



## 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

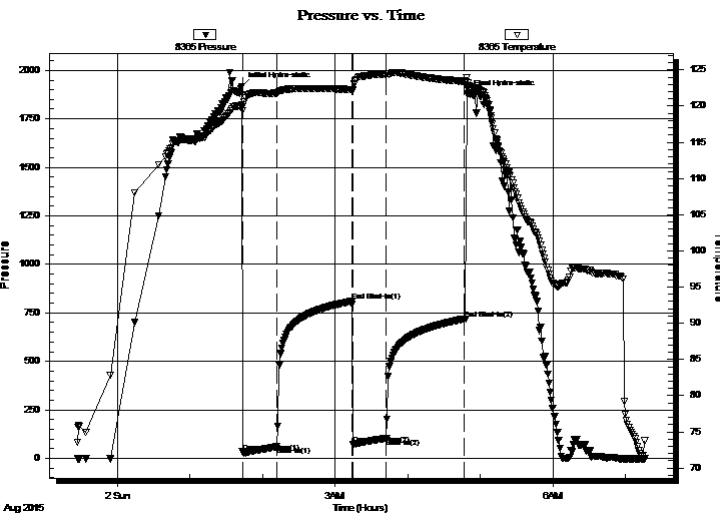
End Time:

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 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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**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 #: 8522** Outside

Press@RunDepth: 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:

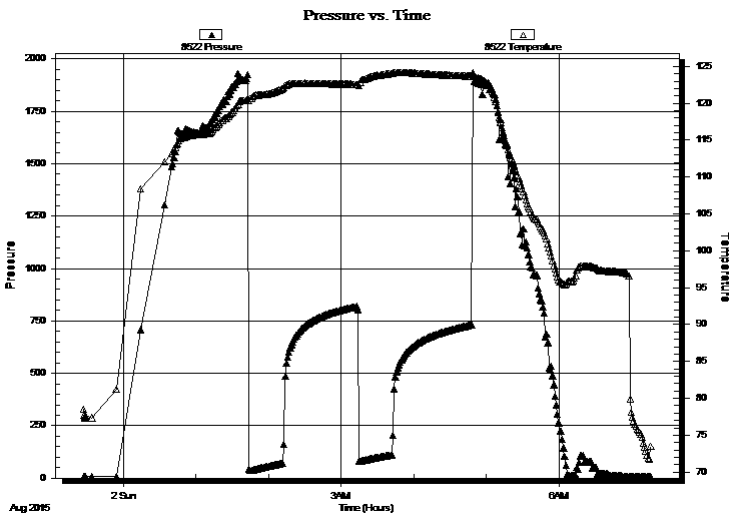
07:15:59

Time On Btm:

Time Off Btm:

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

## PRESSURE SUMMARY



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

## Recovery

## Gas Rates

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

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



**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
			<u>Total Volume: 54.75 bbl</u>	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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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**



