



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, K S 67530

ATTN: Pat Deenihan

WP Unit #1-7

7-14S-25W Trego,KS

Start Date: 2016.06.12 @ 08:08:59

End Date: 2016.06.12 @ 15:12:29

Job Ticket #: 58087 DST #: 1

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

Printed: 2016.06.16 @ 08:55:44

Carmen Schmitt, Inc.
7-14S-25W Trego,KS
WP Unit #1-7
DST # 1
LKC "H"
2016.06.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, K S 67530
ATTN: Pat Deenihan

7-14S-25W Trego,KS
WP Unit #1-7
Job Ticket: 58087 **DST#: 1**
Test Start: 2016.06.12 @ 08:08:59

GENERAL INFORMATION:

Formation: **LKC "H"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:29:59
Time Test Ended: 15:12:29
Interval: **3858.00 ft (KB) To 3890.00 ft (KB) (TVD)**
Total Depth: 3890.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Brannan Lonsdale
Unit No: 73
Reference Elevations: 2439.00 ft (KB)
2434.00 ft (CF)
KB to GR/CF: 5.00 ft

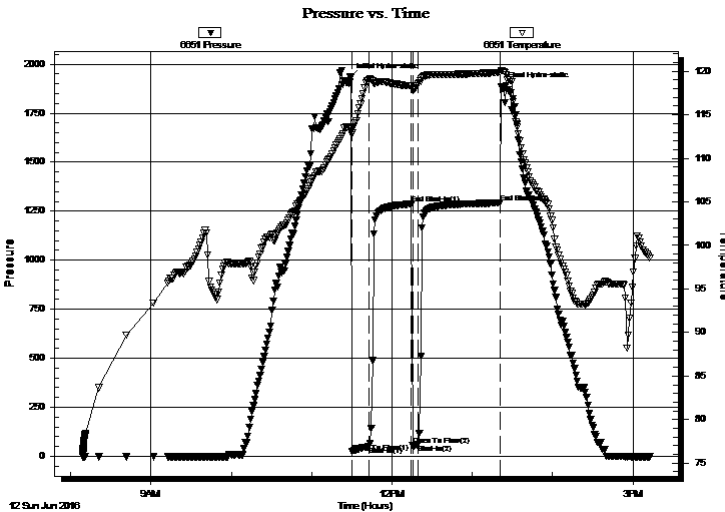
Serial #: 6651

Inside

Press@RunDepth: 61.48 psig @ 3887.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.06.12 End Date: 2016.06.12 Last Calib.: 2016.06.12
Start Time: 08:09:00 End Time: 15:12:29 Time On Btm: 2016.06.12 @ 11:28:59
Time Off Btm: 2016.06.12 @ 13:21:29

TEST COMMENT: 15- IF- BOB 7mins
30- IS- Surface blow died in 6mins
05- FF- BOB 5mins
60- FS- Surface blow died in 37mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1934.12	113.42	Initial Hydro-static
1	22.75	112.72	Open To Flow (1)
14	49.97	119.00	Shut-In(1)
46	1287.27	118.32	End Shut-In(1)
47	53.82	118.01	Open To Flow (2)
51	61.48	118.61	Shut-In(2)
112	1292.21	119.85	End Shut-In(2)
113	1887.15	120.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
143.00	HMCO, 30%M 70%O	1.76
0.00	55' GIP	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, K S 67530
 ATTN: Pat Deenihan

7-14S-25W Trego,KS

WP Unit #1-7

Job Ticket: 58087

DST#: 1

Test Start: 2016.06.12 @ 08:08:59

GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:29:59

Time Test Ended: 15:12:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3858.00 ft (KB) To 3890.00 ft (KB) (TVD)

Reference Elevations: 2439.00 ft (KB)

Total Depth: 3890.00 ft (KB) (TVD)

2434.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6839

Outside

Press@RunDepth: psig @ 3887.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.06.12

End Date:

2016.06.12

Last Calib.:

2016.06.12

Start Time: 08:08:41

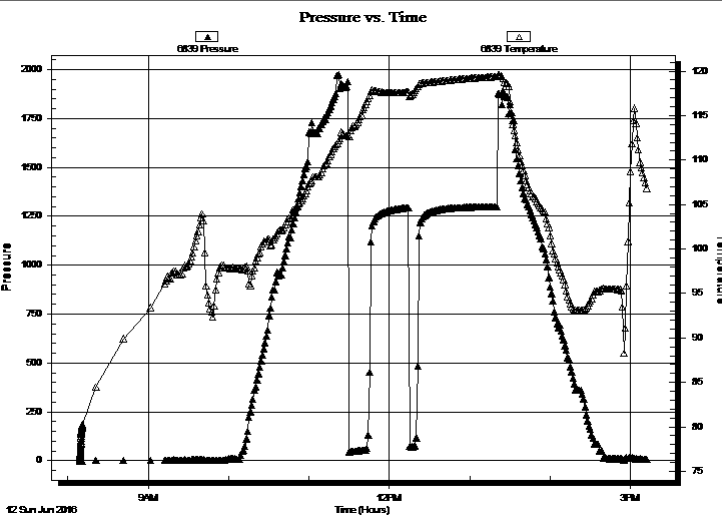
End Time:

15:12:10

Time On Btm:

Time Off Btm:

TEST COMMENT: 15- IF- BOB 7mins
 30- IS- Surface blow died in 6mins
 05- FF- BOB 5mins
 60- FS- Surface blow died in 37mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
143.00	HMCO, 30%M 70%O	1.76
0.00	55' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

7-14S-25W Trego,KS

PO Box 47
Great Bend, K S 67530

WP Unit #1-7

Job Ticket: 58087

DST#: 1

ATTN: Pat Deenihan

Test Start: 2016.06.12 @ 08:08:59

Tool Information

Drill Pipe:	Length: 3834.00 ft	Diameter: 3.82 inches	Volume: 54.35 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3858.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	54.00 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			3837.00	
Shut In Tool	5.00			3842.00	
Hydraulic tool	5.00			3847.00	
Safety Joint	2.00			3849.00	
Packer	5.00			3854.00	22.00 Bottom Of Top Packer
Packer	4.00			3858.00	
Stubb	1.00			3859.00	
Perforations	28.00			3887.00	
Recorder	0.00	6651	Inside	3887.00	
Recorder	0.00	6839	Outside	3887.00	
Bullnose	3.00			3890.00	32.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

7-14S-25W Trego, KS

PO Box 47
Great Bend, K S 67530

WP Unit #1-7

Job Ticket: 58087

DST#: 1

ATTN: Pat Deenihan

Test Start: 2016.06.12 @ 08:08:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
143.00	HMCO, 30%M 70%O	1.759
0.00	55' GIP	0.000

