



DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205
Houston, TX 77073

ATTN: Tom Williams

Eaton #3-18

18-16s-28w Lane,KS

Start Date: 2015.08.01 @ 23:27:00

End Date: 2015.08.02 @ 07:15:45

Job Ticket #: 61827 DST #: 1

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

Printed: 2015.08.08 @ 09:56:36



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

18-16s-28w Lane, KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61827

DST#: 1

ATTN: Tom Williams

Test Start: 2015.08.01 @ 23:27:00

GENERAL INFORMATION:

Formation: **LKC F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:43:15

Time Test Ended: 07:15:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: 3907.00 ft (KB) To 3926.00 ft (KB) (TVD)

Reference Elevations: 2657.00 ft (KB)

Total Depth: 3926.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 103.92 psig @ 3908.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.01

End Date:

2015.08.02

Last Calib.: 2015.08.02

Start Time: 23:27:05

End Time:

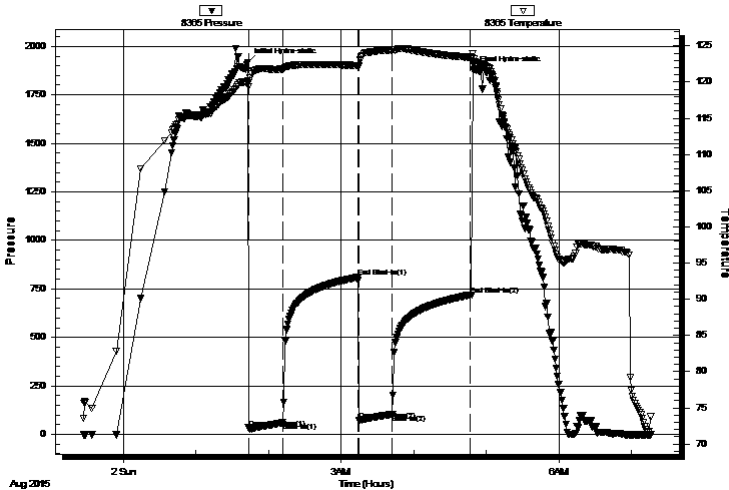
07:15:44

Time On Btm: 2015.08.02 @ 01:43:00

Time Off Btm: 2015.08.02 @ 04:49:00

TEST COMMENT: IF: BOB @ 4 min.
IS: 4" return.
FF: BOB @ 9 min.
FS: 5" return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.69	120.26	Initial Hydro-static
1	33.07	119.39	Open To Flow (1)
29	60.70	121.81	Shut-In (1)
91	809.20	122.29	End Shut-In (1)
92	71.36	122.11	Open To Flow (2)
120	103.92	124.46	Shut-In (2)
184	719.17	123.42	End Shut-In (2)
186	1877.68	123.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	gw mco 5g 10w 20m 65o	0.84
190.00	go 15g 85o	2.67
0.00	370' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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K3 Oil & Gas Operating Co

18-16s-28w Lane, KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61827

DST#: 1

ATTN: Tom Williams

Test Start: 2015.08.01 @ 23:27:00

GENERAL INFORMATION:

Formation: **LKC F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:43:15

Time Test Ended: 07:15:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: 3907.00 ft (KB) To 3926.00 ft (KB) (TVD)

Total Depth: 3926.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2657.00 ft (KB)

2648.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press@RunDepth: psig @ 3908.00 ft (KB)

Start Date: 2015.08.01

End Date:

2015.08.02

Start Time: 23:27:05

End Time:

07:15:59

Capacity: 8000.00 psig

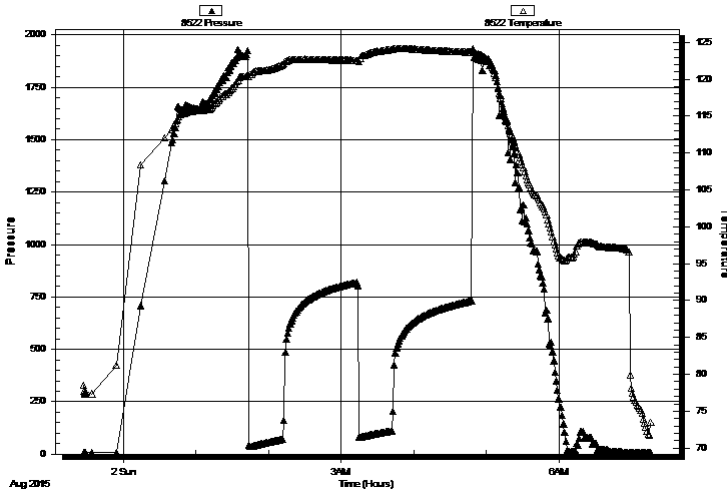
Last Calib.: 2015.08.02

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 4 min.
IS: 4" return.
FF: BOB @ 9 min.
FS: 5" return.

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
60.00	gw mco 5g 10w 20m 65o	0.84
190.00	go 15g 85o	2.67
0.00	370' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61827

DST#: 1

ATTN: Tom Williams

Test Start: 2015.08.01 @ 23:27:00

Tool Information

Drill Pipe:	Length:	3903.00 ft	Diameter:	3.80 inches	Volume:	54.75 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	58000.00 lb
					Total Volume:	54.75 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft					String Weight: Initial	46000.00 lb	
Depth to Top Packer:	3907.00 ft					Final	49000.00 lb	
Depth to Bottom Packer:	ft							
Interval between Packers:	19.00 ft							
Tool Length:	46.00 ft							
Number of Packers:	2		Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3881.00	
Shut In Tool	5.00			3886.00	
Hydraulic tool	5.00			3891.00	
Jars	5.00			3896.00	
Safety Joint	2.00			3898.00	
Packer	5.00			3903.00	27.00 Bottom Of Top Packer
Packer	4.00			3907.00	
Stubb	1.00			3908.00	
Recorder	0.00	8365	Inside	3908.00	
Recorder	0.00	8522	Outside	3908.00	
Perforations	15.00			3923.00	
Bullnose	3.00			3926.00	19.00 Bottom Packers & Anchor

Total Tool Length: 46.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61827

DST#: 1

ATTN: Tom Williams

Test Start: 2015.08.01 @ 23:27:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.79 in³

Resistivity: ohm.m

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

37 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gw mco 5g 10w 20m 65o	0.842
190.00	go 15g 85o	2.665
0.00	370' GIP	0.000