**TRILOBITE  
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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

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

### 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

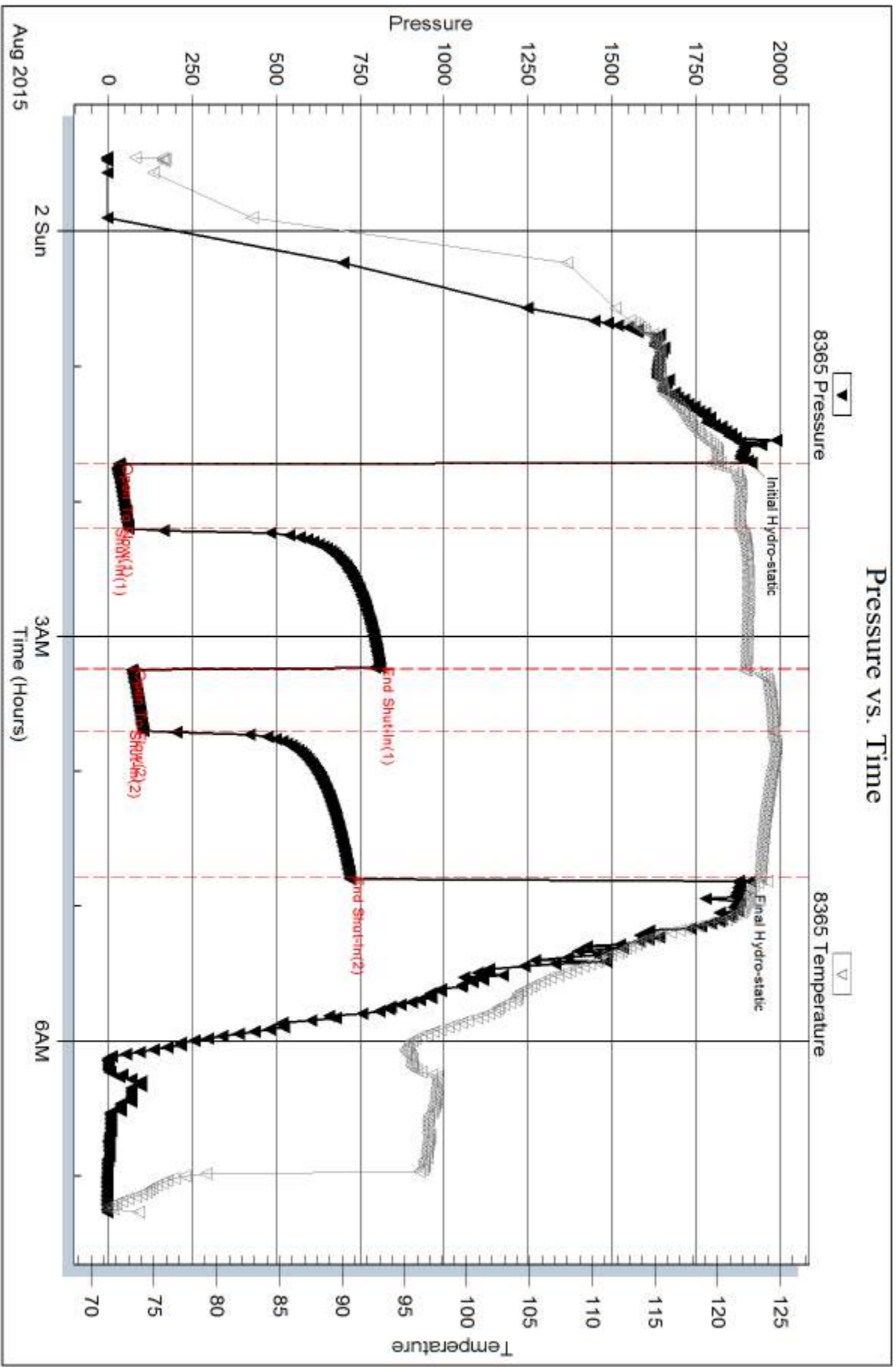
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