Total Length: 143.00 ft

Total Volume: 1.759 bbl

Num Fluid Samples: 0

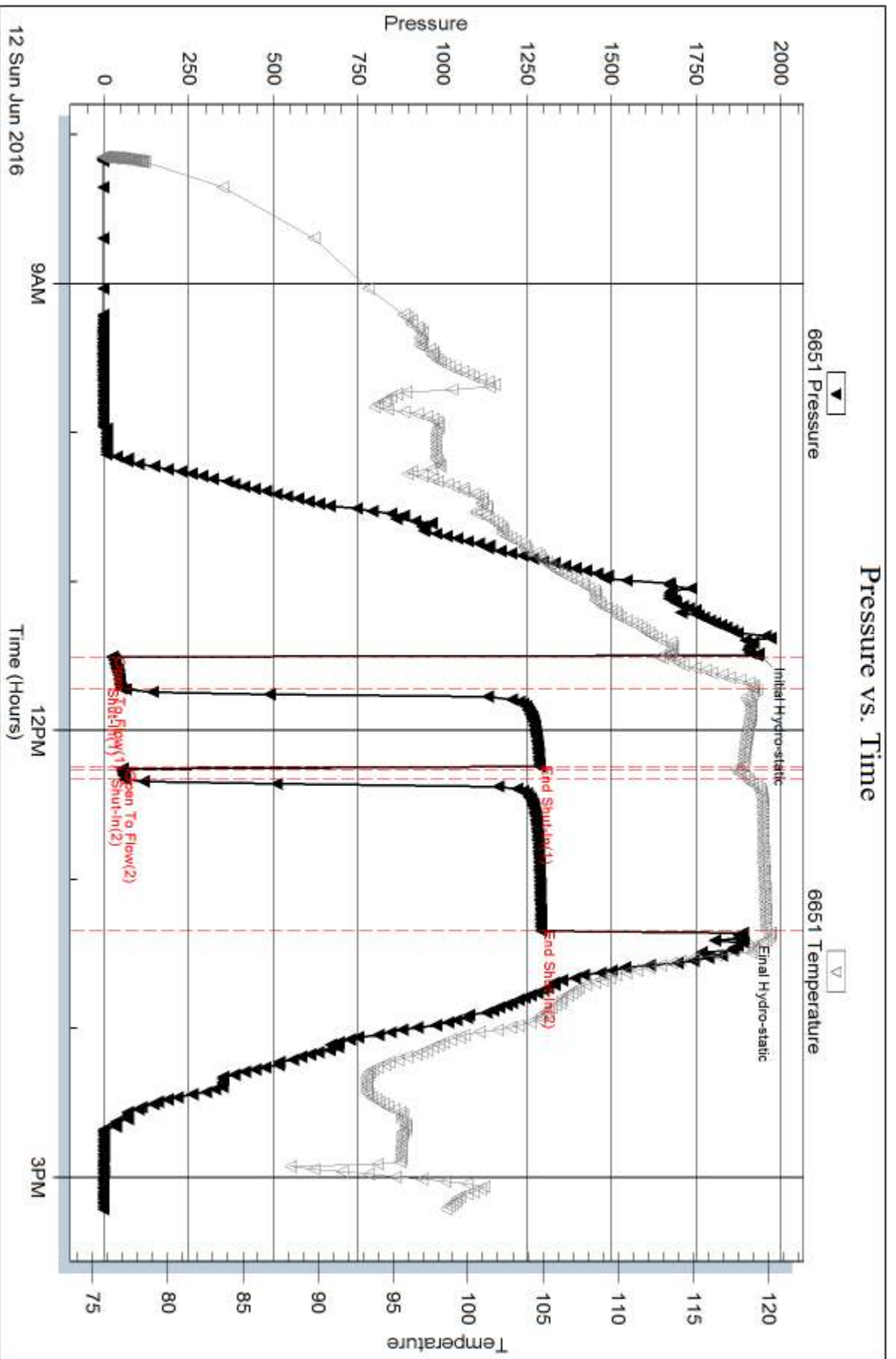
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

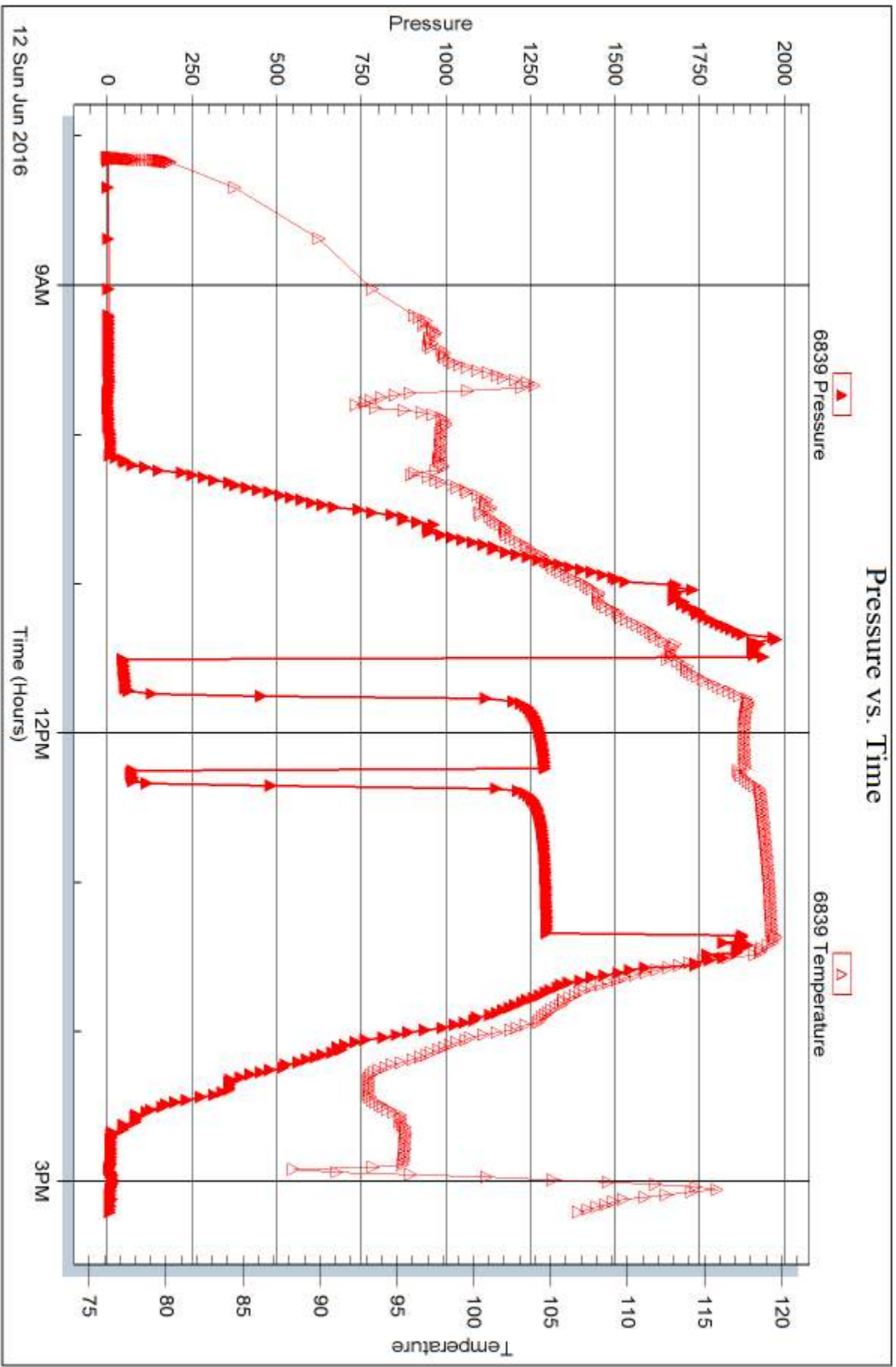


Serial #: 6839

Outside Carmen Schmitt, Inc.

WP Unit #1-7

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58087

Printed: 2016.06.16 @ 08:55:45



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, K S 67530

ATTN: Pat Deenihan

WP Unit #1-7

7-14S-25W Trego,KS

Start Date: 2016.06.12 @ 23:32:26

End Date: 2016.06.13 @ 06:01:26

Job Ticket #: 58088 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.06.16 @ 08:55:14



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, K S 67530
ATTN: Pat Deenihan

7-14S-25W Trego,KS

WP Unit #1-7

Job Ticket: 58088

DST#: 2

Test Start: 2016.06.12 @ 23:32:26

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:34:26
 Tester: Brannan Lonsdale
 Time Test Ended: 06:01:26
 Unit No: 73
 Interval: **3910.00 ft (KB) To 3939.00 ft (KB) (TVD)**
 Reference Elevations: 2439.00 ft (KB)
 Total Depth: 3939.00 ft (KB) (TVD)
 2434.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

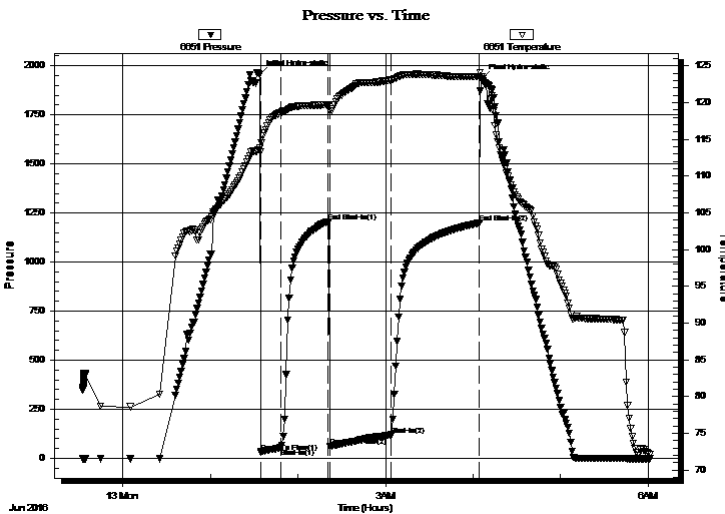
Serial #: 6651

Inside

Press@RunDepth: 118.96 psig @ 3936.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.06.12 End Date: 2016.06.13 Last Calib.: 2016.06.13
 Start Time: 23:32:27 End Time: 06:01:26 Time On Btm: 2016.06.13 @ 01:33:56
 Time Off Btm: 2016.06.13 @ 04:06:26