Total Length: 250.00 ft

Total Volume: 3.507 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

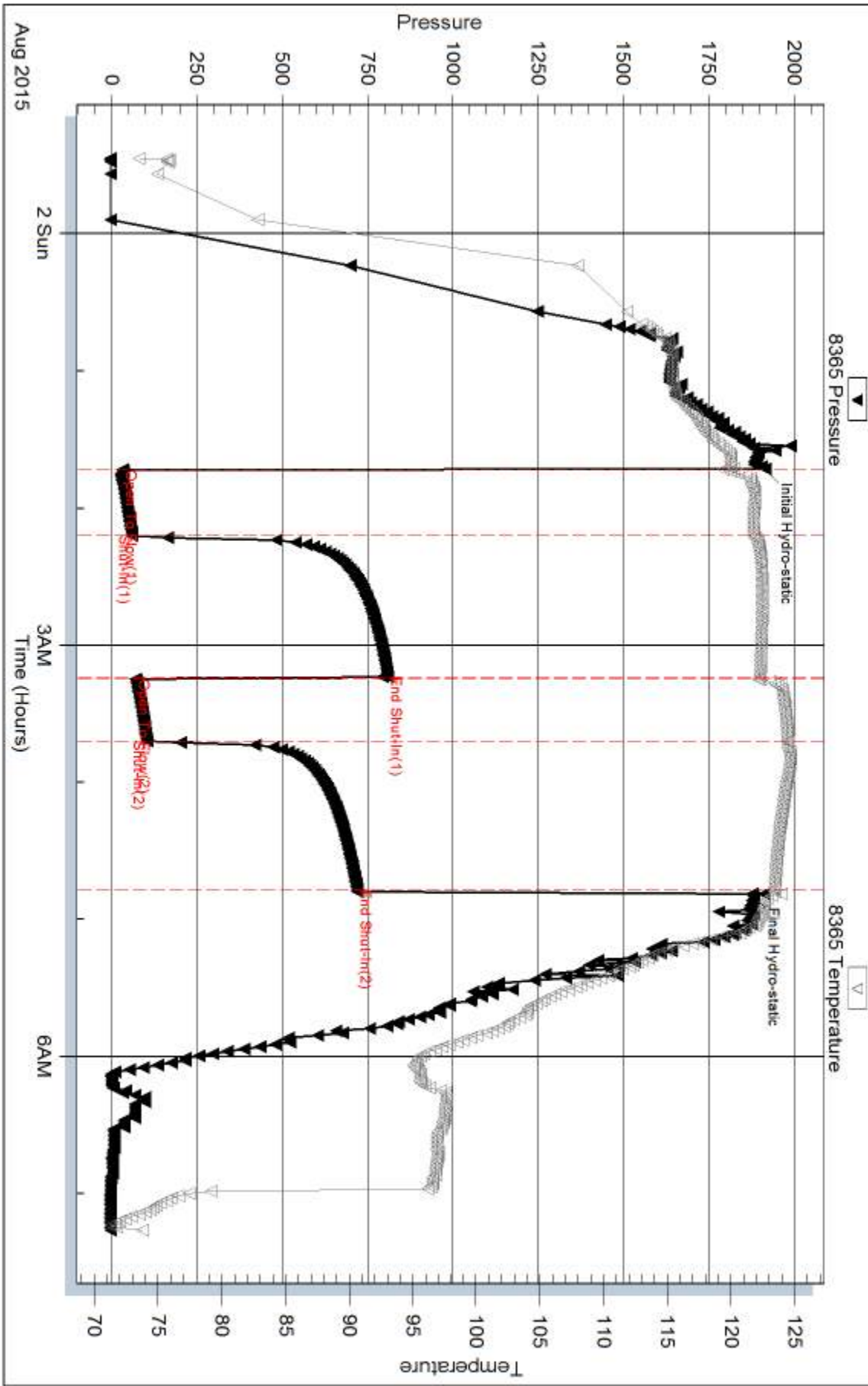
Inside

K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 1

Pressure vs. Time

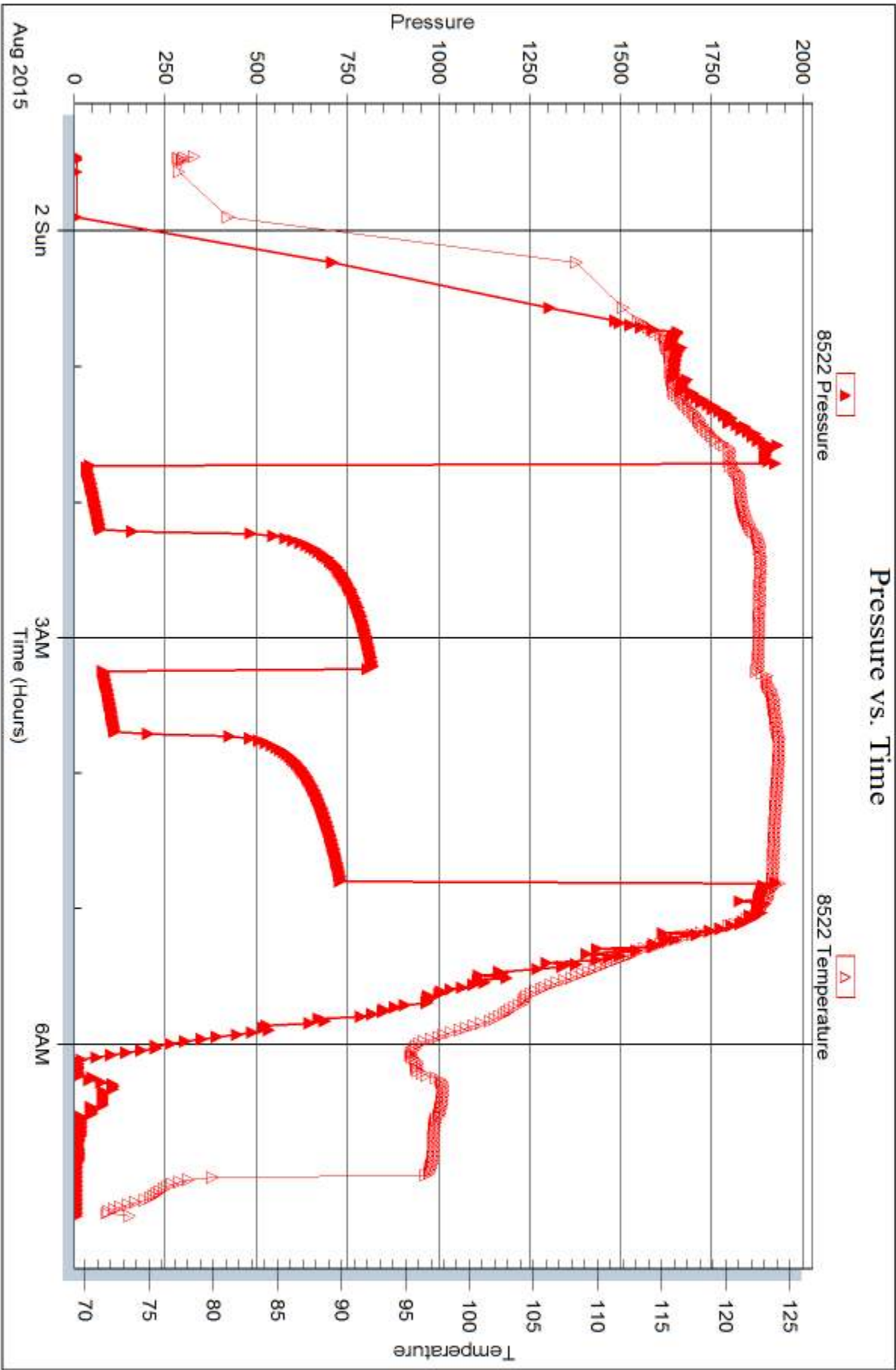


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205
Houston, TX 77073

ATTN: Tom Williams

Eaton #3-18

18-16s-28w Lane,KS

Start Date: 2015.08.02 @ 23:20:00

End Date: 2015.08.03 @ 05:25:00

Job Ticket #: 61808 DST #: 2

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

Printed: 2015.08.08 @ 09:56:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

18-16s-28w Lane, KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61808

DST#: 2

ATTN: Tom Williams

Test Start: 2015.08.02 @ 23:20:00

GENERAL INFORMATION:

Formation: **LKC - H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:50:30

Time Test Ended: 05:25:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 3988.00 ft (KB) To 4016.00 ft (KB) (TVD)

Total Depth: 4016.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2657.00 ft (KB)

2648.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 165.22 psig @ 3989.00 ft (KB)

Start Date: 2015.08.02

End Date:

2015.08.03

Start Time: 23:20:05

End Time:

05:24:59

Capacity: 8000.00 psig

Last Calib.: 2015.08.03

Time On Btm: 2015.08.03 @ 00:50:15

Time Off Btm: 2015.08.03 @ 02:50:30

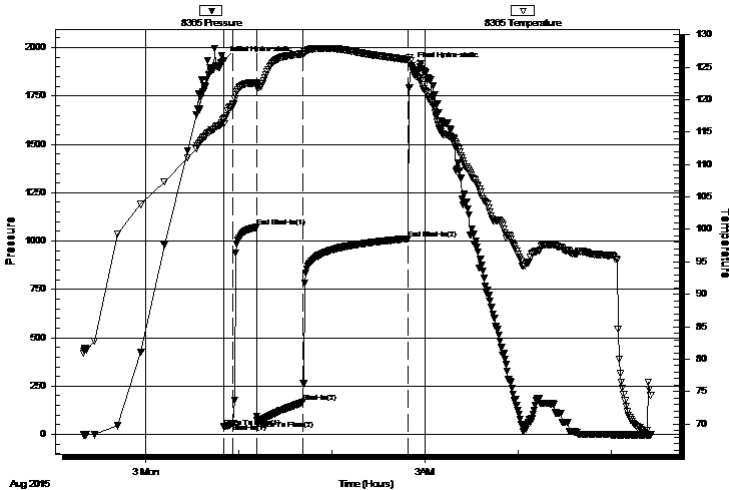
TEST COMMENT: IF: BOB @ 2.5 min.

IS: 1" return.

FF: BOB @ 2 min.

FS: 9" return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.00	116.96	Initial Hydro-static
1	38.38	116.32	Open To Flow (1)
6	56.75	119.12	Shut-In(1)
21	1071.59	122.51	End Shut-In(1)
22	70.72	122.19	Open To Flow (2)
51	165.22	127.05	Shut-In(2)
119	1012.46	126.14	End Shut-In(2)
121	1904.02	126.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	gmco 30g 30m 40o	1.26
320.00	go 30g 70o	4.49
0.00	600' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

18-16s-28w Lane, KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61808

DST#: 2

ATTN: Tom Williams

Test Start: 2015.08.02 @ 23:20:00

GENERAL INFORMATION:

Formation: **LKC - H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:50:30

Time Test Ended: 05:25:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 3988.00 ft (KB) To 4016.00 ft (KB) (TVD)

Total Depth: 4016.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2657.00 ft (KB)

2648.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press@RunDepth: psig @ 3989.00 ft (KB)

Start Date: 2015.08.02

End Date:

2015.08.03

Start Time: 23:20:05

End Time:

05:24:59

Capacity: 8000.00 psig

Last Calib.: 2015.08.03

Time On Btm:

Time Off Btm:

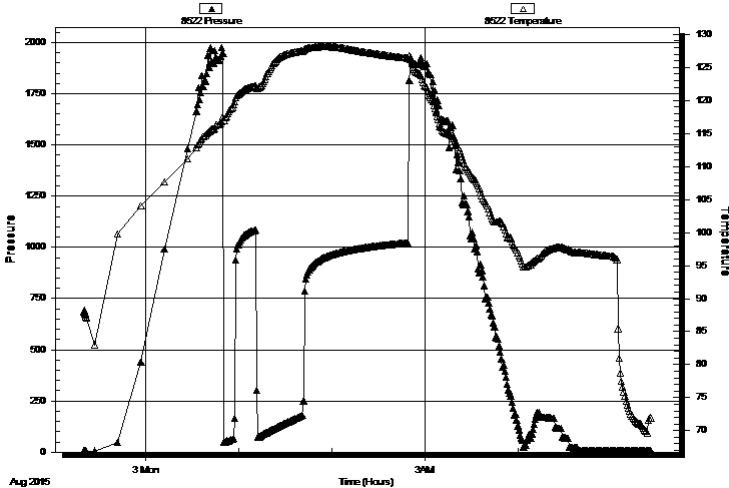
TEST COMMENT: IF: BOB @ 2.5 min.

IS: 1" return.

FF: BOB @ 2 min.

FS: 9" return.

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
90.00	gmco 30g 30m 40o	1.26
320.00	go 30g 70o	4.49
0.00	600' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61808

DST#: 2

ATTN: Tom Williams

Test Start: 2015.08.02 @ 23:20:00

Tool Information

Drill Pipe:	Length:	3966.00 ft	Diameter:	3.80 inches	Volume:	55.63 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	55.63 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		5.00 ft					String Weight: Initial	47000.00 lb
Depth to Top Packer:		3988.00 ft					Final	50000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		28.00 ft						
Tool Length:		55.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3962.00	
Shut In Tool	5.00			3967.00	
Hydraulic tool	5.00			3972.00	
Jars	5.00			3977.00	
Safety Joint	2.00			3979.00	
Packer	5.00			3984.00	27.00 Bottom Of Top Packer
Packer	4.00			3988.00	
Stubb	1.00			3989.00	
Recorder	0.00	8365	Inside	3989.00	
Recorder	0.00	8522	Outside	3989.00	
Perforations	24.00			4013.00	
Bullnose	3.00			4016.00	28.00 Bottom Packers & Anchor

Total Tool Length: 55.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61808

DST#: 2

ATTN: Tom Williams

Test Start: 2015.08.02 @ 23:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 7.79 in³

Resistivity: ohm.m

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

34 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	gmco 30g 30m 40o	1.262
320.00	go 30g 70o	4.489
0.00	600' GIP	0.000