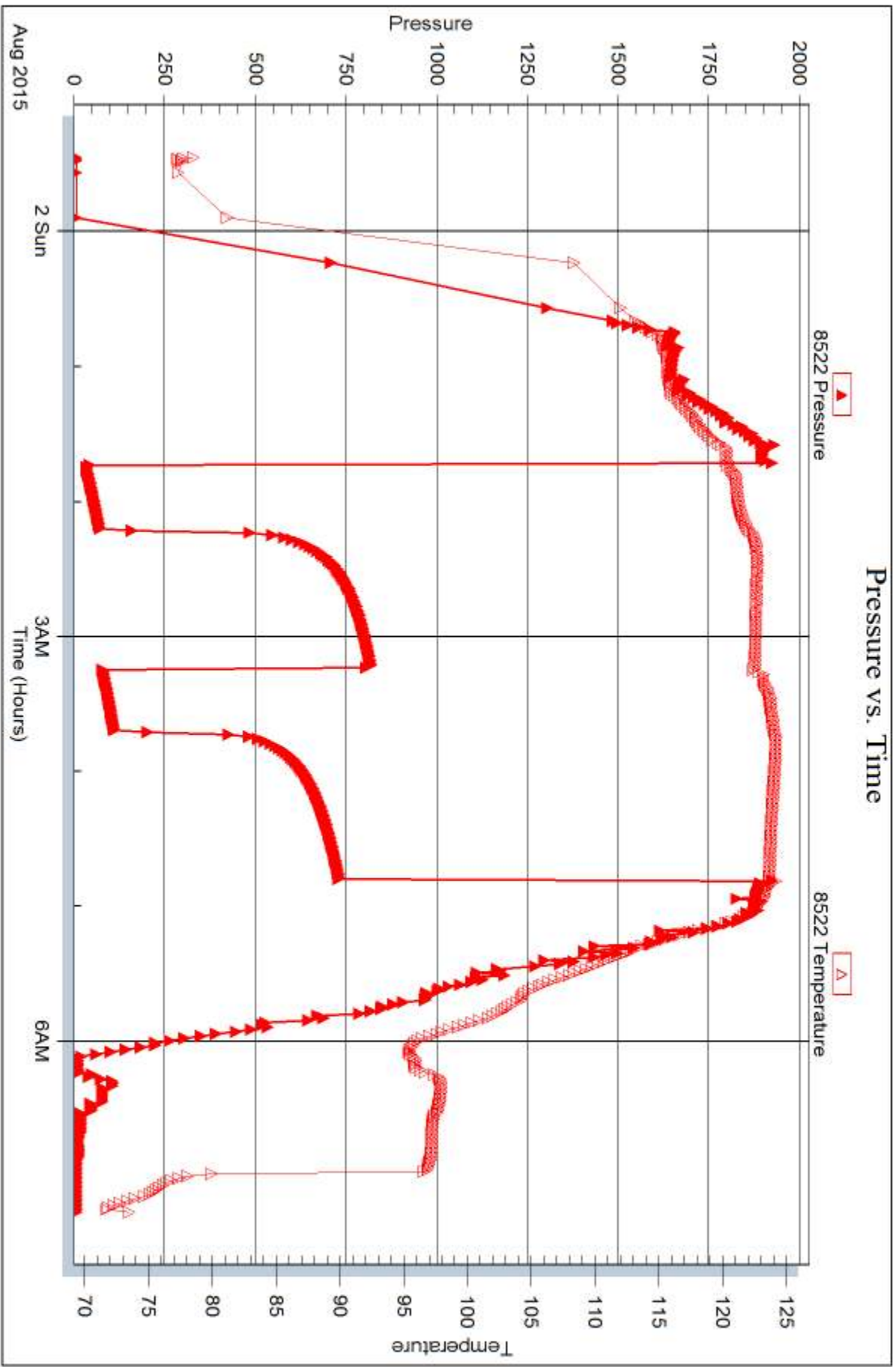


Serial #: 8522

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)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4016.00 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: 165.22 psig @ 3989.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.02

End Date:

2015.08.03

Last Calib.:

2015.08.03

Start Time: 23:20:05

End Time:

05:24:59

Time On Btm:

2015.08.03 @ 00:50:15

Time Off Btm:

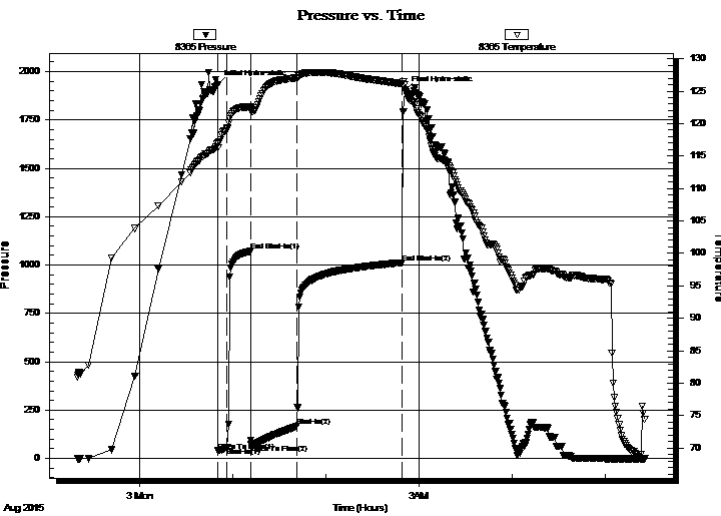
2015.08.03 @ 02:50:30

TEST COMMENT: IF: BOB @ 2.5 min.

IS: 1" return.

FF: BOB @ 2 min.

FS: 9" return.



## PRESSURE 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

\* Recovery from multiple tests

## 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**

ATTN: Tom Williams

Job Ticket: 61808

**DST#: 2**

Test Start: 2015.08.02 @ 23:20:00

**GENERAL INFORMATION:**

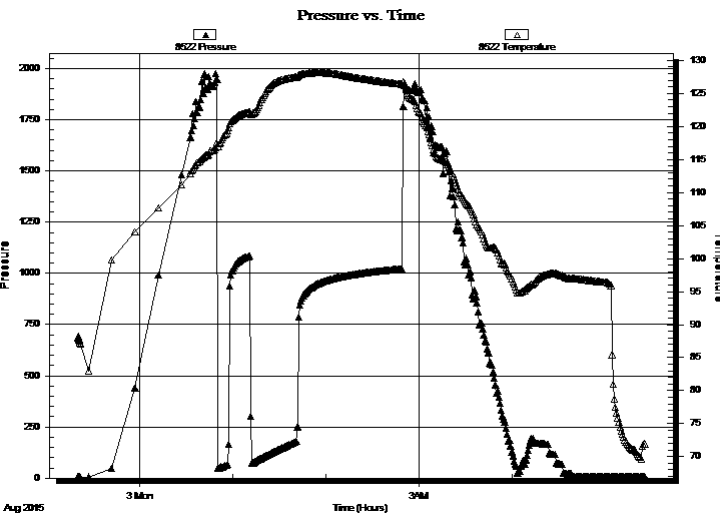
Formation: **LKC - H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:50:30  
 Time Test Ended: 05:25:00  
 Interval: **3988.00 ft (KB) To 4016.00 ft (KB) (TVD)**  
 Total Depth: 4016.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 69  
 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) Capacity: 8000.00 psig  
 Start Date: 2015.08.02 End Date: 2015.08.03 Last Calib.: 2015.08.03  
 Start Time: 23:20:05 End Time: 05:24:59 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: BOB @ 2.5 min.  
 IS: 1" return.  
 FF: BOB @ 2 min.  
 FS: 9" return.



