

15-057-20733

13-29s-25w



DRILL STEM TEST REPORT

Prepared For: **S & W Oil & Gas LLC**

3540 W.Douglas , Ste.3
Wichita KS 67203

ATTN: Pat Deenihan

13-29s-25w Ford KS

North Minneola #1

Start Date: 2011.07.04 @ 09:58:46

End Date: 2011.07.04 @ 18:47:31

Job Ticket #: 042509 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

RECEIVED
MAR 21 2012
KCC WICHITA



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

S & W Oil & Gas LLC

3540 W. Douglas, Ste. 3
Wichita KS 67203

ATTN: Pat Deenihan

North Minneola #1

13-29s-25w Ford KS

Job Ticket: 042509

DST#: 1

Test Start: 2011.07.04 @ 09:58:46

GENERAL INFORMATION:

Formation: **Morrow Sd.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:48:01

Time Test Ended: 18:47:31

Test Type: Conventional Bottom Hole

Tester: Gary Pavoteaux

Unit No: 56

Interval: **5289.00 ft (KB) To 5331.00 ft (KB) (TVD)**

Total Depth: 5331.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2633.00 ft (KB)

2624.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **8167**

Inside

Press@RunDepth: 29.49 psig @ 5290.00 ft (KB)

Start Date: 2011.07.04

End Date:

2011.07.04

Start Time: 09:58:51

End Time:

18:47:31

Capacity: 8000.00 psig

Last Calib.: 2011.07.04

Time On Btm: 2011.07.04 @ 12:46:16

Time Off Btm: 2011.07.04 @ 15:24:31

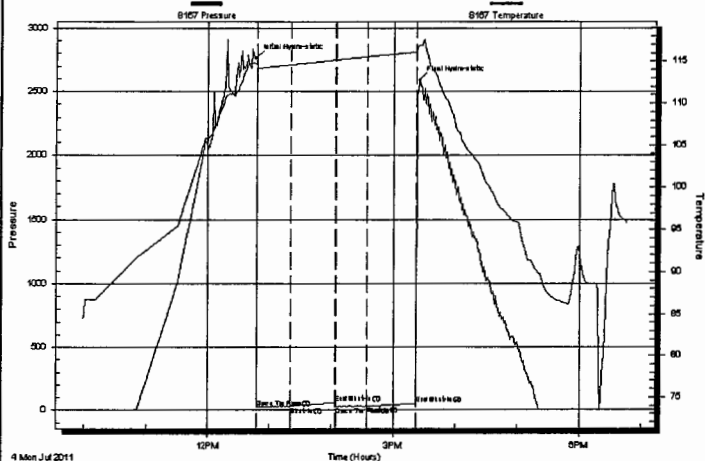
TEST COMMENT: IF: Weak blow . 1/2 - 1 1/2".

IS: No blow.

FF: Weak blow . 1/4".

FS: No blow.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2763.31	114.73	Initial Hydro-static
2	21.18	114.09	Open To Flow (1)
34	28.46	114.55	Shut-In (1)
78	57.40	115.14	End Shut-In (1)
78	24.68	115.14	Open To Flow (2)
108	29.49	115.53	Shut-In (2)
156	49.70	116.07	End Shut-In (2)
159	2588.65	116.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Drig. mud (Gassy odor)	0.39

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

S & W Oil & Gas LLC

North Minneola #1

3540 W. Douglas, Ste. 3
Wichita KS 67203

13-29s-25w Ford KS

Job Ticket: 042509

DST#: 1

ATTN: Pat Deenihan

Test Start: 2011.07.04 @ 09:58:46

Tool Information

Drill Pipe:	Length: 5071.00 ft	Diameter: 3.80 inches	Volume: 71.13 bbl	Tool Weight:	2400.00 lb		
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb		
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose:	78000.00 lb		
			Total Volume:	72.16 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	51000.00 lb	Final	53500.00 lb
Depth to Top Packer:	5289.00 ft						
Depth to Bottom Packer:	ft						
Interval between Packers:	42.00 ft						
Tool Length:	70.00 ft						
Number of Packers:	2	Diameter:	6.75 inches				
Tool Comments:							