Total Length: 410.00 ft

Total Volume: 5.751 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

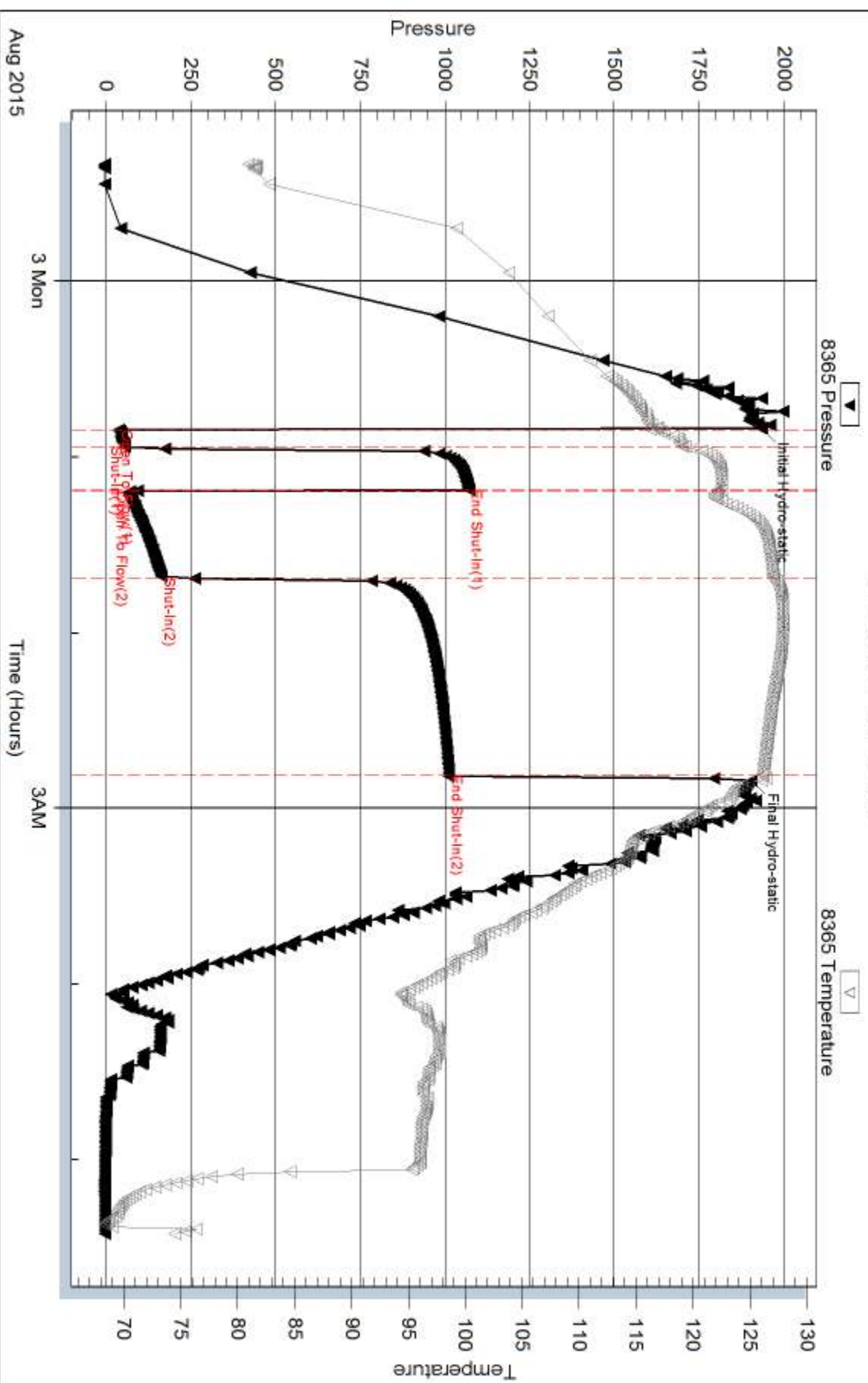
Inside

K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 61808

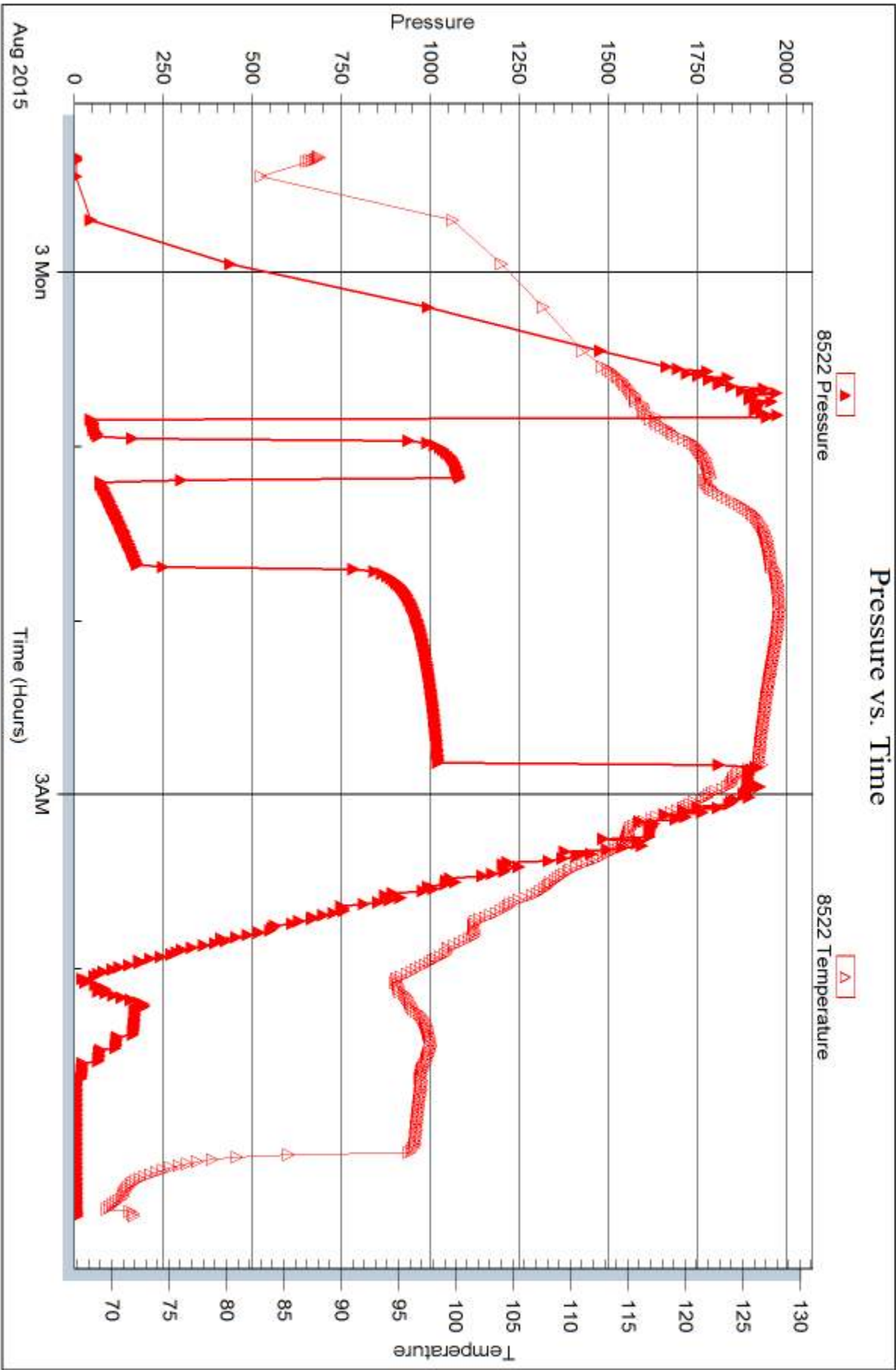
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Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205
Houston, TX 77073

ATTN: Tom Williams

Eaton #3-18

18-16s-28w Lane,KS

Start Date: 2015.08.03 @ 15:15:00

End Date: 2015.08.03 @ 20:08:00

Job Ticket #: 61809 DST #: 3

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

Printed: 2015.08.08 @ 09:55:51



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

18-16s-28w Lane, KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61809

DST#: 3

ATTN: Tom Williams

Test Start: 2015.08.03 @ 15:15:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:47:00

Time Test Ended: 20:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4050.00 ft (KB) To 4075.00 ft (KB) (TVD)

Total Depth: 4075.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2657.00 ft (KB)

2648.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 15.78 psig @ 4051.00 ft (KB)

Start Date: 2015.08.03

End Date:

2015.08.03

Start Time: 15:15:05

End Time:

20:07:59

Capacity: 8000.00 psig

Last Calib.: 2015.08.03

Time On Btm: 2015.08.03 @ 16:46:30

Time Off Btm: 2015.08.03 @ 18:51:45

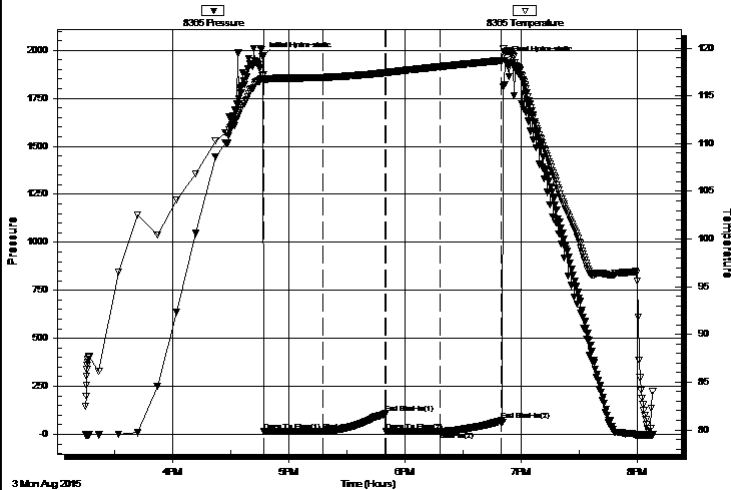
TEST COMMENT: IF: Surface blow .

IS: No return

FF: No blow .

FS: No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1969.22	117.14	Initial Hydro-static
1	13.62	116.47	Open To Flow (1)
32	14.88	116.94	Shut-In(1)
64	107.86	117.43	End Shut-In(1)
64	15.37	117.43	Open To Flow (2)
92	15.78	118.08	Shut-In(2)
124	70.84	118.71	End Shut-In(2)
126	1946.76	119.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



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DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

18-16s-28w Lane, KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61809

DST#: 3

ATTN: Tom Williams

Test Start: 2015.08.03 @ 15:15:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:47:00

Time Test Ended: 20:08:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4050.00 ft (KB) To 4075.00 ft (KB) (TVD)

Total Depth: 4075.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2657.00 ft (KB)

2648.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8522 Outside

Press@RunDepth: psig @ 4051.00 ft (KB)

Start Date: 2015.08.03

End Date:

2015.08.03

Start Time: 15:15:05

End Time:

20:07:59

Capacity: 8000.00 psig

Last Calib.: 2015.08.03

Time On Btm:

Time Off Btm:

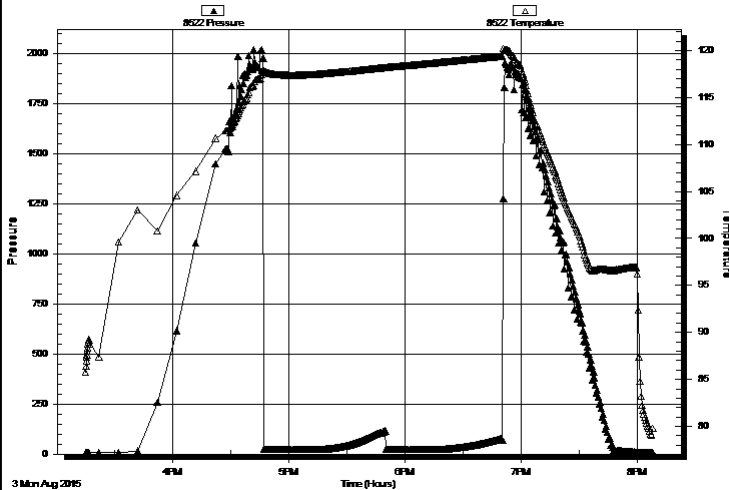
TEST COMMENT: IF: Surface blow .

IS: No return

FF: No blow .