**PRESSURE SUMMARY**

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

**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

\* Recovery from multiple tests

**Gas Rates**

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



**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: 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
			<u>Total Volume: 55.63 bbl</u>	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

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

### 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

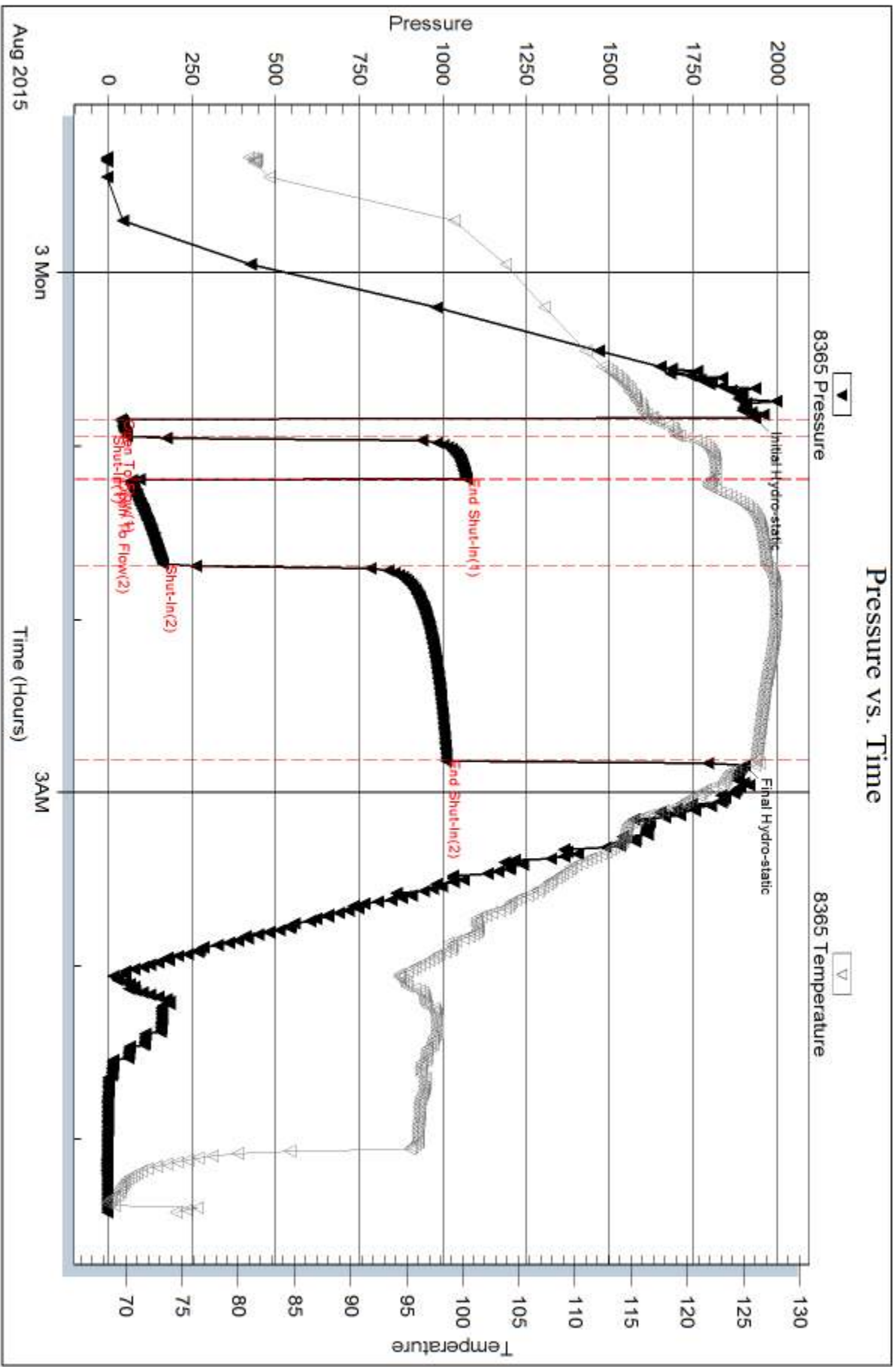
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