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5262.00	
Shut in tool	5.00			5267.00	
HMV	5.00			5272.00	
Jars	5.00			5277.00	
Safety Joint	3.00			5280.00	
Packer	4.00			5284.00	28.00 Bottom Of Top Packer
Packer	5.00			5289.00	
Stubb	1.00			5290.00	
Recorder	0.00	8167	Inside	5290.00	
Recorder	0.00	8370	Outside	5290.00	
Perforations	36.00			5326.00	
Bullnose	5.00			5331.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

S & W Oil & Gas LLC

North Minneola #1

3540 W.Douglas , Ste.3
Wichita KS 67203

13-29s-25w Ford KS

Job Ticket: 042509

DST#: 1

ATTN: Pat Deenihan

Test Start: 2011.07.04 @ 09:58:46

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:

7400 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	Drig.mud (Gassy odor)	0.393

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8167

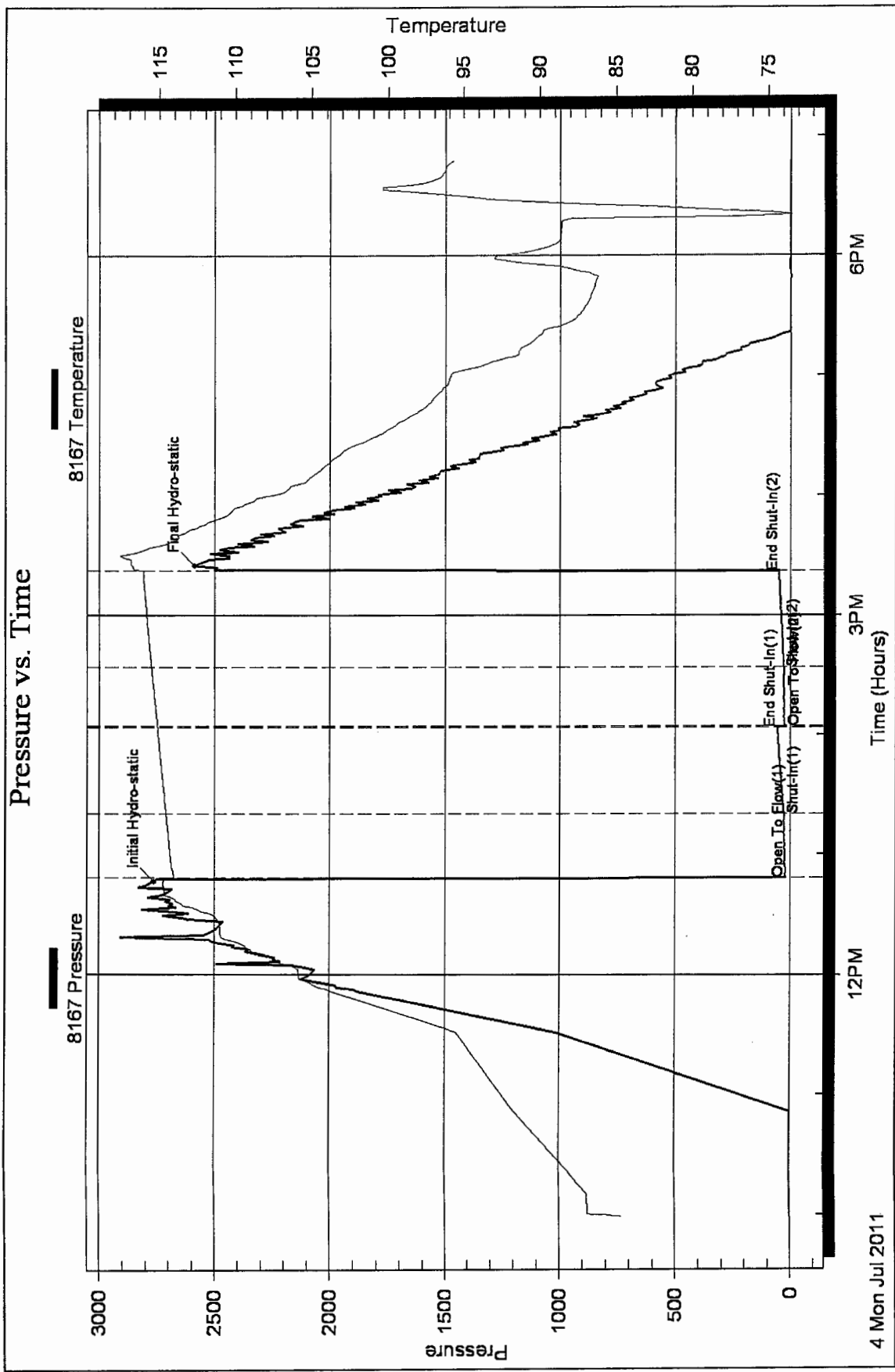
Inside

S & W Oil & Gas LLC

13-29s-25w Ford KS

DST Test Number: 1

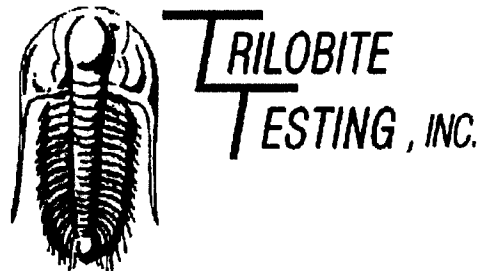
Pressure vs. Time



Ref. No: 042509

Trilobite Testing, Inc

Printed: 2011.07.11 @ 16:18:58 Page 5



DRILL STEM TEST REPORT

Prepared For: **S & W Oil & Gas LLC**

3540 W. Douglas , Ste.3