FS: No return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61809

DST#: 3

ATTN: Tom Williams

Test Start: 2015.08.03 @ 15:15:00

Tool Information

Drill Pipe:	Length:	4028.00 ft	Diameter:	3.80 inches	Volume:	56.50 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	56.50 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		5.00 ft					String Weight: Initial	49000.00 lb
Depth to Top Packer:		4050.00 ft					Final	49000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		25.00 ft						
Tool Length:		52.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00		4024.00	
Shut In Tool	5.00		4029.00	
Hydraulic tool	5.00		4034.00	
Jars	5.00		4039.00	
Safety Joint	2.00		4041.00	
Packer	5.00		4046.00	27.00 Bottom Of Top Packer
Packer	4.00		4050.00	
Stubb	1.00		4051.00	
Recorder	0.00	8365 Inside	4051.00	
Recorder	0.00	8522 Outside	4051.00	
Perforations	21.00		4072.00	
Bullnose	3.00		4075.00	25.00 Bottom Packers & Anchor

Total Tool Length: 52.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61809

DST#: 3

ATTN: Tom Williams

Test Start: 2015.08.03 @ 15:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 32000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m (oil spots)	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

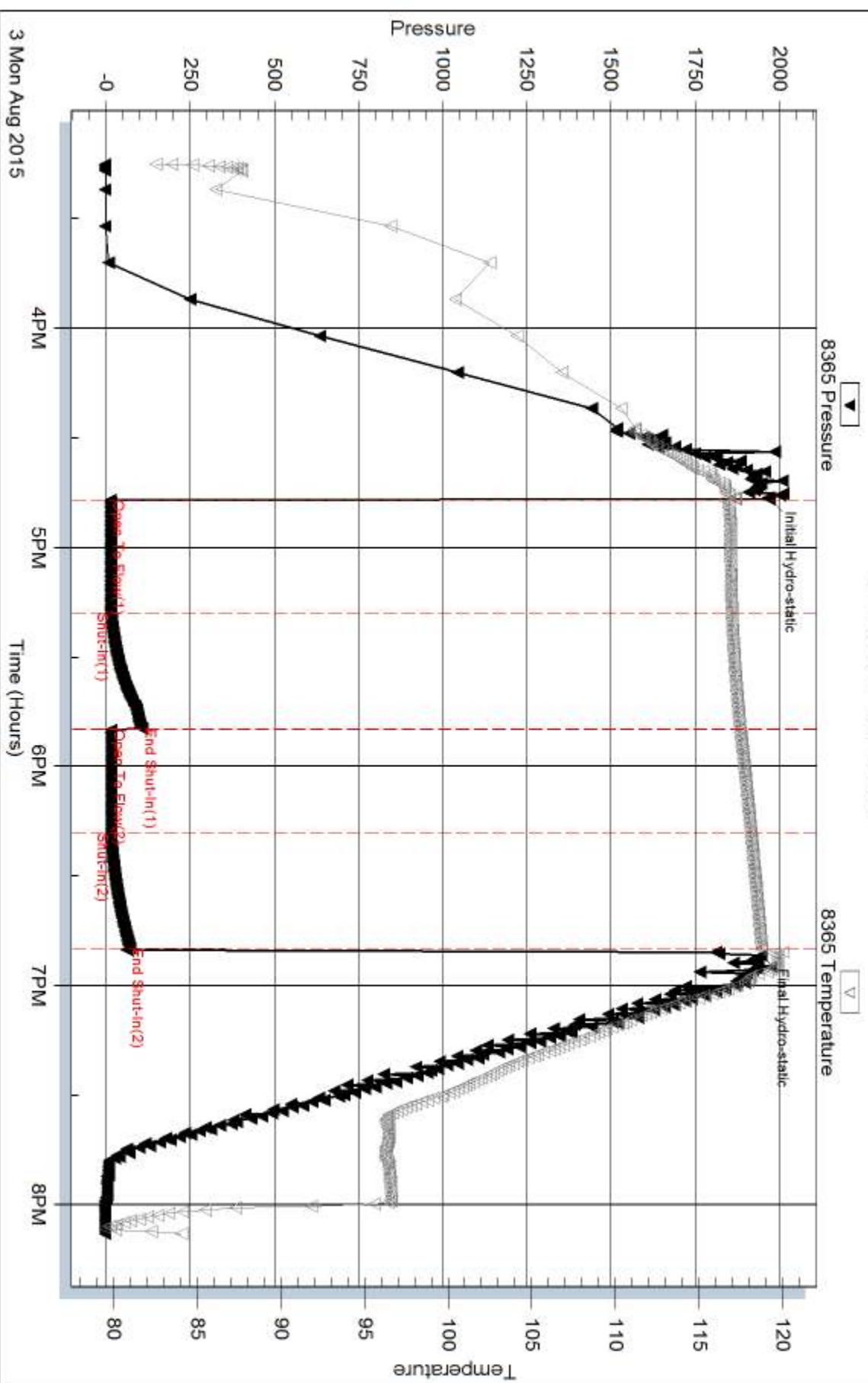
Inside

K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 3

Pressure vs. Time

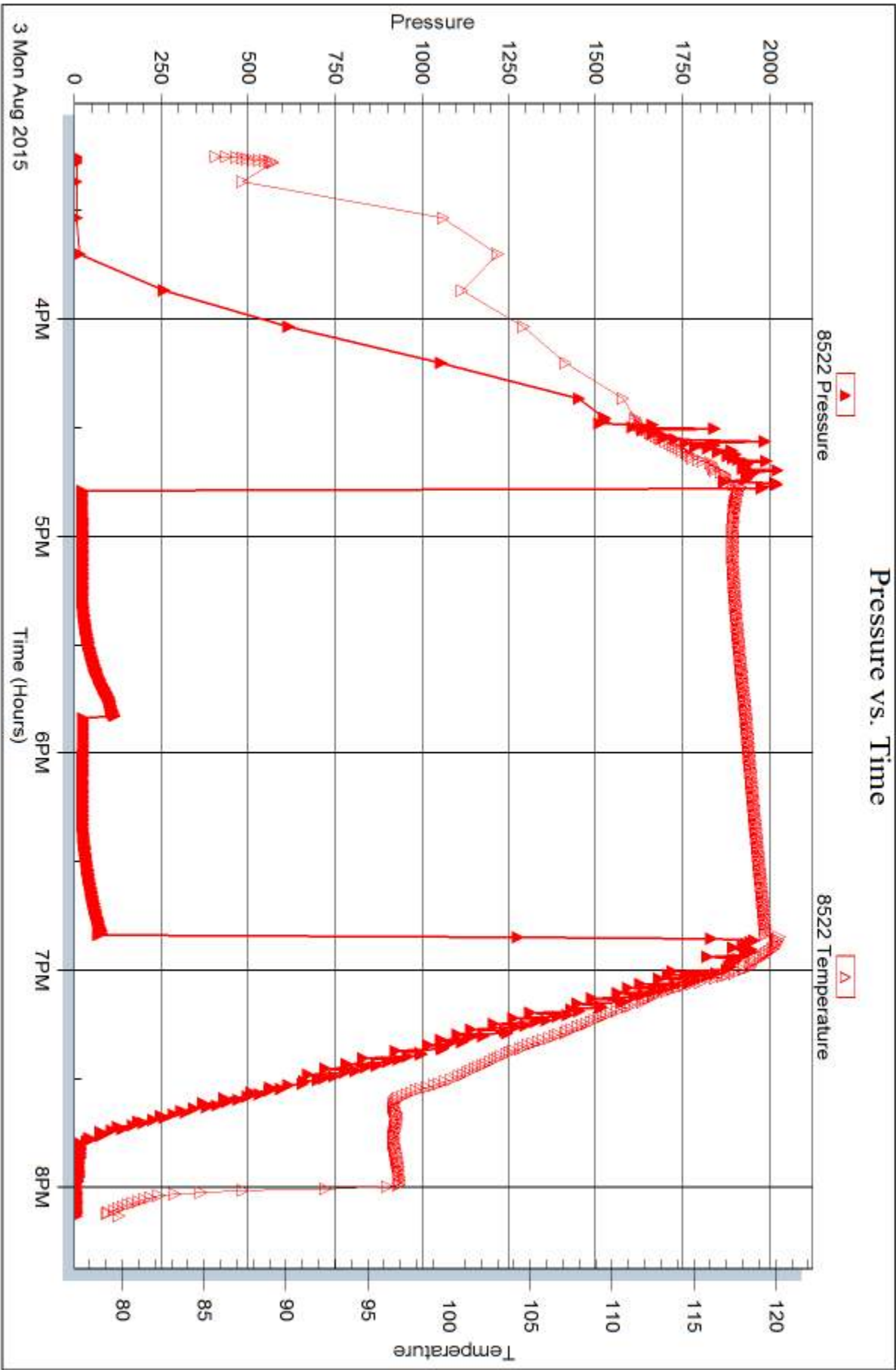


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205
Houston, TX 77073

ATTN: Tom Williams

Eaton #3-18

18-16s-28w Lane,KS

Start Date: 2015.08.04 @ 04:20:00

End Date: 2015.08.04 @ 11:28:00

Job Ticket #: 61810 DST #: 4

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

Printed: 2015.08.08 @ 09:55:29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

18-16s-28w Lane, KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61810

DST#: 4

ATTN: Tom Williams

Test Start: 2015.08.04 @ 04:20:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:49:00

Time Test Ended: 11:28:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4070.00 ft (KB) To 4110.00 ft (KB) (TVD)

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4070.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 22.78 psig @ 4071.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.04

End Date:

2015.08.04

Last Calib.: 2015.08.04

Start Time: 04:20:05

End Time:

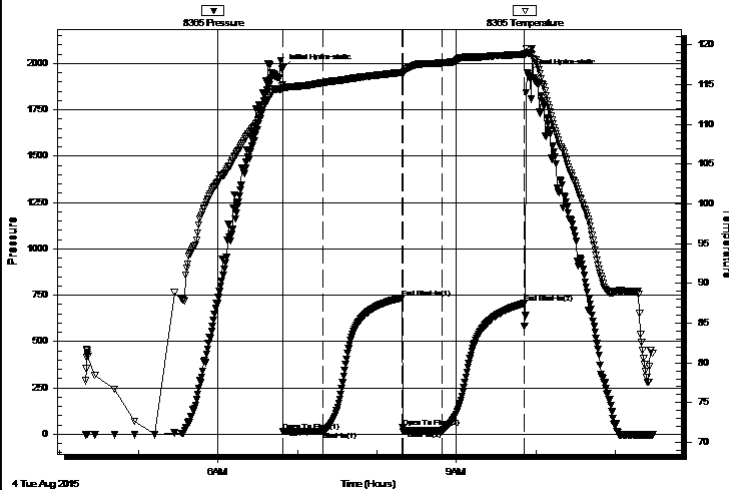
11:27:59

Time On Btm: 2015.08.04 @ 06:48:45

Time Off Btm: 2015.08.04 @ 09:53:45

TEST COMMENT: IF: 3" blow.
IS: No return.
FF: 4" blow.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.85	114.98	Initial Hydro-static
1	15.67	114.37	Open To Flow (1)
31	15.98	115.26	Shut-In(1)
91	736.06	116.55	End Shut-In(1)
91	35.62	116.31	Open To Flow (2)
120	22.78	117.73	Shut-In(2)
183	705.69	118.84	End Shut-In(2)
185	1944.21	119.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 30o 70m	0.42
0.00	90" GIP	0.00

