



DRILL STEM TEST REPORT

Prepared For: **Stewart Producers, Inc.**

PO Box 546
Mt. Vernon, IL 62864

ATTN: Mark Thompson/Robert

Sutton #1

8-18s-24w Ness, KS

Start Date: 2015.06.18 @ 20:54:00

End Date: 2015.06.19 @ 05:56:40

Job Ticket #: 62473 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.06.20 @ 11:44:04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Stewart Producers, Inc.

8-18s-24w Ness, KS

PO Box 546
Mt. Vernon, IL 62864

Sutton #1

Job Ticket: 62473

DST#: 1

ATTN: Mark Thompson/Robert

Test Start: 2015.06.18 @ 20:54:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:15:20

Time Test Ended: 05:56:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Phillip Gage

Unit No: 77

Interval: 4315.00 ft (KB) To 4335.00 ft (KB) (TVD)

Reference Elevations: 2323.00 ft (KB)

Total Depth: 4335.00 ft (KB) (TVD)

2318.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8898 Outside

Press@RunDepth: 367.04 psig @ 4316.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.18

End Date:

2015.06.19

Last Calib.:

2015.06.19

Start Time: 20:54:01

End Time:

05:56:40

Time On Btm:

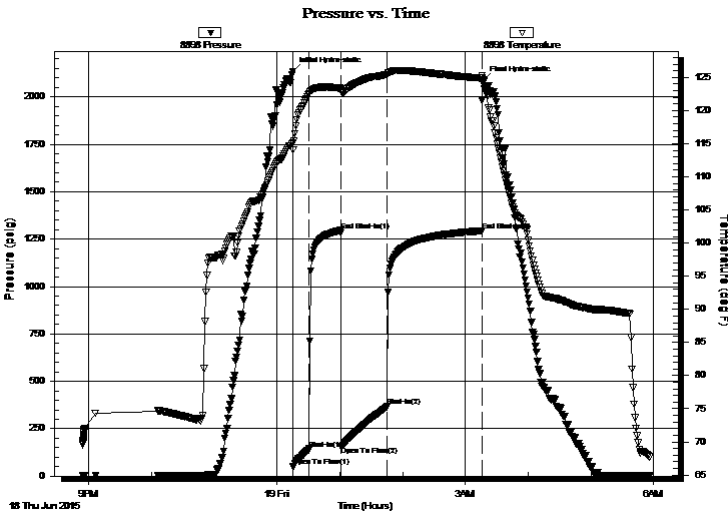
2015.06.19 @ 00:15:10

Time Off Btm:

2015.06.19 @ 03:17:09

TEST COMMENT: 15-IF-BOB in 5 min.
30-ISI-5" Return, died back to 4 1/2"
45-FF-BOB in 7 min.
90-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.43	115.11	Initial Hydro-static
1	49.87	114.05	Open To Flow (1)
16	144.24	122.52	Shut-In(1)
46	1295.78	123.34	End Shut-In(1)
47	156.47	122.93	Open To Flow (2)
90	367.04	125.40	Shut-In(2)
181	1293.46	124.87	End Shut-In(2)
182	2082.96	124.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	VSWGOCM, 2%w, 18%g, 30%o, 50%m	0.31
110.00	GOCM, 20%g, 30%o, 50%m	1.04
456.00	VSMGCO, 5%m, 40%g, 55%o	6.40
335.00	VSMGCO, 5%m, 30%g, 65%o	4.70
0.00	252' GIP	0.00

Gas Rates

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

Stewart Producers, Inc.

8-18s-24w Ness, KS

PO Box 546
Mt. Vernon, IL 62864

Sutton #1

Job Ticket: 62473

DST#: 1

ATTN: Mark Thompson/Robert

Test Start: 2015.06.18 @ 20:54:00

Tool Information

Drill Pipe:	Length: 4185.00 ft	Diameter: 3.80 inches	Volume: 58.70 bbl	Tool Weight: 2000.00 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: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 59.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4315.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	40.00 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			4296.00	
Shut In Tool	5.00			4301.00	
Hydraulic tool	5.00			4306.00	
Packer	5.00			4311.00	20.00 Bottom Of Top Packer
Packer	4.00			4315.00	
Stubb	1.00			4316.00	
Recorder	0.00	8897	Inside	4316.00	
Recorder	0.00	8898	Outside	4316.00	
Perforations	16.00			4332.00	
Bullnose	3.00			4335.00	20.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



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FLUID SUMMARY

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8-18s-24w Ness, KS

PO Box 546
Mt. Vernon, IL 62864

Sutton #1

Job Ticket: 62473

DST#: 1

ATTN: Mark Thompson/Robert

Test Start: 2015.06.18 @ 20:54:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 86.00 sec/qt
Water Loss: 11.18 in³
Resistivity: ohm.m
Salinity: 5200.00 ppm
Filter Cake: 0.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 38 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