Wichita KS 67203

ATTN: Pat Deenihan

13-29s-25w Ford KS

North Minneola #1

Start Date: 2011.07.06 @ 05:38:44

End Date: 2011.07.06 @ 16:05:44

Job Ticket #: 042510 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

S & W Oil & Gas LLC

3540 W. Douglas, Ste. 3
Wichita KS 67203

ATTN: Pat Deenihan

North Minneola #1

13-29s-25w Ford KS

Job Ticket: 042510

DST#: 2

Test Start: 2011.07.06 @ 05:38:44

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:12:29

Time Test Ended: 16:05:44

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 56

Interval: 5288.00 ft (KB) To 5405.00 ft (KB) (TVD)

Total Depth: 5405.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2633.00 ft (KB)

2624.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8167

Inside

Press@RunDepth: 70.33 psig @ 5289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.07.06

End Date:

2011.07.06

Last Calib.: 2011.07.06

Start Time: 05:38:49

End Time:

16:05:44

Time On Btm: 2011.07.06 @ 09:09:59

Time Off Btm: 2011.07.06 @ 13:12:14

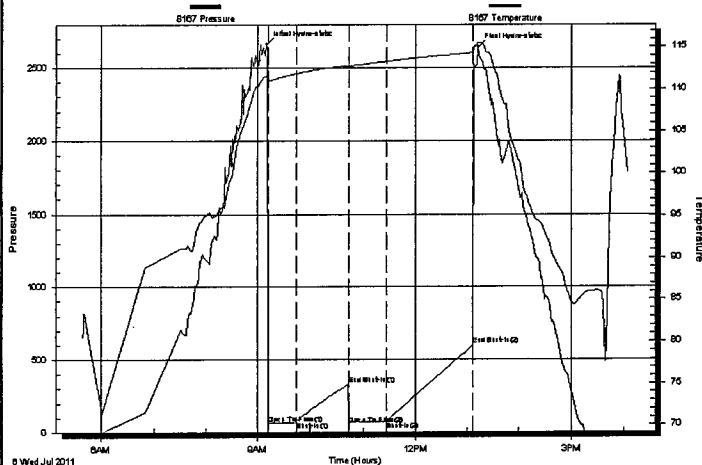
TEST COMMENT: IF: Weak blow . 2 - 3 1/2". Hit solid bridge @ approx. 1500 ft. Also had 4-5 ft. of fill on btm.