Gas Rates

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

* Recovery from multiple tests



Test Start: 2015.08.04 @ 04:20:00

KB to GR/CF: 9.00 ft

Time Off Btm:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61810

DST#: 4

ATTN: Tom Williams

Test Start: 2015.08.04 @ 04:20:00

Tool Information

Drill Pipe:	Length:	4050.00 ft	Diameter:	3.80 inches	Volume:	56.81 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	56.81 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		7.00 ft					String Weight: Initial	49000.00 lb
Depth to Top Packer:		4070.00 ft					Final	49000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		30.00 ft						
Tool Length:		57.00 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			4044.00	
Shut In Tool	5.00			4049.00	
Hydraulic tool	5.00			4054.00	
Jars	5.00			4059.00	
Safety Joint	2.00			4061.00	
Packer	5.00			4066.00	27.00 Bottom Of Top Packer
Packer	4.00			4070.00	
Stubb	1.00			4071.00	
Recorder	0.00	8365	Inside	4071.00	
Recorder	0.00	8522	Outside	4071.00	
Perforations	26.00			4097.00	
Bullnose	3.00			4100.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61810

DST#: 4

ATTN: Tom Williams

Test Start: 2015.08.04 @ 04:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 30o 70m	0.421
0.00	90" GIP	0.000

Total Length: 30.00 ft

Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

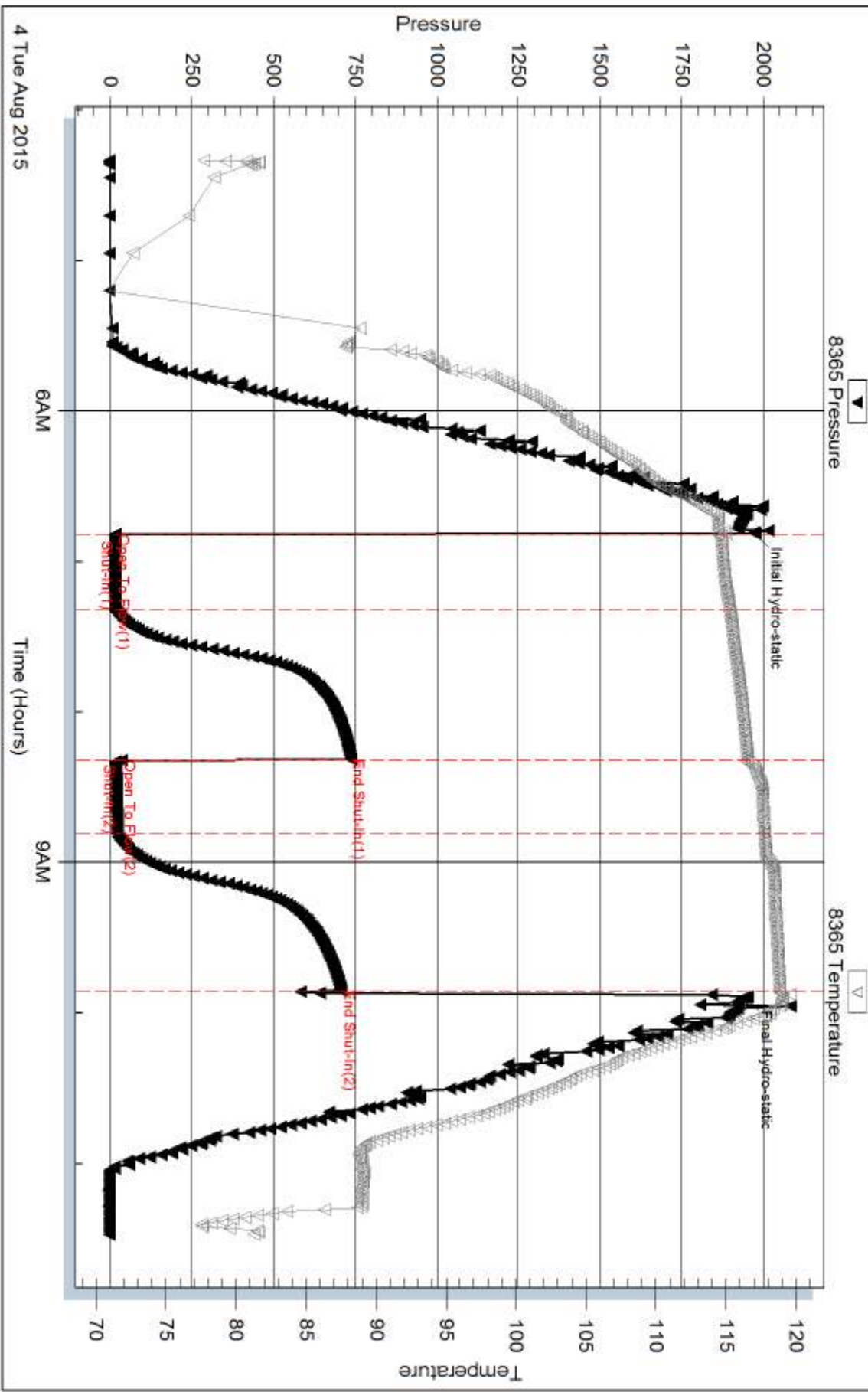
Inside

K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 4

Pressure vs. Time

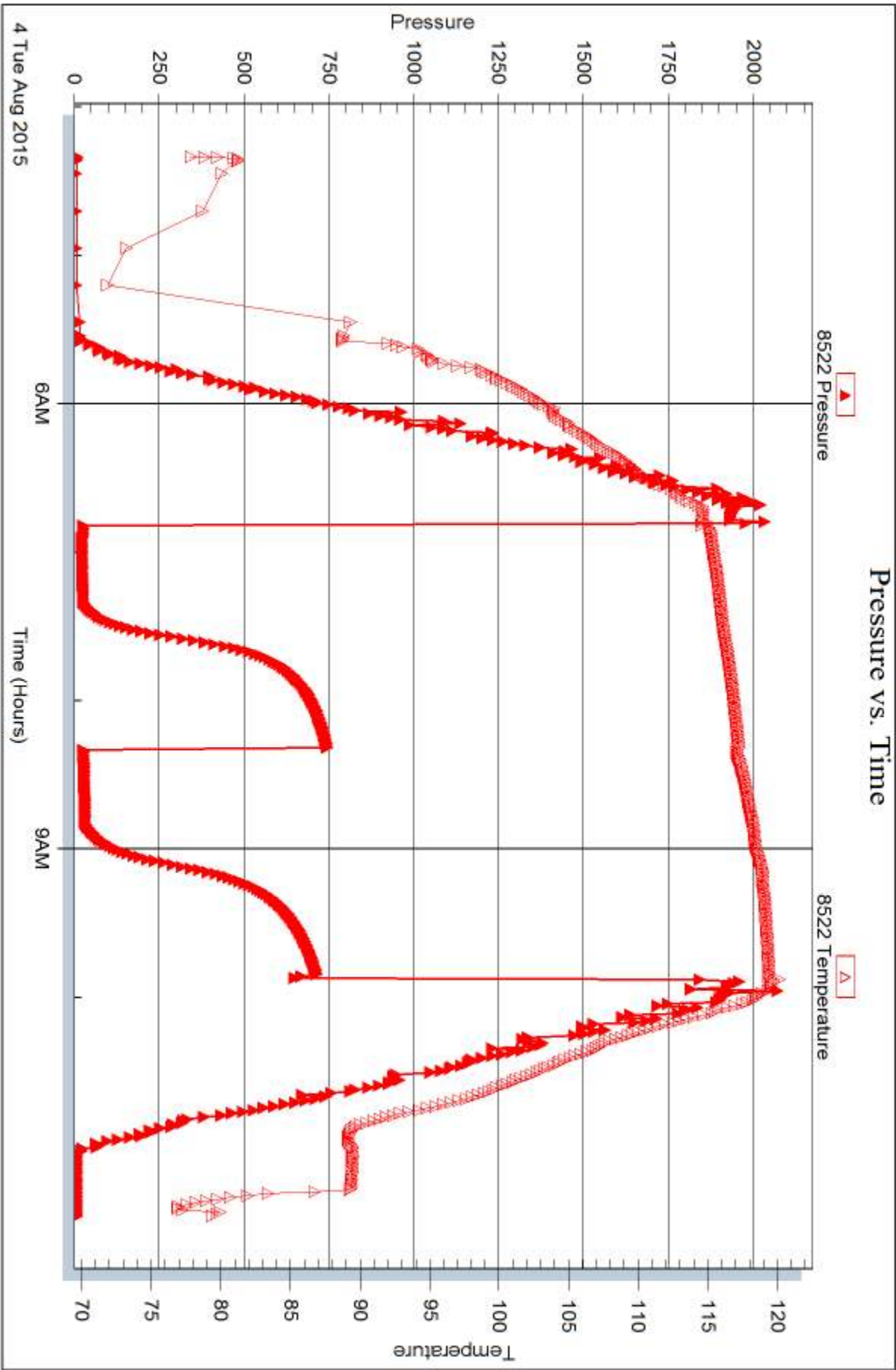


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205
Houston, TX 77073

ATTN: Tom Williams

Eaton #3-18

18-16s-28w Lane,KS

Start Date: 2015.08.04 @ 22:41:00

End Date: 2015.08.05 @ 05:41:15

Job Ticket #: 61811 DST #: 5

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

Printed: 2015.08.08 @ 09:55:04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

18-16s-28w Lane, KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61811

DST#: 5

ATTN: Tom Williams

Test Start: 2015.08.04 @ 22:41:00

GENERAL INFORMATION:

Formation: **Marmaton - Lenapah**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:31:15

Time Test Ended: 05:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4146.00 ft (KB) To 4184.00 ft (KB) (TVD)

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4186.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 20.97 psig @ 4147.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.04

End Date:

2015.08.05

Last Calib.: 2015.08.05

Start Time: 22:41:05

End Time:

05:41:14

Time On Btm: 2015.08.05 @ 00:31:00

Time Off Btm: 2015.08.05 @ 03:39:00

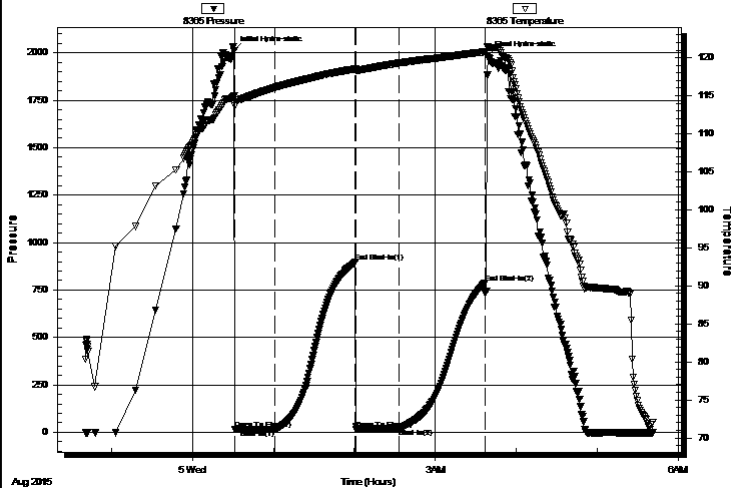
TEST COMMENT: IF: 3 1/2 Inches blow .

IS: No return.

FF: 5" blow .