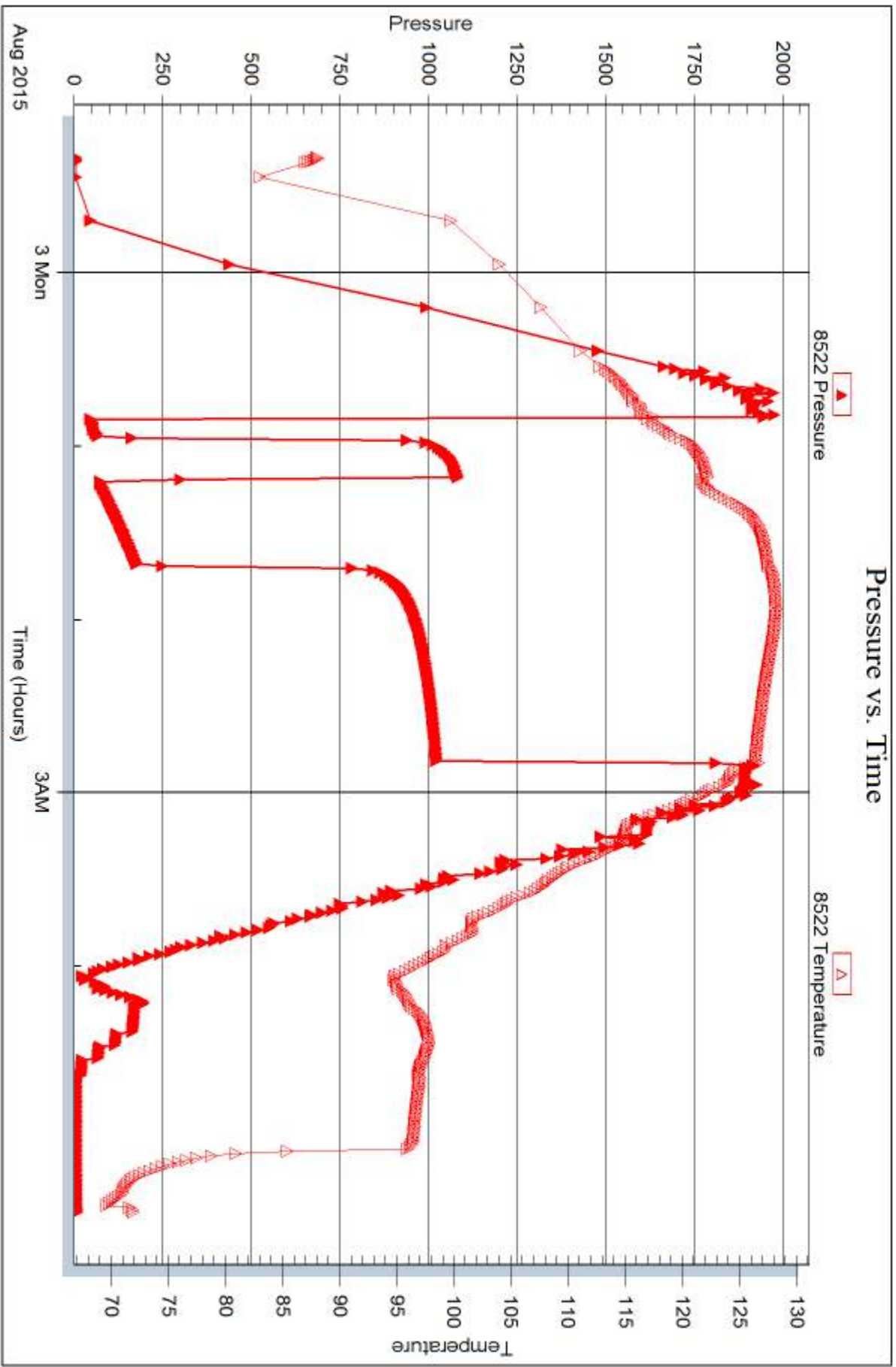


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61808

Printed: 2015.08.08 @ 09:56:14



## 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)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4075.00 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: 15.78 psig @ 4051.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.03

End Date:

2015.08.03

Last Calib.: 2015.08.03

Start Time: 15:15:05

End Time:

20:07:59

Time On Btm: 2015.08.03 @ 16:46:30

Time Off Btm: 2015.08.03 @ 18:51:45

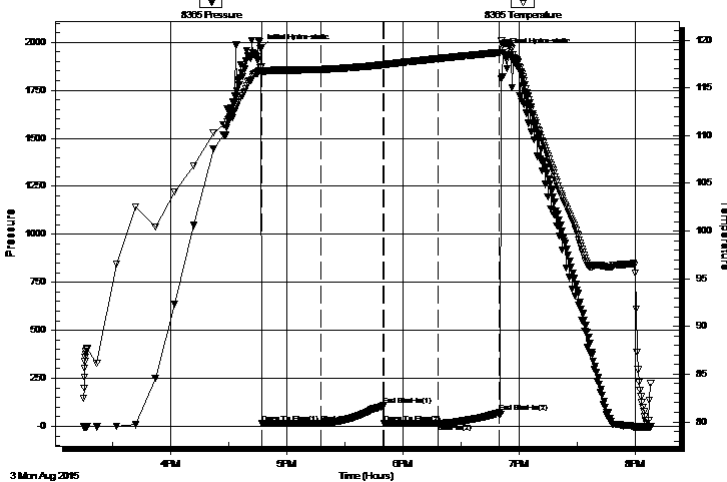
TEST COMMENT: IF: Surface blow .

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

\* Recovery from multiple tests

## Gas Rates

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





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# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Co

**18-16s-28w Lane, KS**

211 Highland Cross Ste 205  
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**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)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4075.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8522 Outside**

Press@RunDepth: psig @ 4051.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.03

End Date:

2015.08.03

Last Calib.:

2015.08.03

Start Time: 15:15:05

End Time:

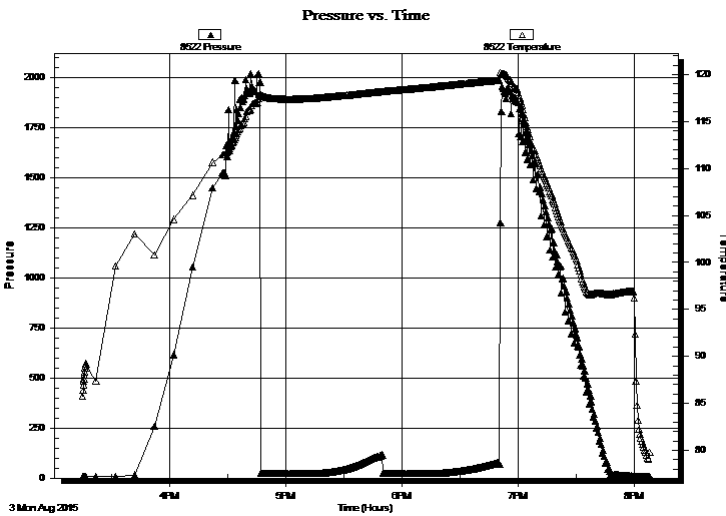
20:07:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Surface blow .  
IS: No return  
FF: No blow .  
FS: No return

## PRESSURE SUMMARY



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

## Recovery

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

## Gas Rates

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

\* 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
			<u>Total Volume: 56.50 bbl</u>	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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 32000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

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

Total Length: 5.00 ft      Total Volume: 0.070 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

