 Vis 49
 Bottom Packer Depth 4292 Wt. Pipe Run 0 WL 8.8
 Total Depth 4347 Chlorides 5500 ppm System LCM TR
 Blow Description IFP - BOB 3 1/2 min.
ISIP - Surface Blow in 2 min. Died in 12 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>205M</u>	<u>10</u>	<u>2</u>	<u>88</u>	
<u>713</u>	<u>200</u>	<u>10</u>	<u>90</u>		
	<u>170 DIP</u>				

Rec Total 770 BHT 122 Gravity 35 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2161</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>06:45</u>
(B) First Initial Flow <u>137</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>15:56</u>
(C) First Final Flow <u>279</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:25</u>
(D) Initial Shut-In <u>1153</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>21:25</u>
(E) Second Initial Flow _____	<input type="checkbox"/> Hourly Standby _____	T-Out <u>00:20</u>
(F) Second Final Flow _____	<input type="checkbox"/> Mileage <u>126 RT</u>	Comments _____
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2149</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>60</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>120</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>pulled</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	Total <u>1725</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1725</u>	

Approved By _____ Our Representative [Signature]
 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.