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.79	115.03	Initial Hydro-static
1	16.07	113.64	Open To Flow (1)
30	16.42	116.08	Shut-In(1)
90	897.49	118.52	End Shut-In(1)
91	15.94	118.38	Open To Flow (2)
122	20.97	119.28	Shut-In(2)
186	786.69	120.77	End Shut-In(2)
188	1986.55	121.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 25o 75m	0.42
0.00	no gassy odor	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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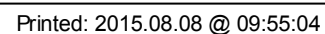
* Recovery from multiple tests



Test Start: 2015.08.04 @ 22:41:00

KB to GR/CF: 9.00 ft

FSI: No return.





TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61811

DST#: 5

ATTN: Tom Williams

Test Start: 2015.08.04 @ 22:41:00

Tool Information

Drill Pipe:	Length:	4125.00 ft	Diameter:	3.80 inches	Volume:	57.86 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	57.86 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		6.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4146.00 ft					Final	50000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		38.00 ft						
Tool Length:		65.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4120.00	
Shut In Tool	5.00			4125.00	
Hydraulic tool	5.00			4130.00	
Jars	5.00			4135.00	
Safety Joint	2.00			4137.00	
Packer	5.00			4142.00	27.00 Bottom Of Top Packer
Packer	4.00			4146.00	
Stubb	1.00			4147.00	
Recorder	0.00	8365	Inside	4147.00	
Recorder	0.00	8522	Outside	4147.00	
Perforations	34.00			4181.00	
Bullnose	3.00			4184.00	38.00 Bottom Packers & Anchor

Total Tool Length: 65.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61811

DST#: 5

ATTN: Tom Williams

Test Start: 2015.08.04 @ 22:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 8.39 in³

Resistivity: ohm.m

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 25o 75m	0.421
0.00	no gassy odor	0.000

Total Length: 30.00 ft

Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

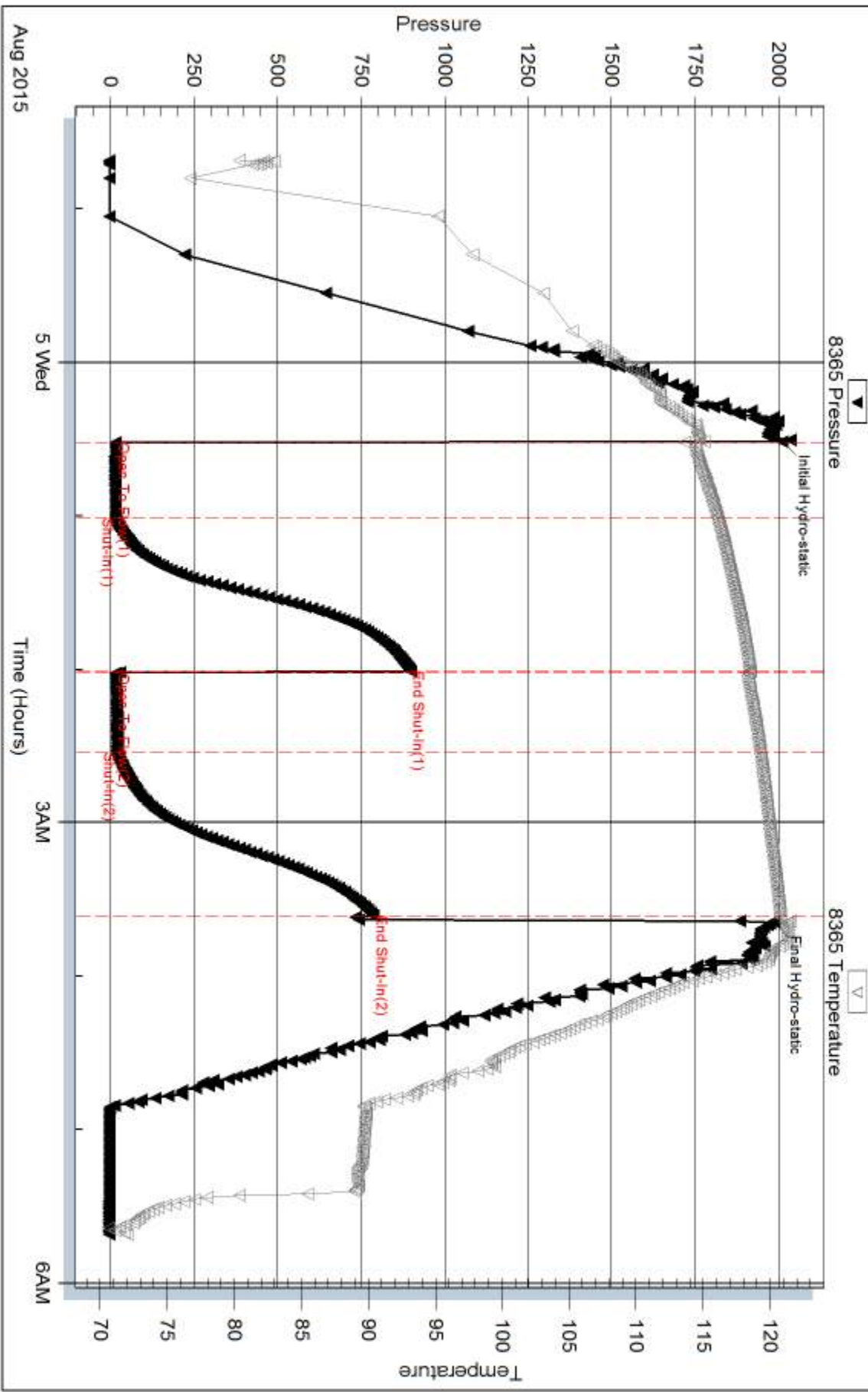
Inside

K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 5

Pressure vs. Time

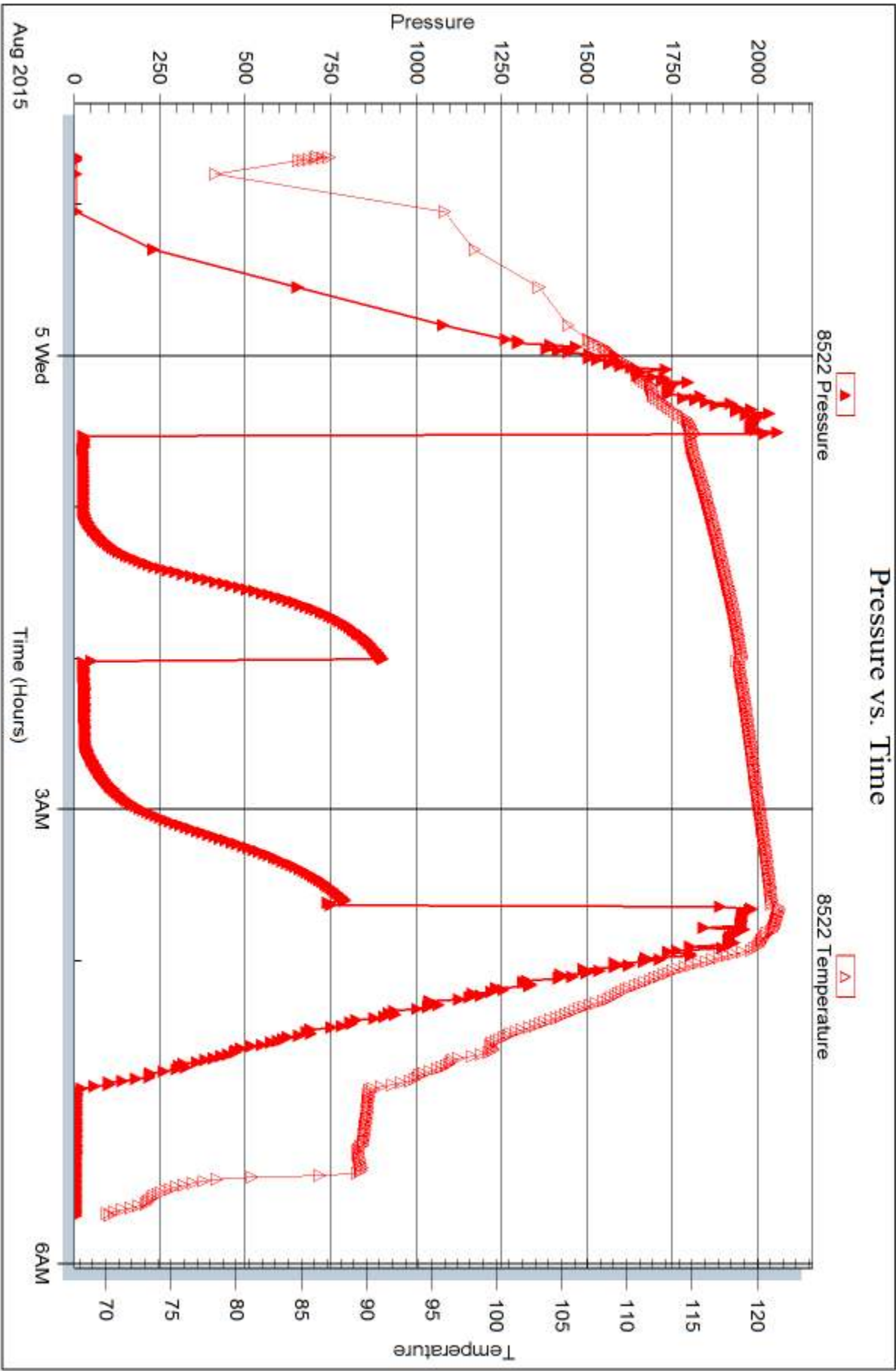


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **K3 Oil & Gas Operating Co**

211 Highland Cross Ste 205
Houston, TX 77073

ATTN: Tom Williams

Eaton #3-18

18-16s-28w Lane,KS

Start Date: 2015.08.05 @ 21:31:00

End Date: 2015.08.06 @ 03:18:15

Job Ticket #: 61812 DST #: 6

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

Printed: 2015.08.08 @ 09:20:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

211 Highland Cross Ste 205
Houston, TX 77073

ATTN: Tom Williams

18-16s-28w Lane, KS

Eaton #3-18

Job Ticket: 61812

DST#: 6

Test Start: 2015.08.05 @ 21:31:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:04:45

Time Test Ended: 03:18:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4312.00 ft (KB) To 4350.00 ft (KB) (TVD)

Total Depth: 4350.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2657.00 ft (KB)

2648.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8365 Inside

Press@RunDepth: 15.49 psig @ 4313.00 ft (KB)

Start Date: 2015.08.05

End Date:

2015.08.06

Start Time: 21:31:05

End Time:

03:18:14

Capacity: 8000.00 psig

Last Calib.: 2015.08.06

Time On Btm: 2015.08.05 @ 23:04:30

Time Off Btm: 2015.08.06 @ 01:18:30

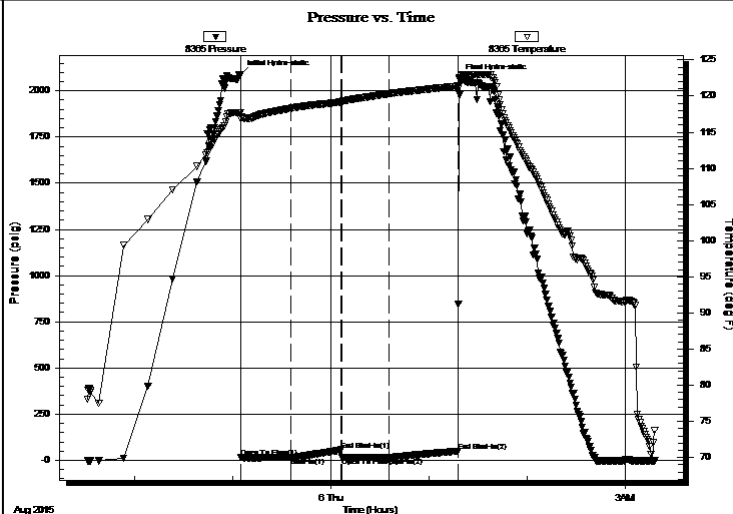
TEST COMMENT: IF: Weak surface blow .