TEST COMMENT: 15- IF- BOB 4mins
 30- IS- Surface blow died in 7mins
 45- FF- BOB 5mins
 60- FSI- .5" blow throughout

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.01	113.81	Initial Hydro-static
1	30.15	113.31	Open To Flow (1)
14	52.63	118.61	Shut-In(1)
47	1205.43	119.69	End Shut-In(1)
48	60.38	118.82	Open To Flow (2)
90	118.96	123.06	Shut-In(2)
151	1198.50	123.51	End Shut-In(2)
153	1932.92	123.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
127.00	GMCO, 15%G 20%M 65%O	1.53
158.00	GO, 15%G 85%O	2.24
0.00	475' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, K S 67530
ATTN: Pat Deenihan

7-14S-25W Trego,KS
WP Unit #1-7
Job Ticket: 58088 **DST#: 2**
Test Start: 2016.06.12 @ 23:32:26

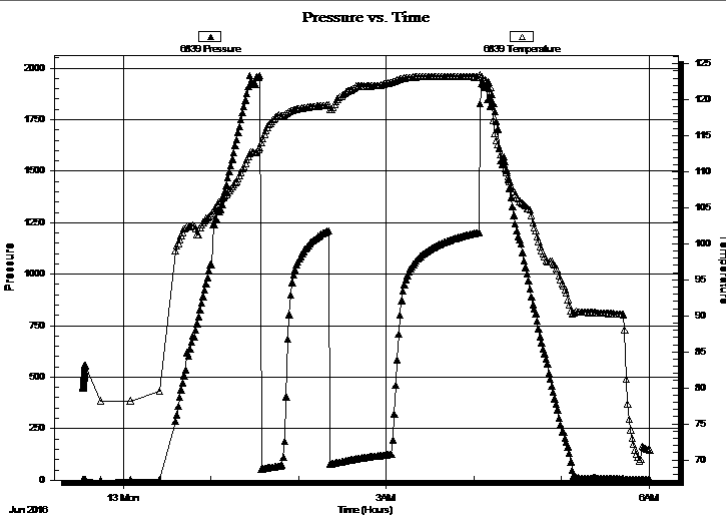
GENERAL INFORMATION:

Formation:	LKC "J"	Test Type:	Conventional Bottom Hole (Reset)	
Deviated:	No Whipstock:	ft (KB)	Tester:	Brannan Lonsdale
Time Tool Opened:	01:34:26	Unit No:	73	
Time Test Ended:	06:01:26	Reference Elevations:	2439.00 ft (KB)	
Interval:	3910.00 ft (KB) To 3939.00 ft (KB) (TVD)		2434.00 ft (CF)	
Total Depth:	3939.00 ft (KB) (TVD)	KB to GR/CF:	5.00 ft	
Hole Diameter:	7.88 inches	Hole Condition:	Fair	

Serial #: 6839	Outside	Capacity:	8000.00 psig
Press@RunDepth:	psig @ 3936.00 ft (KB)	Last Calib.:	2016.06.13
Start Date:	2016.06.12	End Date:	2016.06.13
Start Time:	23:32:02	End Time:	06:01:01
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 15- IF- BOB 4mins
30- IS- Surface blow died in 7mins
45- FF- BOB 5mins
60- FSI- .5" blow throughout

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
127.00	GMCO, 15%G 20%M 65%O	1.53
158.00	GO, 15%G 85%O	2.24
0.00	475' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

7-14S-25W Trego,KS

PO Box 47
Great Bend, K S 67530

WP Unit #1-7

Job Ticket: 58088

DST#: 2

ATTN: Pat Deenihan

Test Start: 2016.06.12 @ 23:32:26

Tool Information

Drill Pipe:	Length: 3865.00 ft	Diameter: 3.82 inches	Volume: 54.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3910.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 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			3891.00	
Shut In Tool	5.00			3896.00	
Hydraulic tool	5.00			3901.00	
Packer	5.00			3906.00	20.00 Bottom Of Top Packer
Packer	4.00			3910.00	
Stubb	1.00			3911.00	
Perforations	25.00			3936.00	
Recorder	0.00	6651	Inside	3936.00	
Recorder	0.00	6839	Outside	3936.00	
Bullnose	3.00			3939.00	29.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

7-14S-25W Trego, KS

PO Box 47
Great Bend, K S 67530

WP Unit #1-7

Job Ticket: 58088

DST#: 2

ATTN: Pat Deenihan

Test Start: 2016.06.12 @ 23:32:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
127.00	GMCO, 15%G 20%M 65%O	1.532
158.00	GO, 15%G 85%O	2.240
0.00	475' GIP	0.000