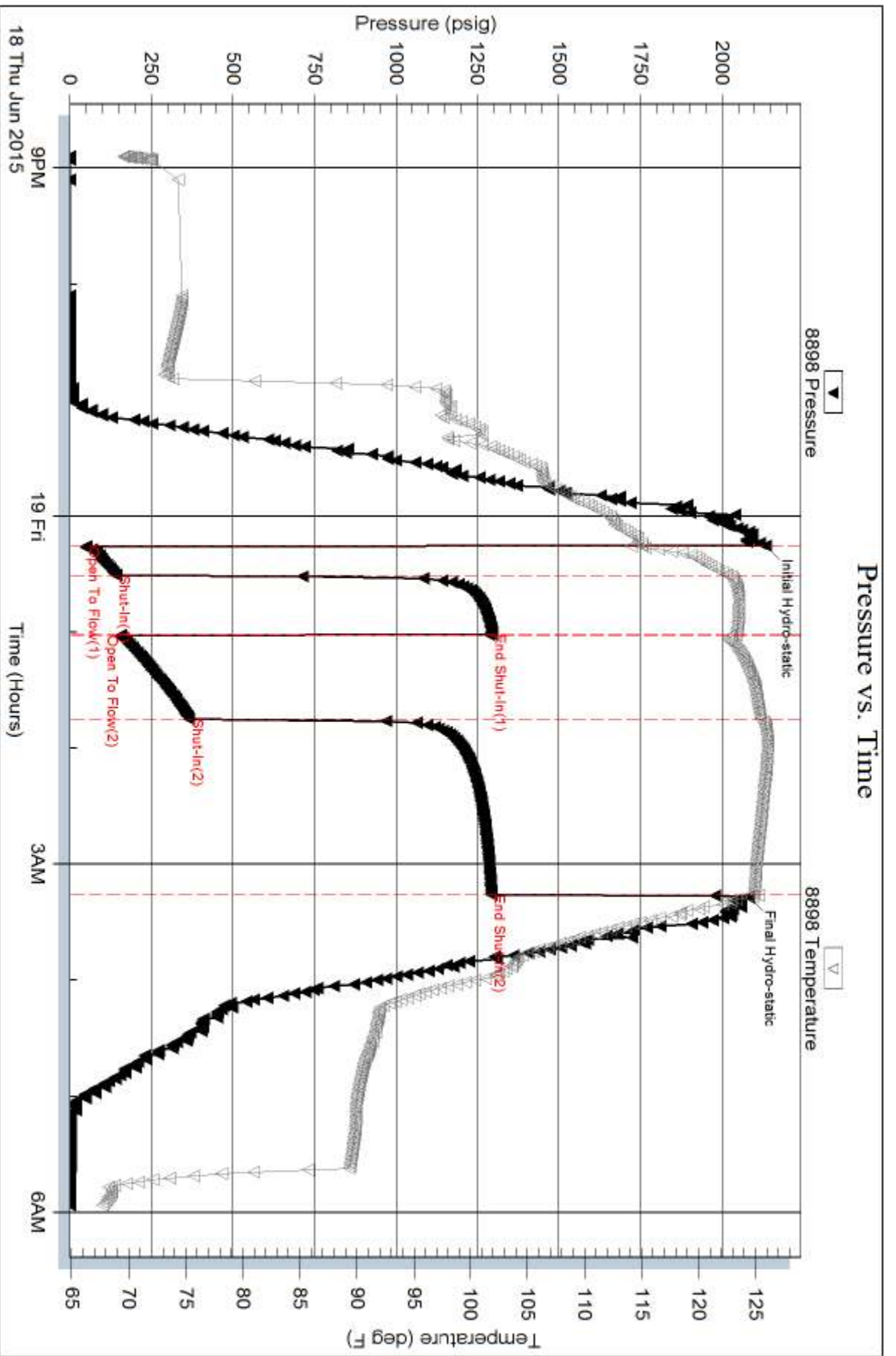
Length ft	Description	Volume bbl
63.00	VSWGOCM, 2%w, 18%g, 30%o, 50% m	0.310
110.00	GOCM, 20%g, 30%o, 50%m	1.042
456.00	VSMGCO, 5%m, 40%g, 55%o	6.396
335.00	VSMGCO, 5%m, 30%g, 65%o	4.699
0.00	252' GIP	0.000

Total Length: 964.00 ft Total Volume: 12.447 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62473

Well Name & No. Sutton Test No. 1 Date 6-18-15
 Company Stewart Producers, Inc. Elevation 2323 KB 2318 GL
 Address 301 N 27th St, P.O. Box 546 Mt. Vernon, IL 62864
 Co. Rep / Geo. Mark Thompson / Robert Stewart Rig WW10
 Location: Sec. 8 Twp. 18S Rge. 24W Co. Ness State KS

Interval Tested 4315 - 4335 Zone Tested Miss
 Anchor Length 20' Drill Pipe Run 4185 Mud Wt. 9.4
 Top Packer Depth 4310 Drill Collars Run 118' Vis 86
 Bottom Packer Depth 4315 Wt. Pipe Run 0 WL 11.2
 Total Depth 4335 Chlorides 5200 ppm System LCM 0

Blow Description IF- BOB in 5 min.
ISI 5" Return, died back to 4 1/2"
FF- BOB in 7 min.
FSE No Return

Rec	Feet of	%gas	%oil	%water	%mud
63'	USW GOCM	18	30	2	50
110'	GOCM	20	30		50
456'	VSM GCO	40	55		5
335'	VSM GCO	30	65		5
0	GIP-252'	100			
Rec Total	964'	BHT 125	Gravity 38	API RW @	F Chlorides

(A) Initial Hydrostatic 2,134 Test 1150 T-On Location 20:53
 (B) First Initial Flow 49 Jars T-Started 20:54
 (C) First Final Flow 144 Safety Joint T-Open 00:16
 (D) Initial Shut-In 1,295 Circ Sub T-Pulled 03:16
 (E) Second Initial Flow 156 Hourly Standby T-Out 05:57
 (F) Second Final Flow 367 Mileage 144 RT x2 Comments Loaded Tools
 (G) Final Shut-In 1,293 Sampler 216 on 6-19-15 at 15:00
 (H) Final Hydrostatic 2,082 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Initial Open 15 Extra Packer Extra Copies
 Initial Shut-In 30 Extra Recorder Sub Total 0
 Final Flow 45 Day Standby Total 1366
 Final Shut-In 90 Accessibility MP/DST Disc't
 Sub Total 1366

Approved By _____ Our Representative Phillip Long Thank You.

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