IS: No return.

FF: No blow .

FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.37	117.72	Initial Hydro-static
1	14.75	116.79	Open To Flow (1)
31	15.03	118.30	Shut-In(1)
62	56.02	119.18	End Shut-In(1)
63	15.40	119.21	Open To Flow (2)
91	15.49	120.31	Shut-In(2)
134	49.54	121.37	End Shut-In(2)
134	2063.53	122.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m (oil spots)	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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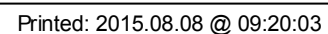
* Recovery from multiple tests



Test Start: 2015.08.05 @ 21:31:00

KB to GR/CF: 9.00 ft

FSI: No return.





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61812

DST#: 6

ATTN: Tom Williams

Test Start: 2015.08.05 @ 21:31:00

Tool Information

Drill Pipe:	Length:	4312.00 ft	Diameter:	3.80 inches	Volume:	60.49 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	60.49 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		27.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4312.00 ft					Final	50000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		38.00 ft						
Tool Length:		65.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4286.00	
Shut In Tool	5.00			4291.00	
Hydraulic tool	5.00			4296.00	
Jars	5.00			4301.00	
Safety Joint	2.00			4303.00	
Packer	5.00			4308.00	27.00 Bottom Of Top Packer
Packer	4.00			4312.00	
Stubb	1.00			4313.00	
Recorder	0.00	8365	Inside	4313.00	
Recorder	0.00	8522	Outside	4313.00	
Perforations	34.00			4347.00	
Bullnose	3.00			4350.00	38.00 Bottom Packers & Anchor

Total Tool Length: 65.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K3 Oil & Gas Operating Co

18-16s-28w Lane,KS

211 Highland Cross Ste 205
Houston, TX 77073

Eaton #3-18

Job Ticket: 61812

DST#: 6

ATTN: Tom Williams

Test Start: 2015.08.05 @ 21:31:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

0 deg API

0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m (oil spots)	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

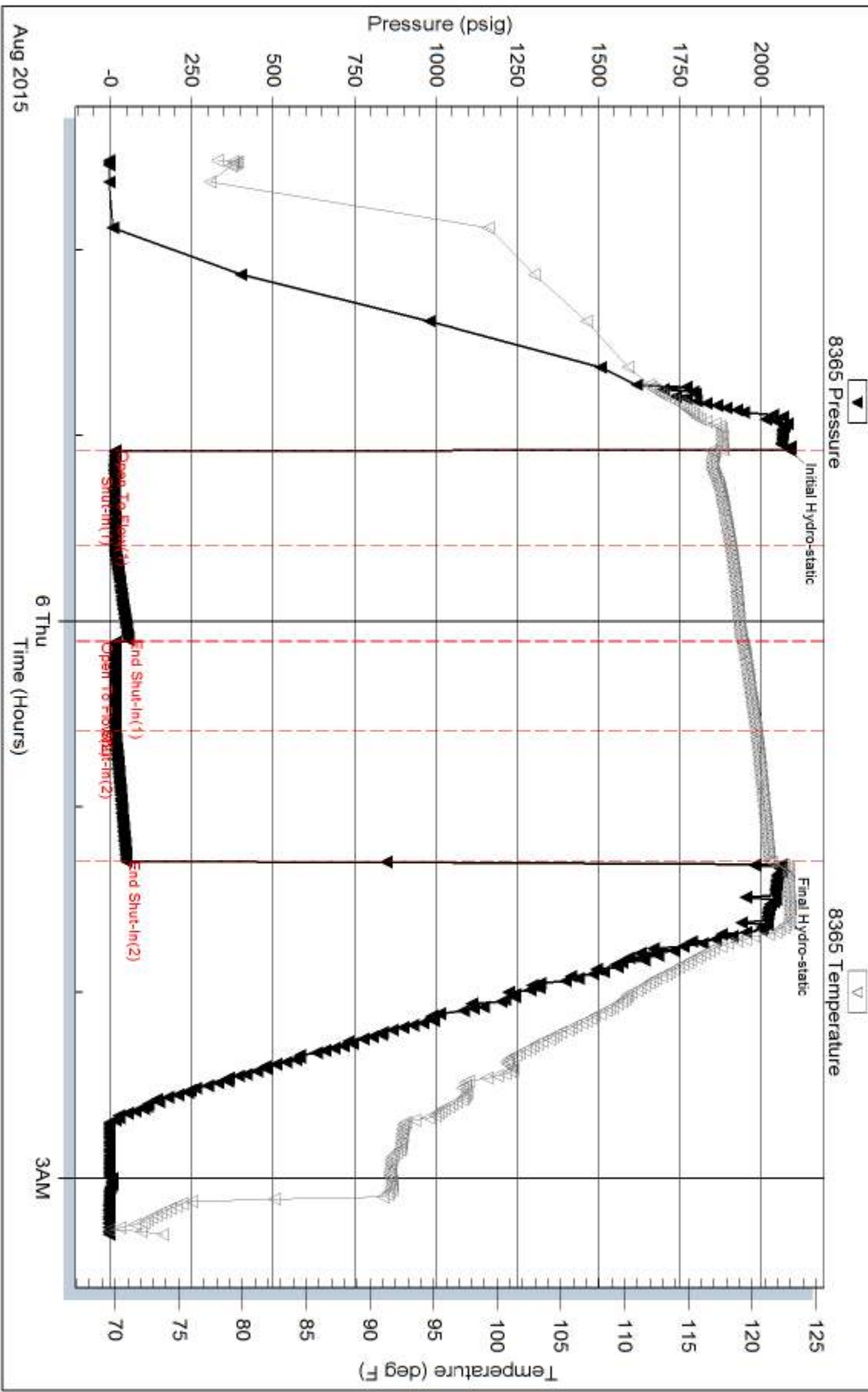
Inside

K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 6

Pressure vs. Time

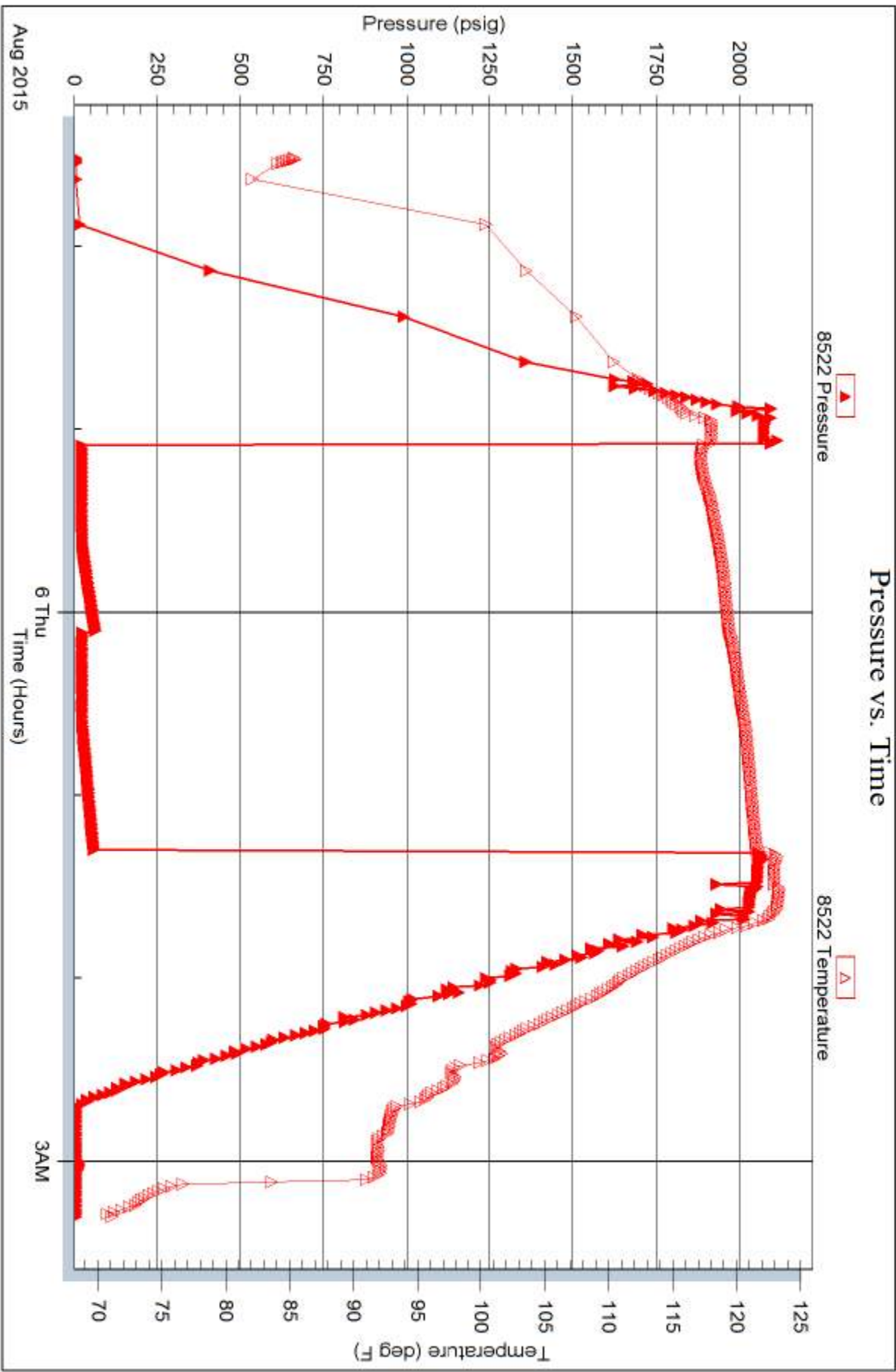


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61827

Well Name & No. Eaton #3-18 Test No. 1 Date 2/02/2015
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL
 Address 211 Highland Cross Ste 205 Houston, TX 77023
 Co. Rep / Geo. Tom Williams Rig Duke 4
 Location: Sec. 18 Twp. 16s Rge. 28w Co. Lanc State KZ