ISI: No blow.

FF: Fair blow . 2 - 8 1/2".

FSI: No blow.

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2661.63	111.50	Initial Hydro-static
3	61.12	111.01	Open To Flow (1)
34	70.56	111.85	Shut-In (1)
94	328.38	112.81	End Shut-In (1)
94	50.19	112.76	Open To Flow (2)
137	70.33	113.29	Shut-In (2)
237	596.79	114.35	End Shut-In (2)
243	2641.92	115.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	Drig. mud	0.79
0.00	130 ft. of GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

S & W Oil & Gas LLC

North Minneola #1

3540 W. Douglas, Ste. 3
Wichita KS 67203

13-29s-25w Ford KS

ATTN: Pat Deenihan

Job Ticket: 042510

DST#: 2

Test Start: 2011.07.06 @ 05:38:44

Tool Information

Drill Pipe:	Length: 5195.00 ft	Diameter: 3.80 inches	Volume: 72.87 bbl	Tool Weight:	2400.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb	
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose:	102000.0 lb	
			Total Volume:	73.31 bbl	Tool Chased	4.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	51000.00 lb	
Depth to Top Packer:	5288.00 ft			Final	51000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	117.00 ft					
Tool Length:	145.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5261.00	
Shut in tool	5.00			5266.00	
HMV	5.00			5271.00	
Jars	5.00			5276.00	
Safety Joint	3.00			5279.00	
Packer	4.00			5283.00	28.00 Bottom Of Top Packer
Packer	5.00			5288.00	
Stubb	1.00			5289.00	
Recorder	0.00	8167	Inside	5289.00	
Recorder	0.00	8370	Outside	5289.00	
Perforations	5.00			5294.00	
Blank Spacing	94.00			5388.00	
Perforations	12.00			5400.00	
Bullnose	5.00			5405.00	117.00 Bottom Packers & Anchor
Total Tool Length:		145.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

S & W Oil & Gas LLC

North Minneola #1

3540 W. Douglas, Ste. 3
Wichita KS 67203

13-29s-25w Ford KS

Job Ticket: 042510

DST#: 2

ATTN: Pat Deenihan

Test Start: 2011.07.06 @ 05:38:44

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:

8000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	Drig. mud	0.793
0.00	130 ft. of GIP	0.000