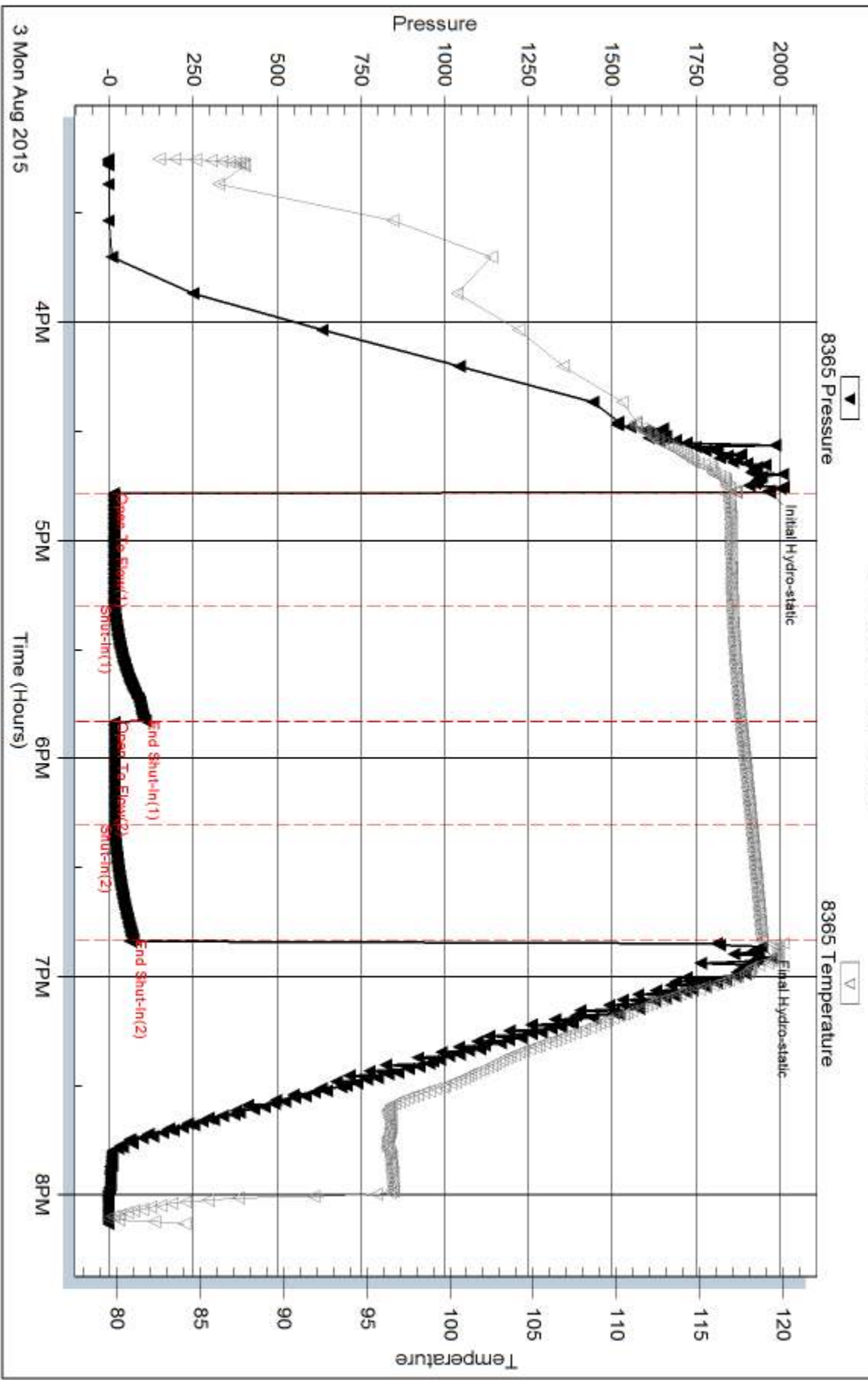
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