Interval Tested 3907-3926 Zone Tested LKC 'F'
 Anchor Length 19 Drill Pipe Run 3903 Mud Wt. 9.1
 Top Packer Depth 3902 Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3907 Wt. Pipe Run 0 WL 7.8
 Total Depth 3926 Chlorides 2600 ppm System LCM 2#
 Blow Description IF: BOB @ 4 min
ISI: 4" return
FF: BOB @ 9 min
FSI: 5" return

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>60</u>	<u>15</u>	<u>85</u>		
<u>60</u>	<u>60 mco</u>	<u>5</u>	<u>45</u>	<u>10</u>	<u>20</u>
	<u>370' GIP</u>				

Rec Total 250 BHT 123 Gravity 37 API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 1916 ☒ Test 1050 T-On Location 2245 08/01
 (B) First Initial Flow 33 ☒ Jars 250 T-Started 2327
 (C) First Final Flow 61 ☒ Safety Joint 75 T-Open 0144
 (D) Initial Shut-In 809 ☒ Circ Sub N/C T-Pulled 0444
 (E) Second Initial Flow 71 ☐ Hourly Standby — T-Out 0716
 (F) Second Final Flow 104 ☒ Mileage 76K Comments —
 (G) Final Shut-In 719 ☐ Sampler —
 (H) Final Hydrostatic 1878 ☐ Straddle —
☐ Shale Packer —
☐ Extra Packer —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —

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

☐ Ruined Shale Packer —
☐ Ruined Packer —
☐ Extra Copies —
 Sub Total 0
 Total 1451
 MP/DST Disc't —
 Sub Total 1451

Approved By —

Our Representative —

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. 61808

Well Name & No. Eaton #3-18 Test No. 2 Date 8/03/2015
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL
 Address 211 Highland Cross Ste 205 Houston Tx 77073
 Co. Rep / Geo. Tom Williams Rig Duke #4
 Location: Sec. 18 Twp. 16S Rge. 28 W Co. Lane State Ks

Interval Tested 3988 - 4016 Zone Tested LKC - H'
 Anchor Length 28' Drill Pipe Run 3966 Mud Wt. 9.1
 Top Packer Depth 3983 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 3988 Wt. Pipe Run 0 WL 7.8
 Total Depth 4016 Chlorides 2700 ppm System LCM 2#

Blow Description IF : BOB @ 2 1/2 min.
5F : 1" return
FF : BOB @ 2 min.
FSI : 9" return

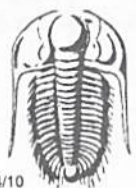
Rec	Feet of	%gas	%oil	%water	%mud
320	60	30	70		
50	6 mco	30	40		30
	600' GIP				

Rec Total 410 BHT 126 Gravity 34 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>1935</u>	☒ Test	<u>1150</u>	T-On Location	<u>2315</u>
(B) First Initial Flow	<u>38</u>	☒ Jars	<u>250</u>	T-Started	<u>2326</u>
(C) First Final Flow	<u>57</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>0055</u>
(D) Initial Shut-In	<u>1072</u>	☒ Circ Sub	<u>NC</u>	T-Pulled	<u>0245</u>
(E) Second Initial Flow	<u>71</u>	☐ Hourly Standby		T-Out	<u>0525</u>
(F) Second Final Flow	<u>165</u>	☒ Mileage	<u>76 RT</u>	Comments	
(G) Final Shut-In	<u>1012</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1904</u>	☐ Straddle			

Initial Open	<u>9</u>	☐ Shale Packer		☐ Ruined Shale Packer	
Initial Shut-In	<u>15</u>	☐ Extra Packer		☐ Ruined Packer	
Final Flow	<u>30</u>	☐ Extra Recorder		☐ Extra Copies	
Final Shut-In	<u>60</u>	☐ Day Standby		Sub Total	<u>0</u>
		☐ Accessibility		Total	<u>1551</u>
		Sub Total	<u>1551</u>	MP/DST Disc't	

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**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **61809**

Well Name & No. Faton #3-18 Test No. 3 Date 8/03/2015
Company K3 Oil & Gas Operations Co. Elevation 2657 KB 2648 GL
Address 211 Highland Cross Ste 205 Houston Tx 77073
Co. Rep / Geo. Tom Williams Rig Duke 4
Location: Sec. 18 Twp. 16S Rge. 28W Co. Lane State KS

Interval Tested 4050 - 4075 Zone Tested LKC J
Anchor Length 25 Drill Pipe Run 4028 Mud Wt. 9.0
Top Packer Depth 4045 Drill Collars Run 0 Vis 56
Bottom Packer Depth 4050 Wt. Pipe Run 0 WL 8.0
Total Depth 4075 Chlorides 3200 ppm System LCM 2nd

Blow Description IF ! Surface blow
ISI ! No return
PF ! No blow
FST ! No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud Core S&S</u>			<u>100</u>	

Rec Total 5 BHT 119 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	(B) First Initial Flow	(C) First Final Flow	(D) Initial Shut-In	(E) Second Initial Flow	(F) Second Final Flow	(G) Final Shut-In	(H) Final Hydrostatic
<u>1969</u>	<u>14</u>	<u>15</u>	<u>108</u>	<u>15</u>	<u>16</u>	<u>71</u>	<u>1947</u>

☒ Test 1150
☒ Jars 250
☒ Safety Joint 75
☒ Circ Sub NK
☐ Hourly Standby
☒ Mileage 26 RT
☐ Sampler
☐ Straddle
☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility

T-On Location 1500
T-Started 1515
T-Open 1642
T-Pulled 1842
T-Out 2008
Comments
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1551
MP/DST Disc't

Initial Open 30
Initial Shut-In 30
Final Flow 30
Final Shut-In 30
Sub Total 1551

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61810

Well Name & No. Eaton #3-18 Test No. 4 Date 8/04/2015
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL
 Address 211 Highland Cross Ste 205 Houston, Tx 77073
 Co. Rep / Geo. Tom Williams Rig Duke #4
 Location: Sec. 18 Twp. 16S Rge. 28W Co. Lane State Ks

Interval Tested 4050 - 4110 Zone Tested LKC - K
 Anchor Length 30 Drill Pipe Run 4050 Mud Wt. 9.1
 Top Packer Depth 4065 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 4070 Wt. Pipe Run 0 WL 80
 Total Depth 4110 Chlorides 3200 ppm System LCM 2nd

Blow Description IF: 3" blow.
ISI: No return.
FF: 4" blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>OCM</u>		<u>30</u>	<u>70</u>	
	<u>90' GIP</u>				

Rec Total 30 BHT 119 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 1975 ☒ Test 1150 T-On Location 0400
 (B) First Initial Flow 16 ☒ Jars 250 T-Started 0420
 (C) First Final Flow 16 ☒ Safety Joint 75 T-Open 0649
 (D) Initial Shut-In 736 ☒ Circ Sub NK T-Pulled 0949
 (E) Second Initial Flow 36 ☐ Hourly Standby — T-Out 1128
 (F) Second Final Flow 23 ☒ Mileage 76RT Comments —
 (G) Final Shut-In 706 ☐ Sampler —
 (H) Final Hydrostatic 1944 ☐ Straddle —

☐ Ruined Shale Packer —
☐ Ruined Packer —
☐ Extra Copies —
 Sub Total 0
 Total 1551
 MP/DST Disc't —
 Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
☐ Shale Packer —
☐ Extra Packer —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —
 Sub Total 1551

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61811

Well Name & No. Eaton #3-18 Test No. 5 Date 8/05/2015
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL
 Address 211 Highland Cross Ste 205 Houston, Tx 77073
 Co. Rep / Geo. Tom Williams Rig Dike 4
 Location: Sec. 18 Twp. 16S Rge. 28W Co. Lane State Ks

Interval Tested 2652 4146-4184 Zone Tested Marmaton-Lenapah
 Anchor Length 38 Drill Pipe Run 4125 Mud Wt. 9.0
 Top Packer Depth 4141 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4146 Wt. Pipe Run 0 WL 8.4
 Total Depth 4184 Chlorides 2800 ppm System LCM 1#

Blow Description IR 3 1/2" blow
ISI No return
FF 5" blow
PSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>0cm</u>	<u>25</u>		<u>75</u>	
	<u>No gas detected</u>				

Rec Total 30 BHT 121 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	<u>2011</u>	☒ Test	<u>1150</u>	T-On Location	<u>2200</u>
(B) First Initial Flow	<u>16</u>	☒ Jars	<u>250</u>	T-Started	<u>2220</u>
(C) First Final Flow	<u>16</u>	☒ Safety Joint	<u>75</u>	T-Open	<u>0031</u>
(D) Initial Shut-In	<u>897</u>	☒ Circ Sub	<u>N/L</u>	T-Pulled	<u>0351</u>
(E) Second Initial Flow	<u>16</u>	☐ Hourly Standby		T-Out	<u>0541</u>
(F) Second Final Flow	<u>21</u>	☒ Mileage	<u>76 RT</u>	Comments	
(G) Final Shut-In	<u>787</u>	☐ Sampler			
(H) Final Hydrostatic	<u>1987</u>	☐ Straddle			
		☐ Shale Packer		☐ Ruined Shale Packer	
Initial Open	<u>30</u>	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	<u>60</u>	☐ Extra Recorder		☐ Extra Copies	
Final Flow	<u>30</u>	☐ Day Standby		Sub Total	<u>0</u>
Final Shut-In	<u>60</u>	☐ Accessibility		Total	<u>1551</u>
		Sub Total	<u>1551</u>	MP/DST Disc't	

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61812

Well Name & No. Eaton #3-18 Test No. 6 Date 8/06/2015
 Company K3 Oil & Gas Operating Co Elevation 2657 KB 2648 GL
 Address 24 Highland Cross Ste 205 Houston, Tx 77023
 Co. Rep / Geo. Tom Williams Rig Duke #4
 Location: Sec. 18 Twp. 16S Rge. 28W Co. Lane State Ks

Interval Tested 4312 4350 Zone Tested Ft. Scott
 Anchor Length 38 Drill Pipe Run 4312 Mud Wt. 9.0
 Top Packer Depth 4308 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 4312 Wt. Pipe Run 0 WL 9.6
 Total Depth 4350 Chlorides 4100 ppm System LCM 1#

Blow Description TF Weat surface blow.
TSF No return.
FF No blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUP (OIL SPOTS)</u>			<u>100</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 5 BHT 121 Gravity — API RW — @ — °F Chlorides 2100 ppm
 (A) Initial Hydrostatic 2087 ☒ Test 1150 T-On Location 2100
 (B) First Initial Flow 15 ☒ Jars 250 T-Started 2131
 (C) First Final Flow 15 ☒ Safety Joint 75 T-Open 2306 8/05
 (D) Initial Shut-In 54 ☒ Circ Sub 4/c T-Pulled 0106
 (E) Second Initial Flow 15 ☐ Hourly Standby — T-Out 0318
 (F) Second Final Flow 15 ☒ Mileage 76 RT Comments —
 (G) Final Shut-In 50 ☐ Sampler —
 (H) Final Hydrostatic 2064 ☐ Straddle —
☐ Shale Packer —
☐ Extra Packer —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Sub Total 1551

☐ Ruined Shale Packer —
☐ Ruined Packer —
☐ Extra Copies —
 Sub Total 0
 Total 1551

MP/DST Disc't —

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