Total Length: 285.00 ft Total Volume: 3.772 bbl

Num Fluid Samples: 0

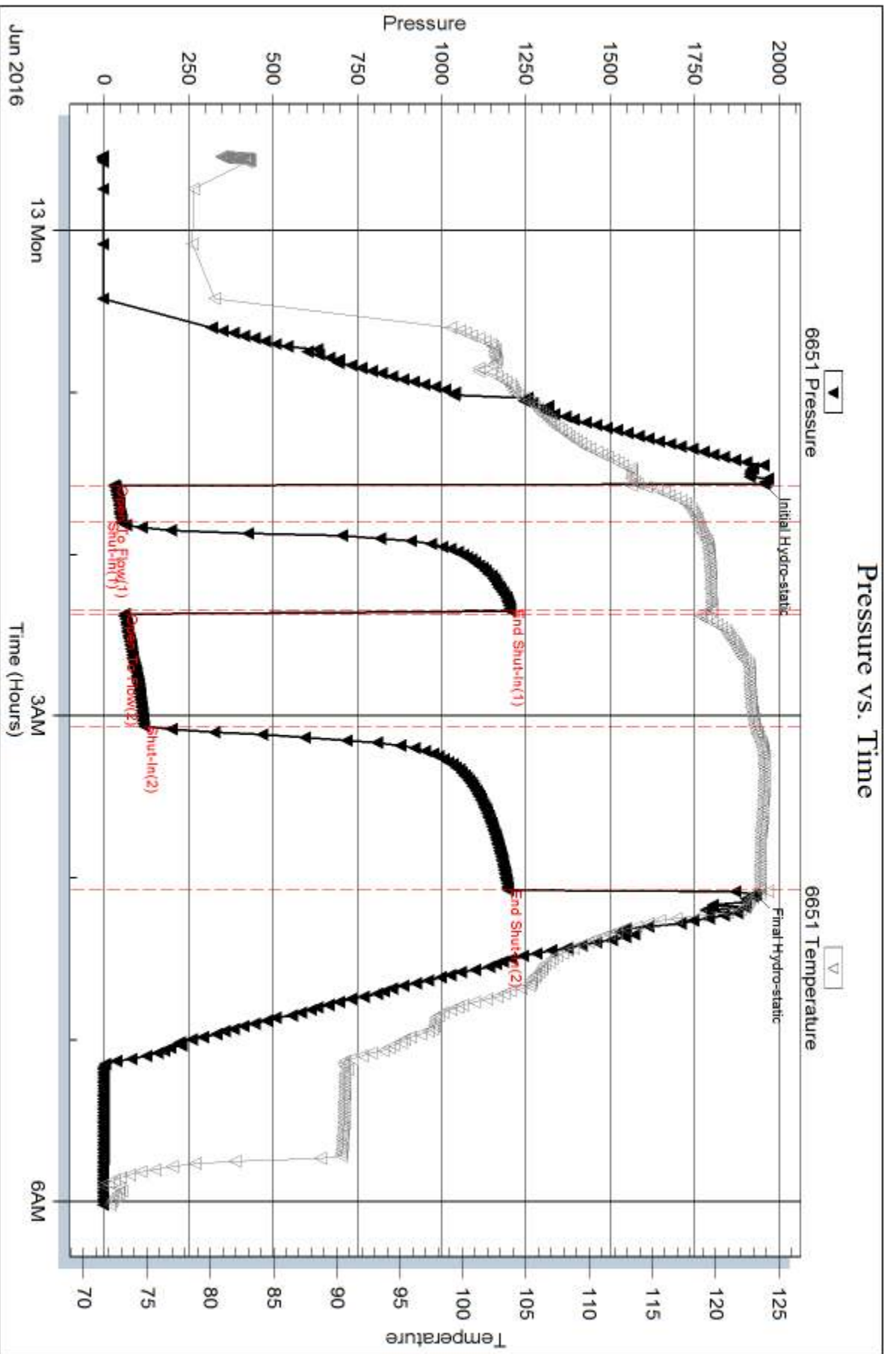
Num Gas Bombs: 0

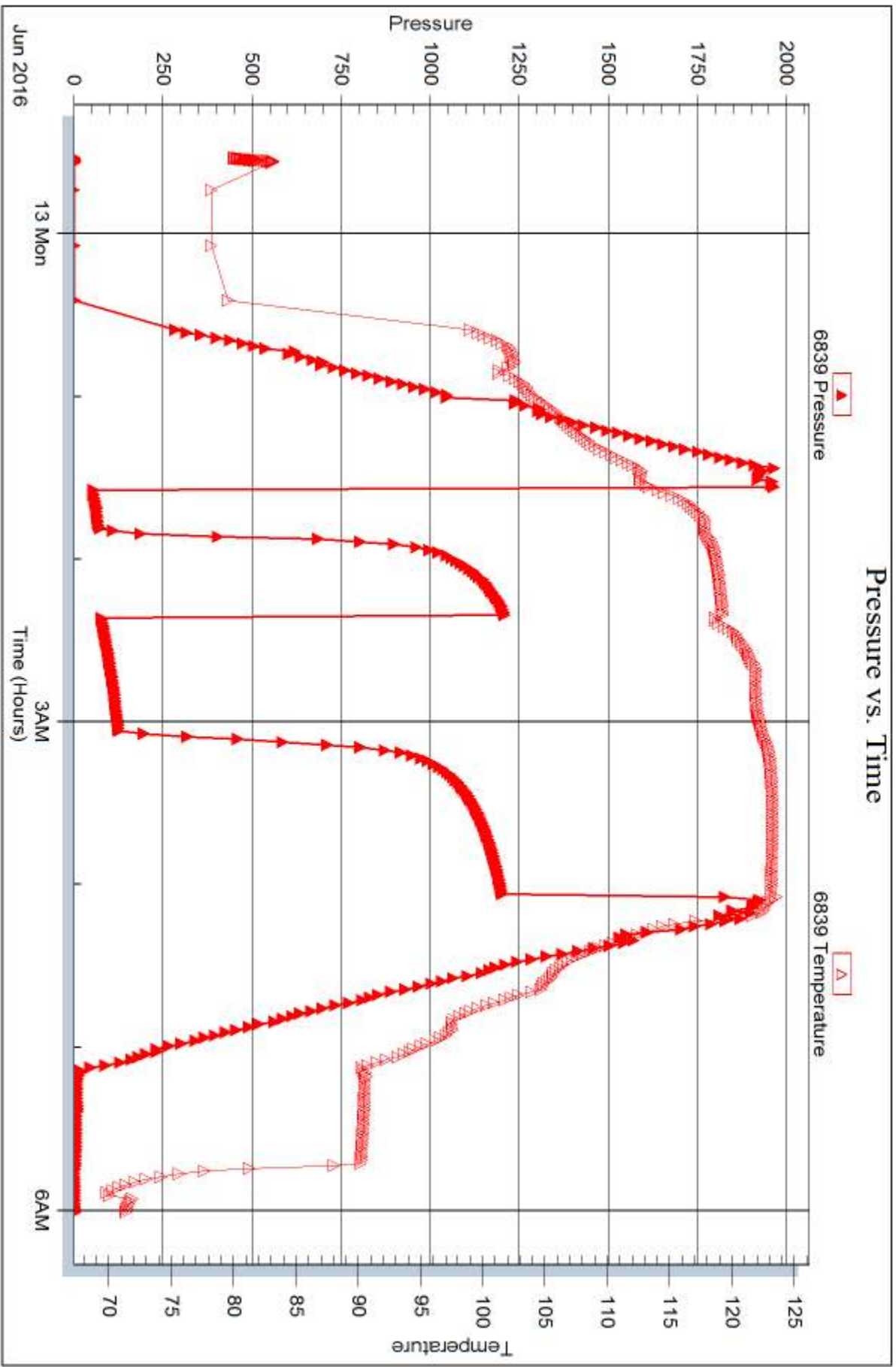
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, K S 67530

ATTN: Pat Deenihan

WP Unit #1-7

7-14S-25W Trego,KS

Start Date: 2016.06.13 @ 12:32:26

End Date: 2016.06.13 @ 19:09:26

Job Ticket #: 58089 DST #: 3

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

Printed: 2016.06.16 @ 08:54:47

Carmen Schmitt, Inc. 7-14S-25W Trego,KS WP Unit #1-7 DST # 3 LKC "K" 2016.06.13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, K S 67530
 ATTN: Pat Deenihan

7-14S-25W Trego,KS
WP Unit #1-7
 Job Ticket: 58089 **DST#: 3**
 Test Start: 2016.06.13 @ 12:32:26

GENERAL INFORMATION:

Formation: **LKC "K"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:22:26
 Time Test Ended: 19:09:26
 Interval: **3936.00 ft (KB) To 3962.00 ft (KB) (TVD)**
 Total Depth: 3962.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2439.00 ft (KB)
 2434.00 ft (CF)
 KB to GR/CF: 5.00 ft

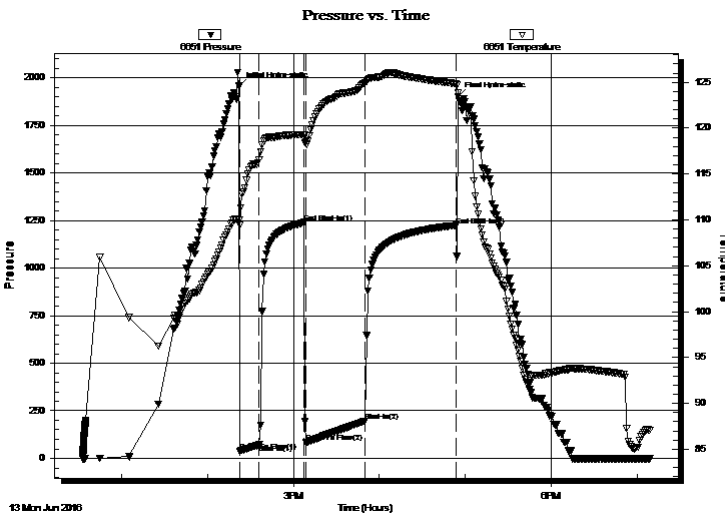
Serial #: 6651

Inside

Press@RunDepth: 196.40 psig @ 3959.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.06.13 End Date: 2016.06.13 Last Calib.: 2016.06.13
 Start Time: 12:32:27 End Time: 19:09:26 Time On Btm: 2016.06.13 @ 14:21:56
 Time Off Btm: 2016.06.13 @ 16:54:56

TEST COMMENT: 15- IF- BOB 2mins
 30- IS- Slowly bilt to 1"
 45- FF- BOB 3mins
 60- FS- BOB 48mins

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1956.09	110.02	Initial Hydro-static
1	38.01	109.40	Open To Flow (1)
14	73.31	116.56	Shut-In(1)
46	1240.36	119.27	End Shut-In(1)
47	83.60	118.52	Open To Flow (2)
88	196.40	124.91	Shut-In(2)
152	1224.05	124.84	End Shut-In(2)
153	1902.19	123.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
127.00	GOCM, 10%G 10%O 80%M	1.53
539.00	VGO, 35%G 65%O	7.64
0.00	2123' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, K S 67530
ATTN: Pat Deenihan