Total Length: 115.00 ft

Total Volume: 0.793 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

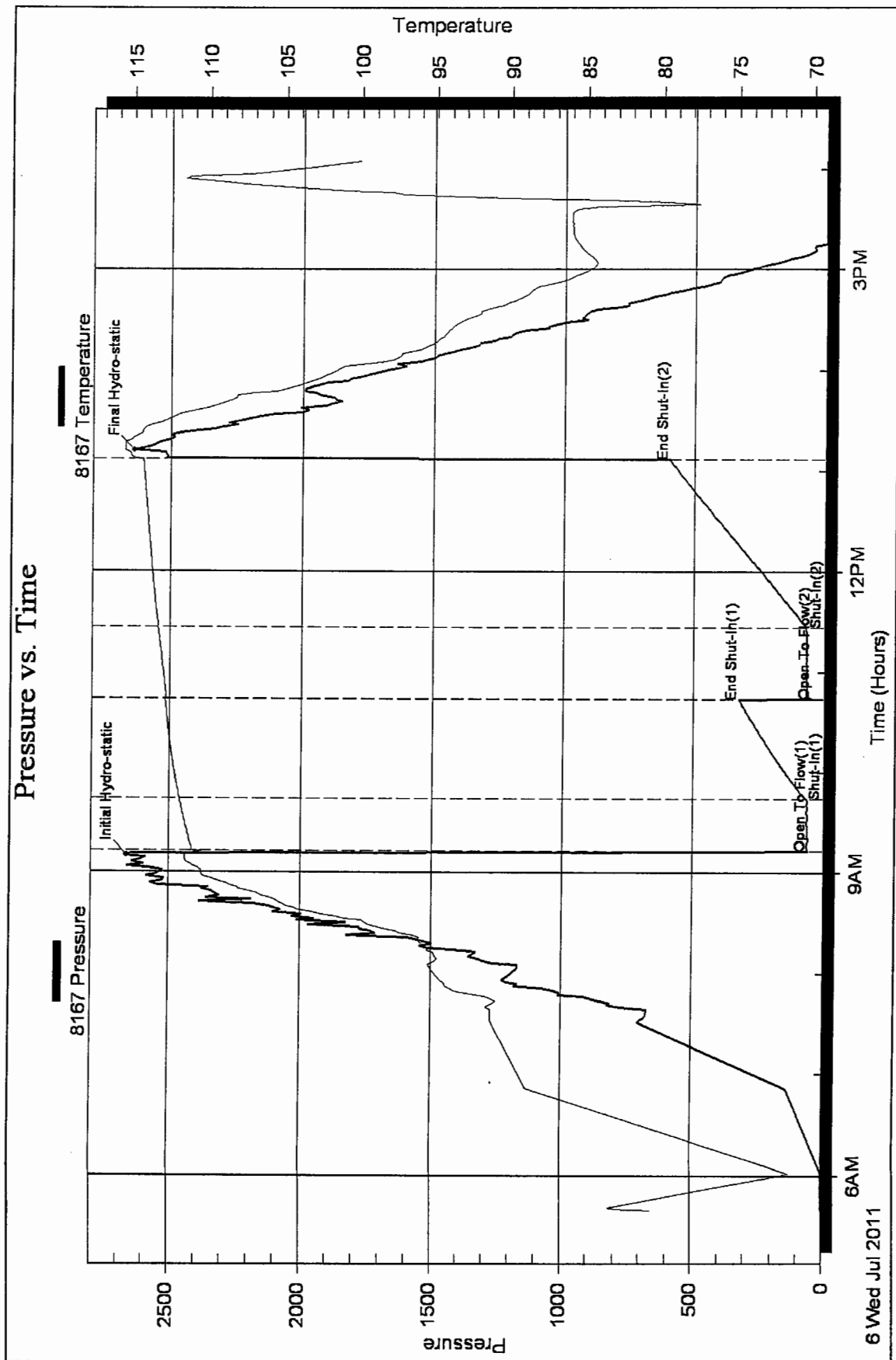
DST Test Number: 2

13-29s-25w Ford KS

Inside S & W Oil & Gas LLC

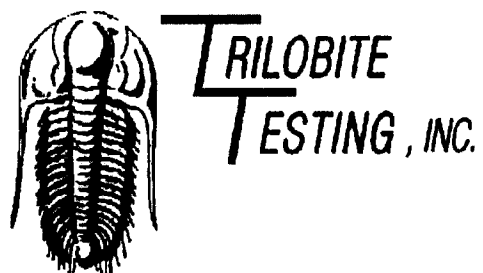
Serial #: 8167

Pressure vs. Time



Ref. No: 042510

Trilobite Testing, Inc



DRILL STEM TEST REPORT

Prepared For: **S & W Oil & Gas LLC**

3540 W. Douglas , Ste.3
Wichita KS 67203

ATTN: Pat Deenihan

13-29s-25w Ford KS

North Minneola #1

Start Date: 2011.07.07 @ 12:14:46

End Date: 2011.07.07 @ 19:54:01

Job Ticket #: 042511 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

S & W Oil & Gas LLC

3540 W. Douglas, Ste. 3
Wichita KS 67203

ATTN: Pat Deenihan

North Minneola #1

13-29s-25w Ford KS

Job Ticket: 042511

DST#: 3

Test Start: 2011.07.07 @ 12:14:46

GENERAL INFORMATION:

Formation: Miss.