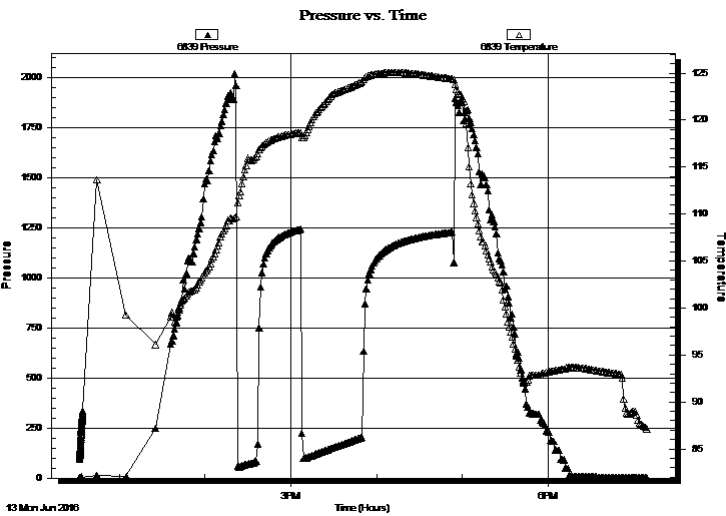
7-14S-25W Trego,KS
WP Unit #1-7
Job Ticket: 58089 **DST#: 3**
Test Start: 2016.06.13 @ 12:32:26

GENERAL INFORMATION:

Formation: **LKC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:22:26
Time Test Ended: 19:09:26
Interval: **3936.00 ft (KB) To 3962.00 ft (KB) (TVD)**
Total Depth: 3962.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale
Unit No: 73
Reference Elevations: 2439.00 ft (KB)
2434.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6839 Outside
Press@RunDepth: psig @ 3959.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.06.13 End Date: 2016.06.13 Last Calib.: 2016.06.13
Start Time: 12:32:24 End Time: 19:09:23 Time On Btm:
Time Off Btm:

TEST COMMENT: 15- IF- BOB 2mins
30- IS- Slow ly bilt to 1"
45- FF- BOB 3mins
60- FS- BOB 48mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
127.00	GOCM, 10%G 10%O 80%M	1.53
539.00	VGO, 35%G 65%O	7.64
0.00	2123' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

7-14S-25W Trego,KS

PO Box 47
Great Bend, K S 67530

WP Unit #1-7

Job Ticket: 58089

DST#: 3

ATTN: Pat Deenihan

Test Start: 2016.06.13 @ 12:32:26

Tool Information

Drill Pipe:	Length: 3897.00 ft	Diameter: 3.82 inches	Volume: 55.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3936.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 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			3917.00	
Shut In Tool	5.00			3922.00	
Hydraulic tool	5.00			3927.00	
Packer	5.00			3932.00	20.00 Bottom Of Top Packer
Packer	4.00			3936.00	
Stubb	1.00			3937.00	
Perforations	22.00			3959.00	
Recorder	0.00	6651	Inside	3959.00	
Recorder	0.00	6839	Outside	3959.00	
Bullnose	3.00			3962.00	26.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

7-14S-25W Trego, KS

PO Box 47
Great Bend, K S 67530

WP Unit #1-7

Job Ticket: 58089

DST#: 3

ATTN: Pat Deenihan

Test Start: 2016.06.13 @ 12:32:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
127.00	GOCM, 10%G 10%O 80%M	1.532
539.00	VGO, 35%G 65%O	7.641
0.00	2123' GIP	0.000

Total Length: 666.00 ft Total Volume: 9.173 bbl

Num Fluid Samples: 0

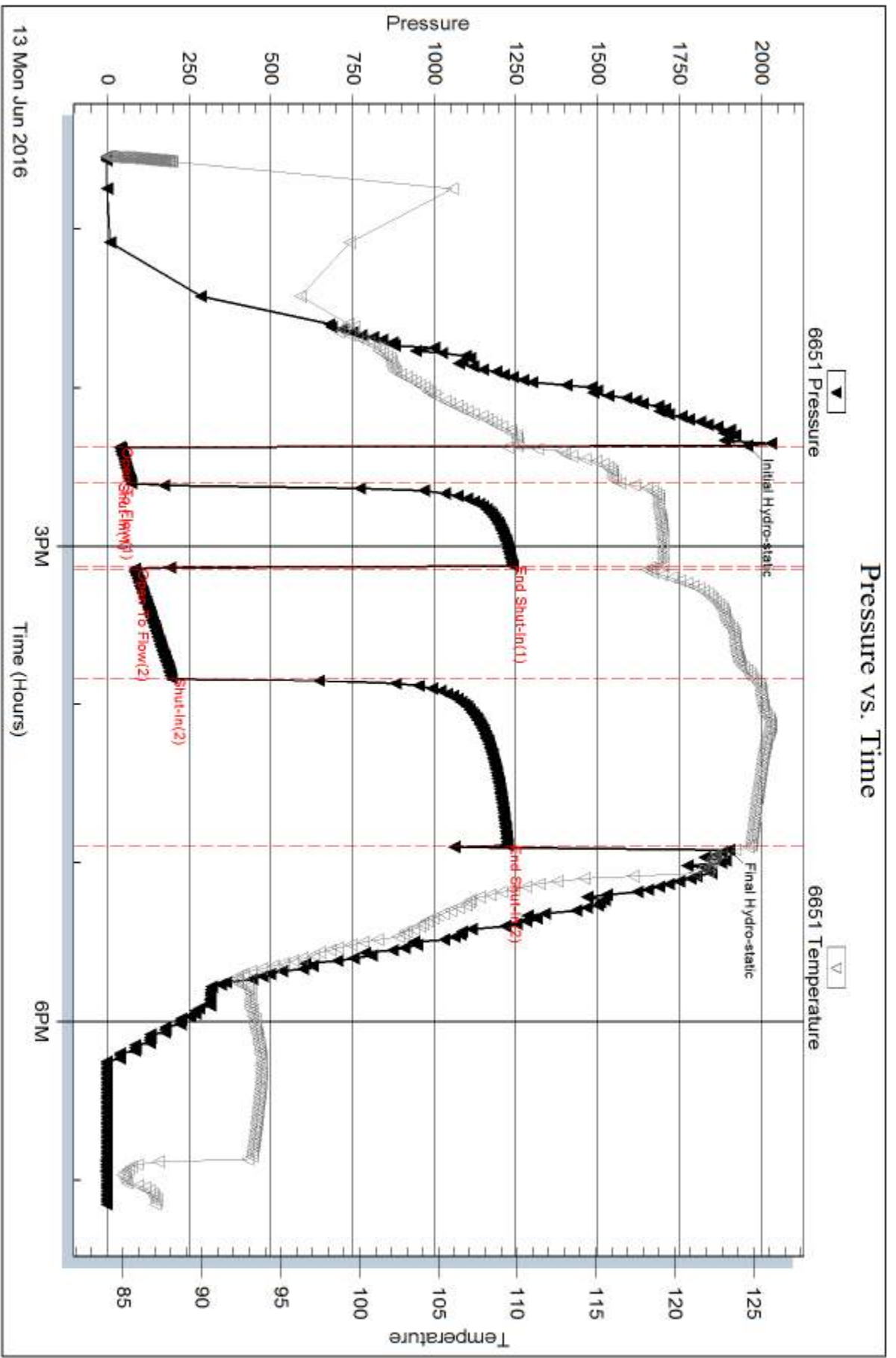
Num Gas Bombs: 0

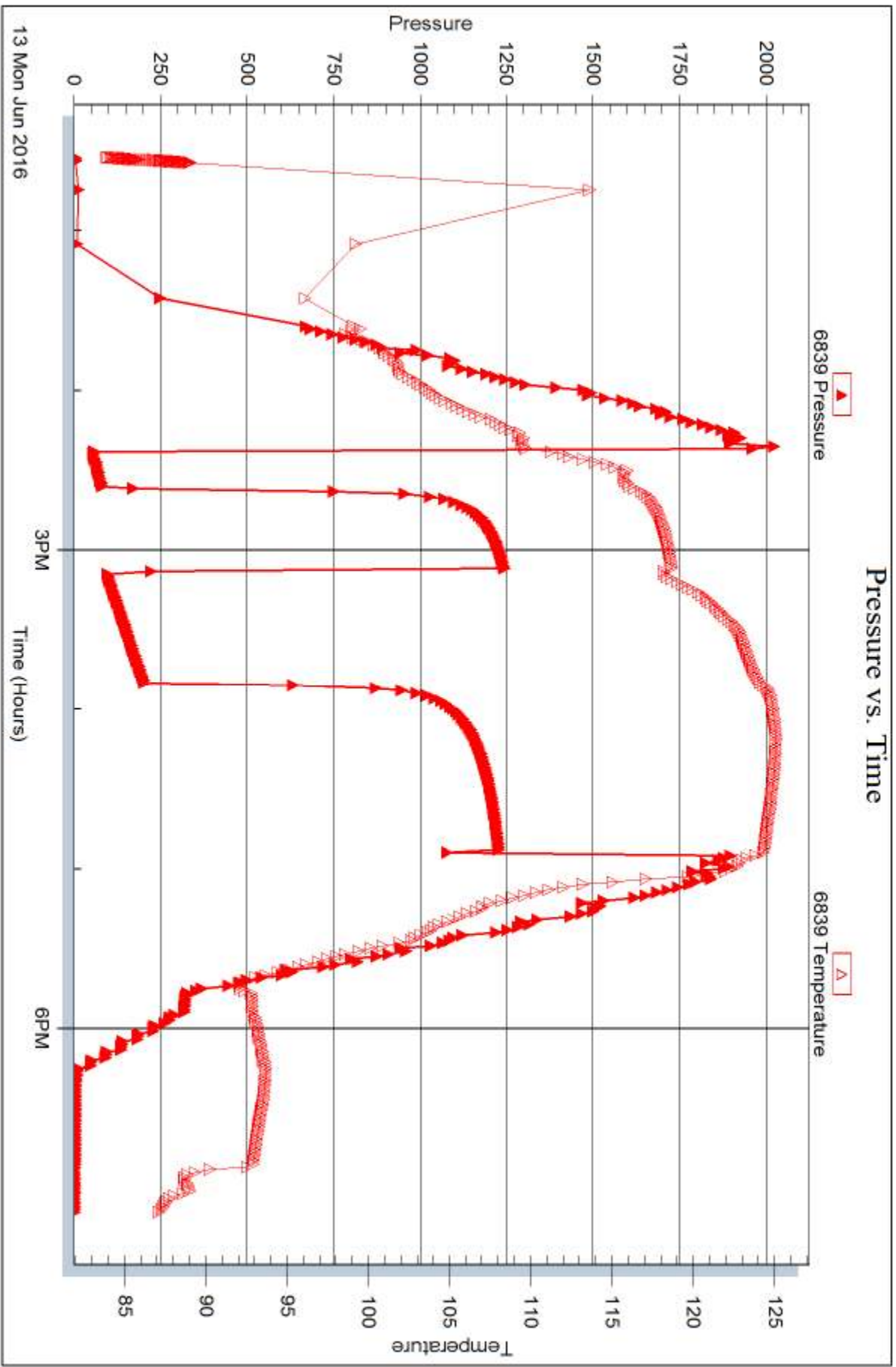
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





13 Mon Jun 2016



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, K S 67530

ATTN: Pat Deenihan

WP Unit #1-7

7-14S-25W Trego,KS

Start Date: 2016.06.14 @ 01:52:11

End Date: 2016.06.14 @ 06:12:11

Job Ticket #: 58090 DST #: 4

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

Printed: 2016.06.16 @ 08:53:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, K S 67530
ATTN: Pat Deenihan

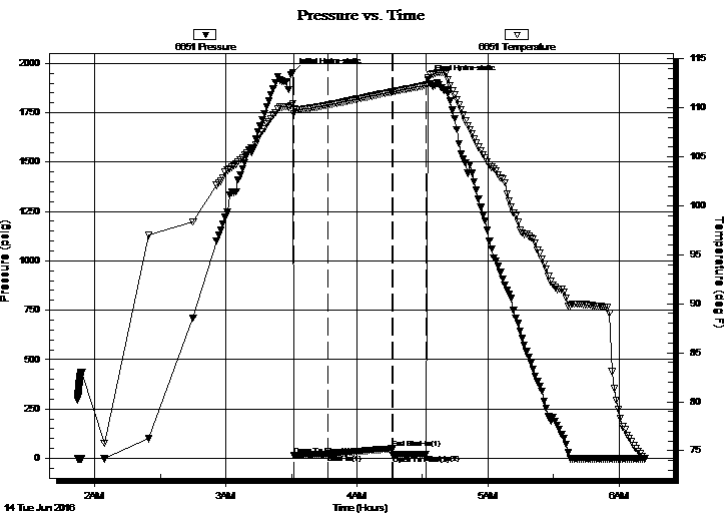
7-14S-25W Trego,KS
WP Unit #1-7
Job Ticket: 58090 **DST#: 4**
Test Start: 2016.06.14 @ 01:52:11

GENERAL INFORMATION:

Formation: **LKC "L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:31:11
Time Test Ended: 06:12:11
Interval: **3963.00 ft (KB) To 3992.00 ft (KB) (TVD)**
Total Depth: 3992.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan Lonsdale
Unit No: 73
Reference Elevations: 2439.00 ft (KB)
2434.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6651 Inside
Press@RunDepth: 18.32 psig @ 3989.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.06.14 End Date: 2016.06.14 Last Calib.: 2016.06.14
Start Time: 01:52:12 End Time: 06:12:11 Time On Btm: 2016.06.14 @ 03:30:41
Time Off Btm: 2016.06.14 @ 04:32:41

TEST COMMENT: 15- IF- Slowly built to .5"
30- IS- No blow
15- FF- No blow Pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.66	110.44	Initial Hydro-static
1	14.33	109.42	Open To Flow (1)
16	18.32	110.29	Shut-In(1)
46	48.52	111.65	End Shut-In(1)
46	15.46	111.66	Open To Flow (2)
61	19.47	112.32	Shut-In(2)
62	1919.23	113.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, K S 67530
ATTN: Pat Deenihan

7-14S-25W Trego, KS

WP Unit #1-7

Job Ticket: 58090

DST#: 4

Test Start: 2016.06.14 @ 01:52:11

GENERAL INFORMATION:

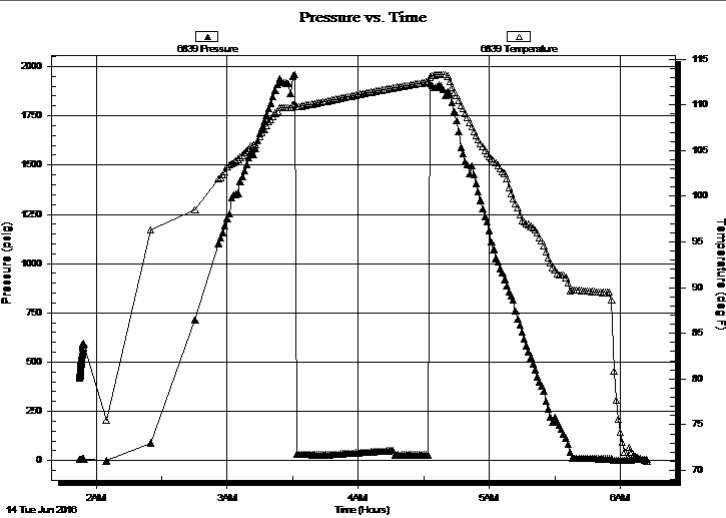
Formation: **LKC "L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:31:11
 Time Test Ended: 06:12:11
 Interval: **3963.00 ft (KB) To 3992.00 ft (KB) (TVD)**
 Total Depth: 3992.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2439.00 ft (KB)
 2434.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6839

Outside

Press@RunDepth: psig @ 3989.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.06.14 End Date: 2016.06.14 Last Calib.: 2016.06.14
 Start Time: 01:52:27 End Time: 06:12:26 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15- IF- Slowly built to .5"
 30- IS- No blow
 15- FF- No blow Pulled tool



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

7-14S-25W Trego,KS

PO Box 47
Great Bend, K S 67530

WP Unit #1-7

Job Ticket: 58090

DST#: 4

ATTN: Pat Deenihan

Test Start: 2016.06.14 @ 01:52:11

Tool Information

Drill Pipe:	Length: 3928.00 ft	Diameter: 3.82 inches	Volume: 55.68 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	53000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3963.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	51.00 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			3942.00	
Shut In Tool	5.00			3947.00	
Hydraulic tool	5.00			3952.00	
Safety Joint	2.00			3954.00	
Packer	5.00			3959.00	22.00 Bottom Of Top Packer
Packer	4.00			3963.00	
Stubb	1.00			3964.00	
Perforations	25.00			3989.00	
Recorder	0.00	6651	Inside	3989.00	
Recorder	0.00	6839	Outside	3989.00	
Bullnose	3.00			3992.00	29.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