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:27:31

Time Test Ended: 19:54:01

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 56

Interval: 5381.00 ft (KB) To 5424.00 ft (KB) (TVD)

Total Depth: 5424.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2633.00 ft (KB)

2624.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8167

Inside

Press@RunDepth: 57.33 psig @ 5382.00 ft (KB)

Start Date: 2011.07.07 End Date: 2011.07.07

Start Time: 12:14:51 End Time: 19:54:00

Capacity: 8000.00 psig

Last Calib.: 2011.07.07

Time On Btm: 2011.07.07 @ 14:25:46

Time Off Btm: 2011.07.07 @ 16:47:31

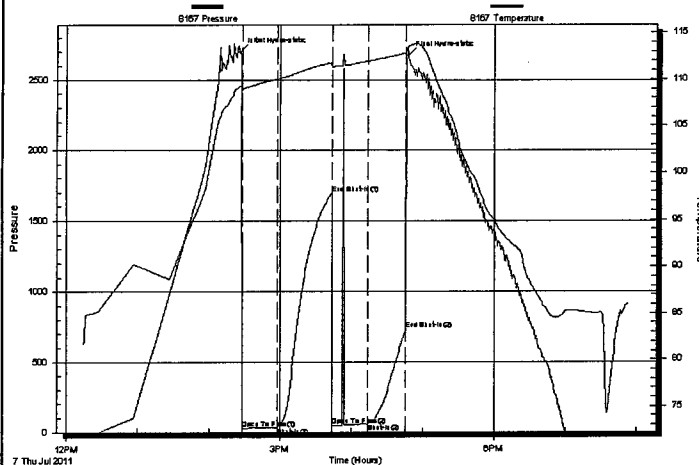
TEST COMMENT: IF: Weak blow. 1/4" or less.

IS: No blow.

FF: No blow. Flushed tool 13 mins. in to FFP. No blow.

FSI: No blow.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2700.80	109.31	Initial Hydro-static
2	26.07	108.84	Open To Flow (1)
32	34.33	110.01	Shut-In(1)
78	1691.67	111.78	End Shut-In(1)
79	46.48	111.37	Open To Flow (2)
108	57.33	111.94	Shut-In(2)
140	725.95	112.81	End Shut-In(2)
142	2672.36	113.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	Drig. mud (good odor)	0.42

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

S & W Oil & Gas LLC

North Minneola #1

3540 W. Douglas, Ste. 3
Wichita KS 67203

13-29s-25w Ford KS

ATTN: Pat Deenihan

Job Ticket: 042511

DST#: 3

Test Start: 2011.07.07 @ 12:14:46

Tool Information

Drill Pipe:	Length: 5290.00 ft	Diameter: 3.80 inches	Volume: 74.20 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose:	73000.00 lb
		Total Volume:	74.64 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	5381.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5354.00	
Shut in tool	5.00			5359.00	
HMV	5.00			5364.00	
Jars	5.00			5369.00	
Safety Joint	3.00			5372.00	
Packer	4.00			5376.00	28.00 Bottom Of Top Packer
Packer	5.00			5381.00	
Stubb	1.00			5382.00	
Recorder	0.00	8167	Inside	5382.00	
Recorder	0.00	8370	Outside	5382.00	
Perforations	37.00			5419.00	
Bullnose	5.00			5424.00	43.00 Bottom Packers & Anchor

Total Tool Length: 71.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

S & W Oil & Gas LLC

North Minneola #1

3540 W. Douglas, Ste. 3
Wichita KS 67203

13-29s-25w Ford KS

Job Ticket: 042511

DST#: 3

ATTN: Pat Deenihan

Test Start: 2011.07.07 @ 12:14:46

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:

7000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	Drig.mud (good odor)	0.418