7-14S-25W Trego, KS

PO Box 47
Great Bend, K S 67530

WP Unit #1-7

Job Ticket: 58090

DST#: 4

ATTN: Pat Deenihan

Test Start: 2016.06.14 @ 01:52:11

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:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

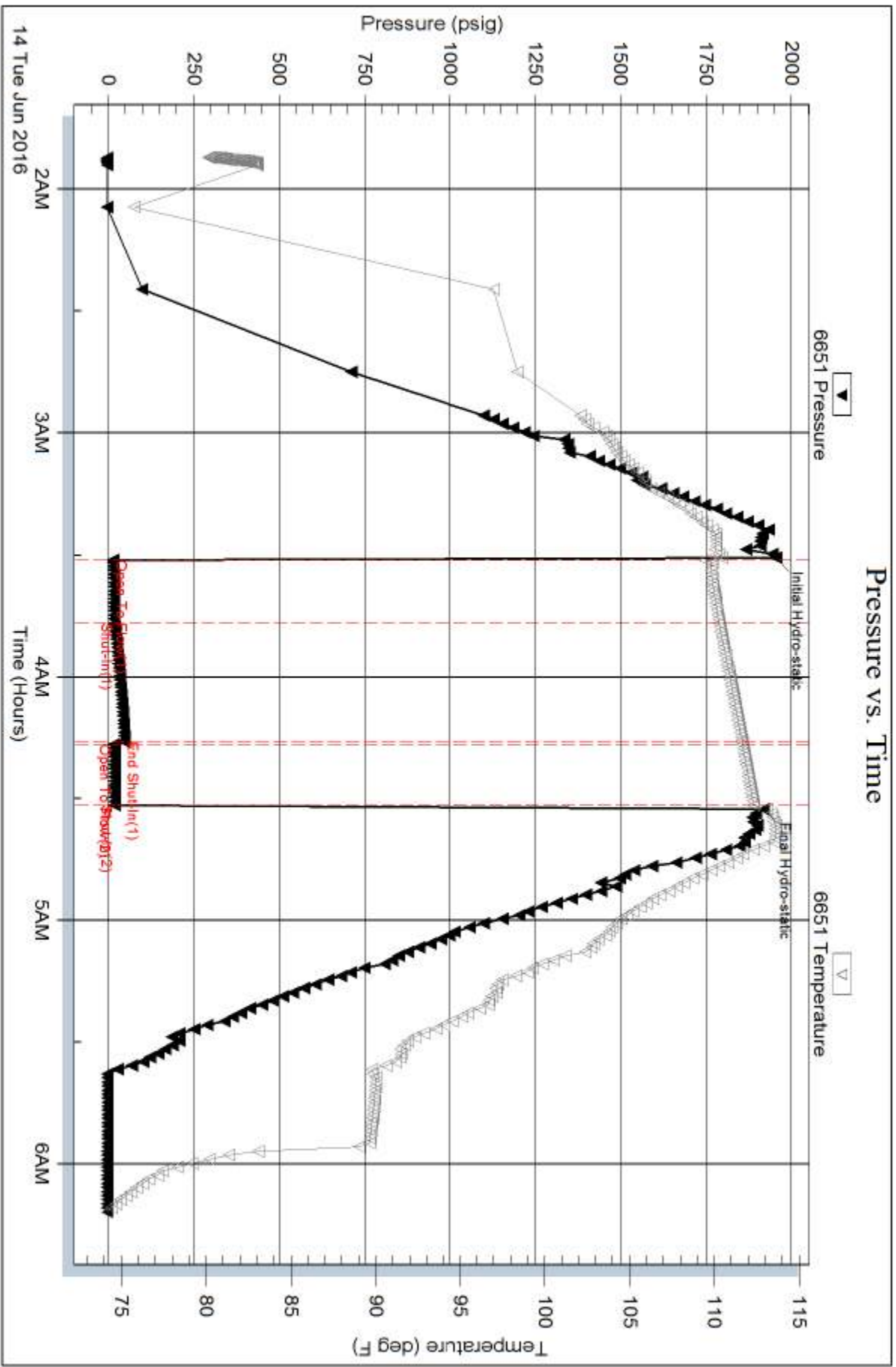
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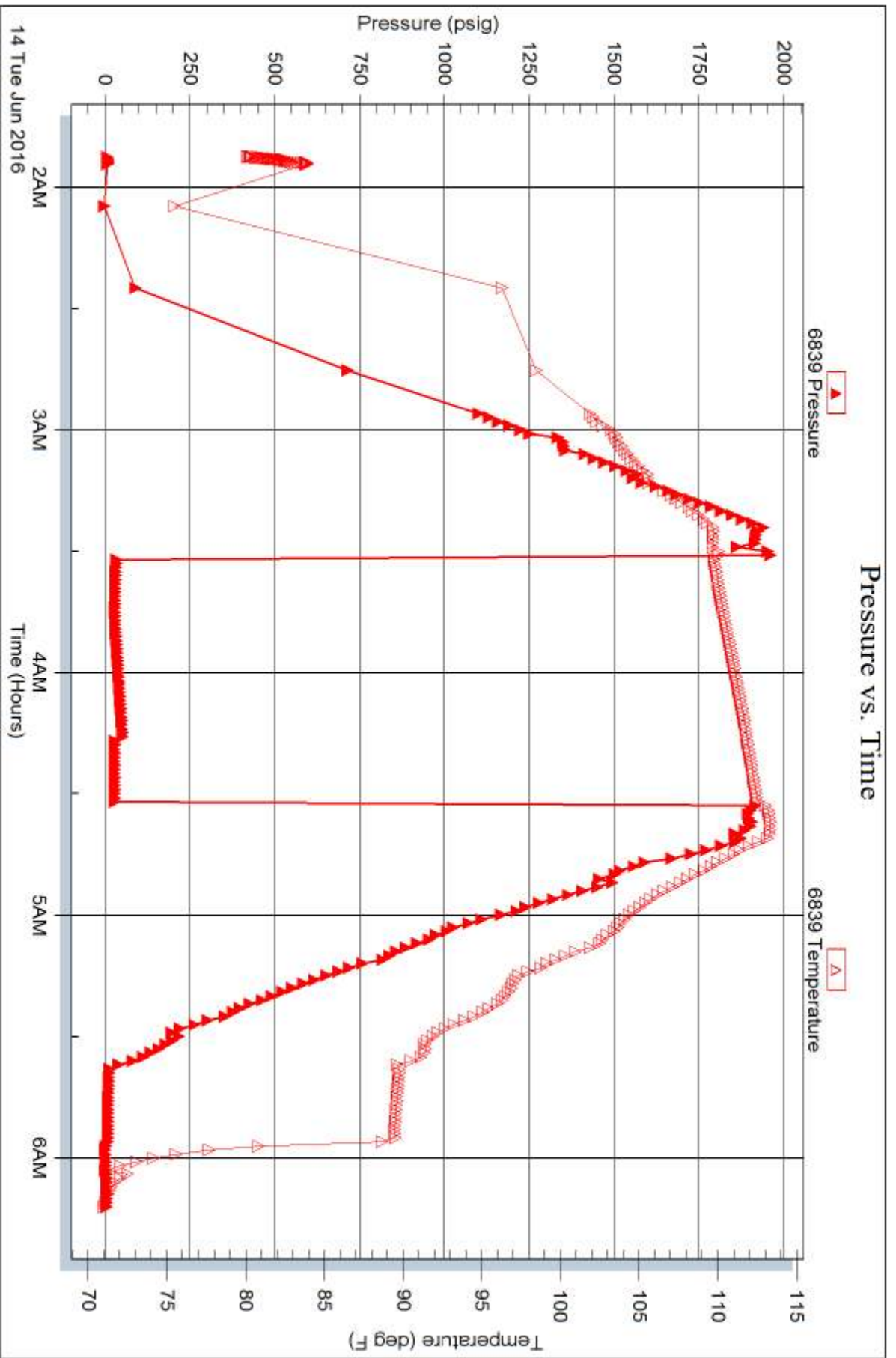
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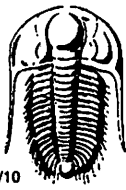
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58087

Well Name & No. WP Unit #1-7 Test No. 1 Date 6/12/16
 Company Carmen Schmitt, Inc. Elevation 2439 KB 2434 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Pat Deenihan Rig Murfin #16
 Location: Sec. 7 Twp. 14 S Rge. 25 W Co. Trego State KS