Total Length: 85.00 ft

Total Volume: 0.418 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

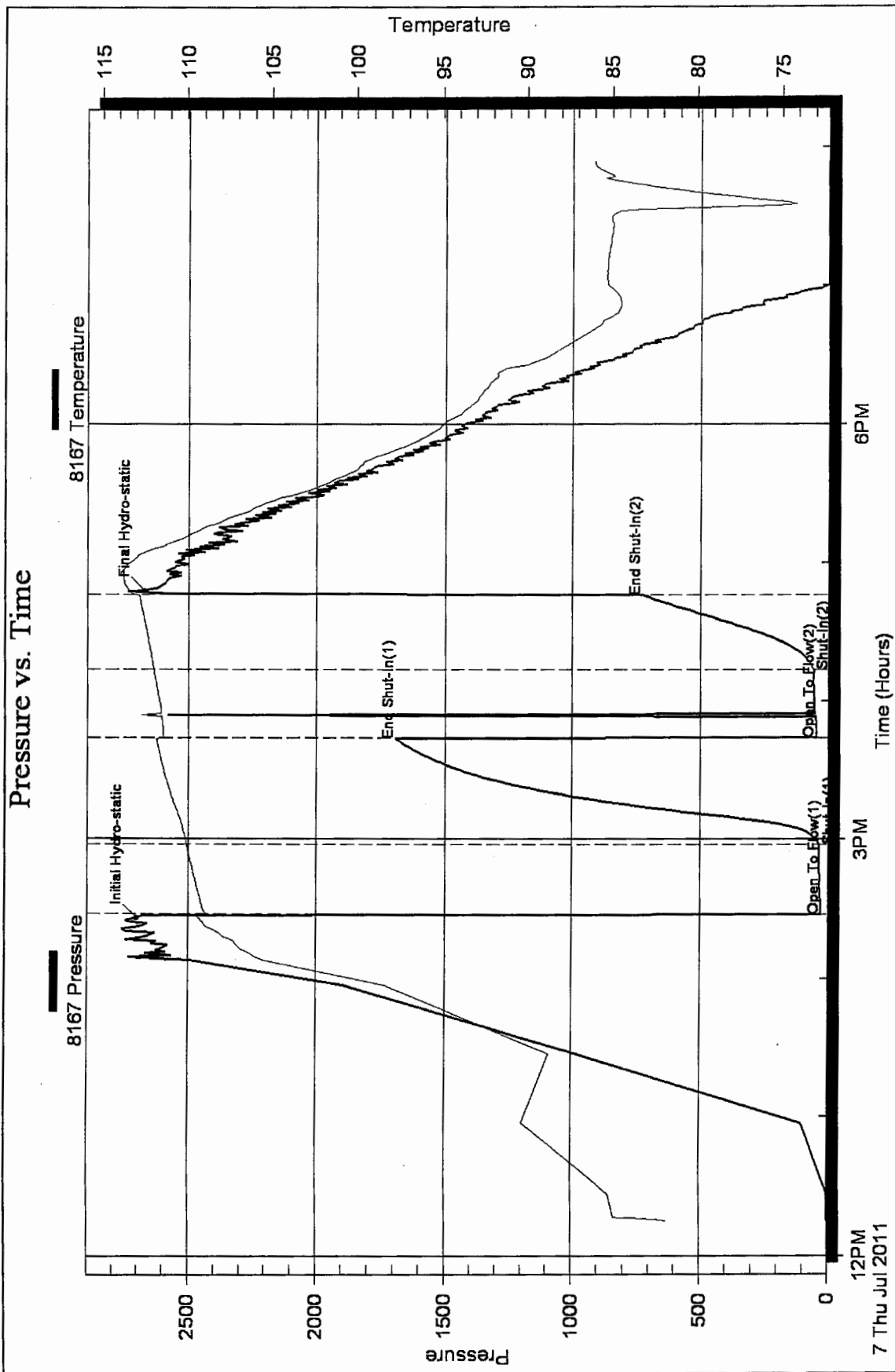
Serial #: 8167

Inside S & W Oil & Gas LLC

13-29s-25w Ford KS

DST Test Number: 3

Pressure vs. Time



Ref. No: 042511

Trilobite Testing, Inc

Printed: 2011.07.11 @ 16:20:08 Page 5