Interval Tested 3858 - 3890 Zone Tested LKC "H"
 Anchor Length 32' Drill Pipe Run 3834 Mud Wt. 8.6
 Top Packer Depth 3853 Drill Collars Run 29 Vis 60+
 Bottom Packer Depth 3858 Wt. Pipe Run WL 6.8
 Total Depth 3890 Chlorides 3,000 ppm System LCM 2⁺

Blow Description IF - BOB 7mins
ISI - Surface Blow died in 6mins
PF - BOB 5mins
FST - Surface Blow died in 37mins

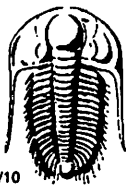
Rec	Feet of	%gas	%oil	%water	%mud
<u>143</u>	<u>Feet of HMCO</u>		<u>70</u>		<u>30</u>
Rec	Feet of <u>55' CIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 143' BHT 120° Gravity 32 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic <u>1934</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0754</u>
(B) First Initial Flow <u>23</u>	<input type="checkbox"/> Jars <u> </u>	T-Started <u>0808</u>
(C) First Final Flow <u>50</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1129</u>
(D) Initial Shut-In <u>1287</u>	<input type="checkbox"/> Circ Sub <u> </u>	T-Pulled <u>1319</u>
(E) Second Initial Flow <u>54</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>1512</u>
(F) Second Final Flow <u>61</u>	<input checked="" type="checkbox"/> Mileage <u>126 RT</u> 94.50	Comments <u> </u>
(G) Final Shut-In <u>1292</u>	<input type="checkbox"/> Sampler <u> </u>	
(H) Final Hydrostatic <u>1887</u>	<input type="checkbox"/> Straddle <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u> </u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
Final Flow <u>5</u>	<input type="checkbox"/> Extra Recorder <u> </u>	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby <u> </u>	Total <u>1469.50</u>
	<input type="checkbox"/> Accessibility <u> </u>	MP/DST Disc't <u> </u>
	Sub Total <u>1469.50</u>	

Approved By Our Representative Brannan Lonsdale

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58088

4/10

Well Name & No. WP Unit #1-7 Test No. 2 Date 6/12/16
 Company Carmen Schmitt, Inc. Elevation 2439 KB 2434 GL
 Address PO Box #7 Great Bend, KS 67530
 Co. Rep / Geo. Pat Deenihan Rig Murphy #16
 Location: Sec. 7 Twp. 14 S Rge. 25 W Co. Trego State KS

Interval Tested 3910-3939 Zone Tested LKC "J"
 Anchor Length 29' Drill Pipe Run 3865 Mud Wt. 9.1
 Top Packer Depth 3905 Drill Collars Run 29 Vis 52
 Bottom Packer Depth 3910 Wt. Pipe Run — WL 6.4
 Total Depth 3939 Chlorides 2,400 ppm System LCM 2nd

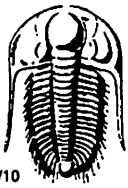
Blow Description IF-BOB 4mins
FST-Surface blow down in 7mins
FF-BOB 5mins
FST-1" blow throughout

Rec	Feet of	%gas	%oil	%water	%mud
<u>127</u>	<u>Feet of GACO</u>	<u>15</u>	<u>65</u>	<u>20</u>	<u>—</u>
<u>158</u>	<u>Feet of GO</u>	<u>15</u>	<u>85</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>Feet of 475' GIP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>Feet of</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>Feet of</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 285' BHT 24⁰ Gravity 34 API RW — @ — °F Chlorides — ppm
 Test 1050
 (A) Initial Hydrostatic 1956 Jars — T-On Location 2320
 (B) First Initial Flow 30 Safety Joint — T-Started 2332
 (C) First Final Flow 53 Circ Sub — T-Open 6/13 0133
 (D) Initial Shut-In 1205 Hourly Standby — T-Pulled 0403
 (E) Second Initial Flow 60 Mileage 126 RT 94.50 T-Out 0601
 (F) Second Final Flow 119 Sampler — Comments —
 (G) Final Shut-In 1199 Straddle —
 (H) Final Hydrostatic 1933 Shale Packer 250 Ruined Shale Packer —
 Extra Packer — Ruined Packer —
 Extra Recorder — Extra Copies —
 Initial Open 15 Day Standby — Sub Total 0
 Initial Shut-In 30 Accessibility — Total 1394.50
 Final Flow 45 Sub Total 1394.50 MP/DST Disc't —
 Final Shut-In 60

Approved By _____ Our Representative Brannen Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58089

Well Name & No. WP Unit #1-7 Test No. 3 Date 6/13/16
 Company Carmen Schmitt, Inc. Elevation 2439 KB 2434 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Pat Deandhan Rig Murfon #16
 Location: Sec. 7 Twp. 14 S Rge. 25 W Co. Trego State KS

Interval Tested 2936 - 3962 Zone Tested LKC "K"
 Anchor Length 26' Drill Pipe Run 3897 Mud Wt. 9.3
 Top Packer Depth 3931 Drill Collars Run 29 Vis 60+
 Bottom Packer Depth 3936 Wt. Pipe Run — WL 7.2
 Total Depth 3962 Chlorides 3,800 ppm System LCM 2⁺

Blow Description IF - BOB 2 mins
ISF - slowly built to 1"
FE - BOB 3 mins
FSF - BOB 48 mins

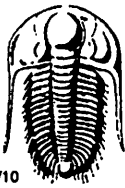
Rec	Feet of	%gas	%oil	%water	%mud
<u>127</u>	<u>50CM</u>	<u>10%</u>	<u>10%</u>	<u>80%</u>	<u>0%</u>
<u>539</u>	<u>1690</u>	<u>35%</u>	<u>65%</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>2123' GTP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 666' BHT 125° Gravity 32 API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1956 Test 1050 T-On Location 1227
 (B) First Initial Flow 38 Jars — T-Started 1232
 (C) First Final Flow 73 Safety Joint — T-Open 1422
 (D) Initial Shut-In 1240 Circ Sub — T-Pulled 1652
 (E) Second Initial Flow 84 Hourly Standby — T-Out 1909
 (F) Second Final Flow 196 Mileage 126 RT 94.50 Comments —
 (G) Final Shut-In 1224 Sampler —
 (H) Final Hydrostatic 1902 Straddle — Ruined Shale Packer —
 Shale Packer 250 Ruined Packer —
 Extra Packer — Extra Copies —
 Initial Open 15 Extra Recorder — Sub Total 0
 Initial Shut-In 30 Day Standby — Total 1394.50
 Final Flow 45 Accessibility — MP/DST Disc't —
 Final Shut-In 60 Sub Total 1394.50

Approved By _____ Our Representative Brannon Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58090

Well Name & No. WP Unit #1-7 Test No. 4 Date 6/14/16
 Company Carmen Schmidt, Inc. Elevation 2439 KB 2434 GL
 Address PO Box 47 Great Bend, KS 67530
 Co. Rep / Geo. Pete Deenihan Rig Martin #16
 Location: Sec. 7 Twp. 14 S Rge. 25 W Co. Trego State KS

Interval Tested 3963-3992 Zone Tested LKC "L"
 Anchor Length 29' Drill Pipe Run 3928 Mud Wt. 9.3
 Top Packer Depth 3958 Drill Collars Run 29 Vis 60+
 Bottom Packer Depth 3963 Wt. Pipe Run --- WL 7.2
 Total Depth 3992 Chlorides 3800 ppm System LCM 2#
 Blow Description IF - Slowly built to 1/2"
ISI - No flow
FF - No flow pulled tool
FSL -

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>OSM</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15' BHT 112° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1955 Test 1050 T-On Location 0148
 (B) First Initial Flow 14 Jars _____ T-Started 0152
 (C) First Final Flow 18 Safety Joint _____ T-Open 0331
 (D) Initial Shut-In 49 Circ Sub _____ T-Pulled 0431
 (E) Second Initial Flow 15 Hourly Standby _____ T-Out 0612
 (F) Second Final Flow 19 Mileage 126 RT 94.50 Comments Loaded tools
 (G) Final Shut-In _____ Sampler _____ 94.50 6/15 @ 1000
 (H) Final Hydrostatic 1919 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby Not 36 hrs Total 1489
 Final Flow 15 Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1489.00

Approved By _____ Our Representative Brannan Lonsdale

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