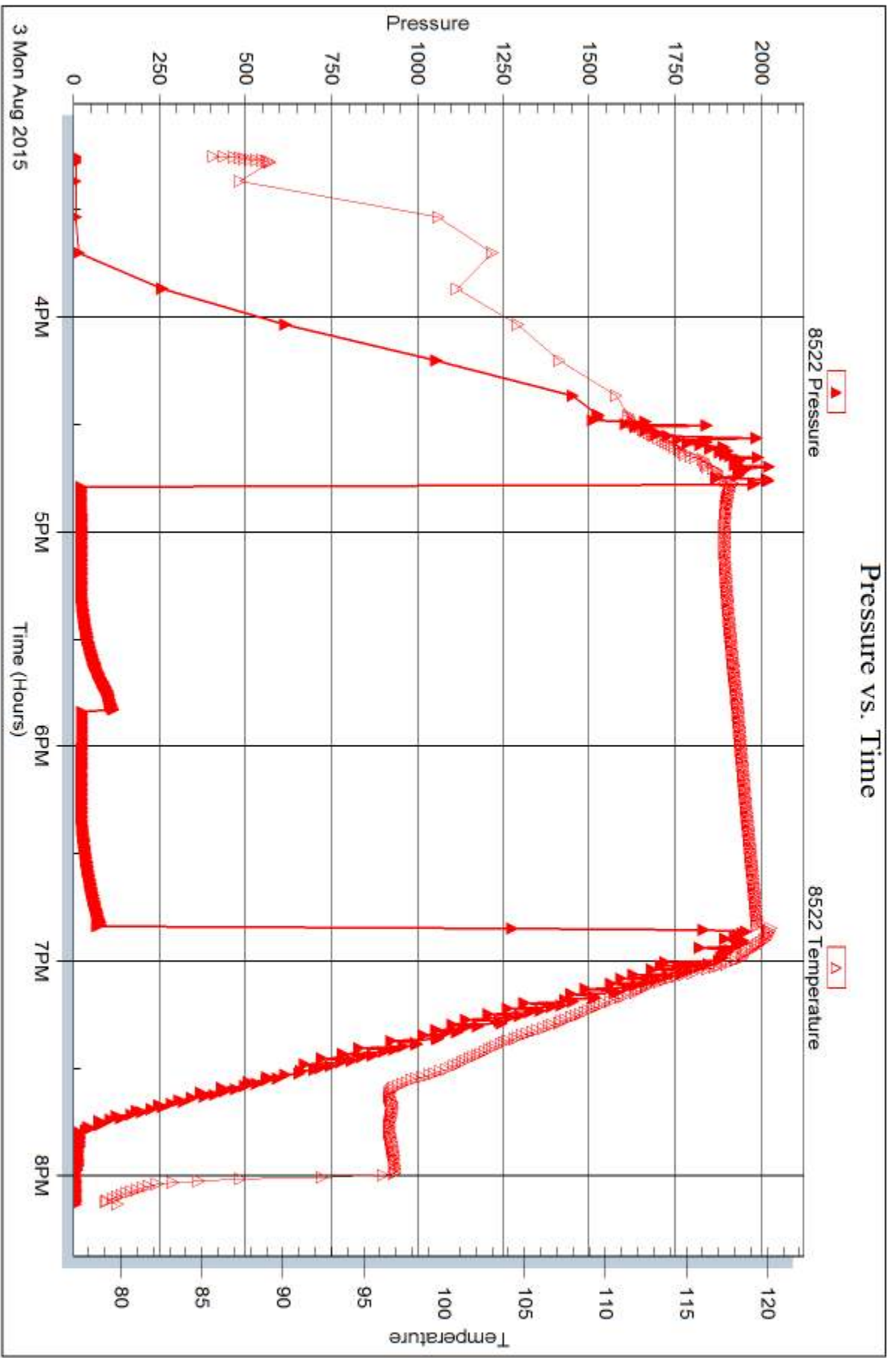


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61809

Printed: 2015.08.08 @ 09:55:53



## 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

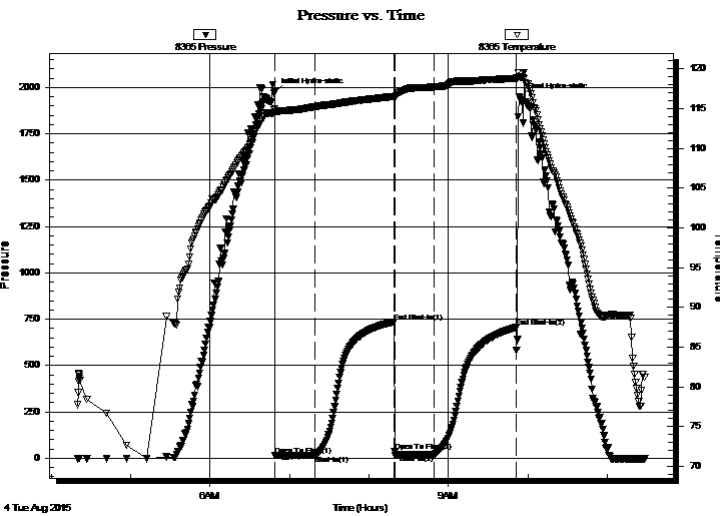
Time On Btm:

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 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

\* Recovery from multiple tests

## Gas Rates

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



**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: 61810      **DST#: 4**  
 Test Start: 2015.08.04 @ 04:20:00

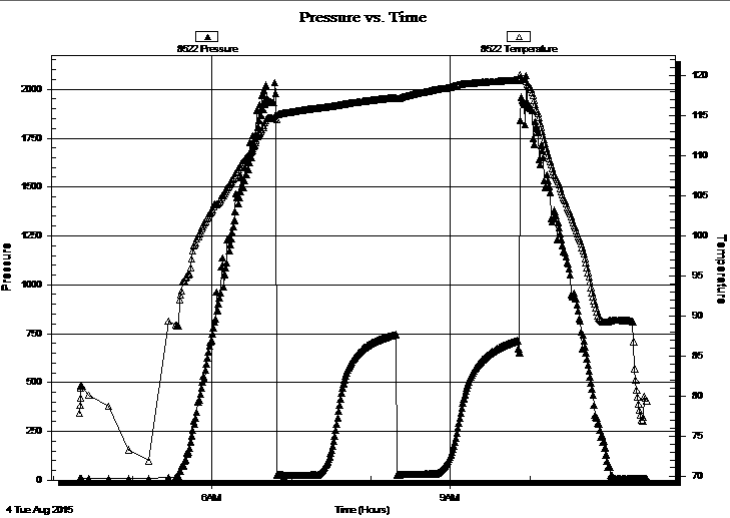
### GENERAL INFORMATION:

Formation: **LKC K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:49:00  
 Time Test Ended: 11:28:00  
**Interval: 4070.00 ft (KB) To 4110.00 ft (KB) (TVD)**  
 Total Depth: 4070.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 2657.00 ft (KB)  
 2648.00 ft (CF)  
 KB to GR/CF: 9.00 ft

### Serial #: 8522 Outside

Press@RunDepth: 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: 11:28:14      Time On Btm:  
 Time Off Btm:

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



### PRESSURE SUMMARY

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

### 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





**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
			<u>Total Volume: 56.81 bbl</u>	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

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

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

### 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

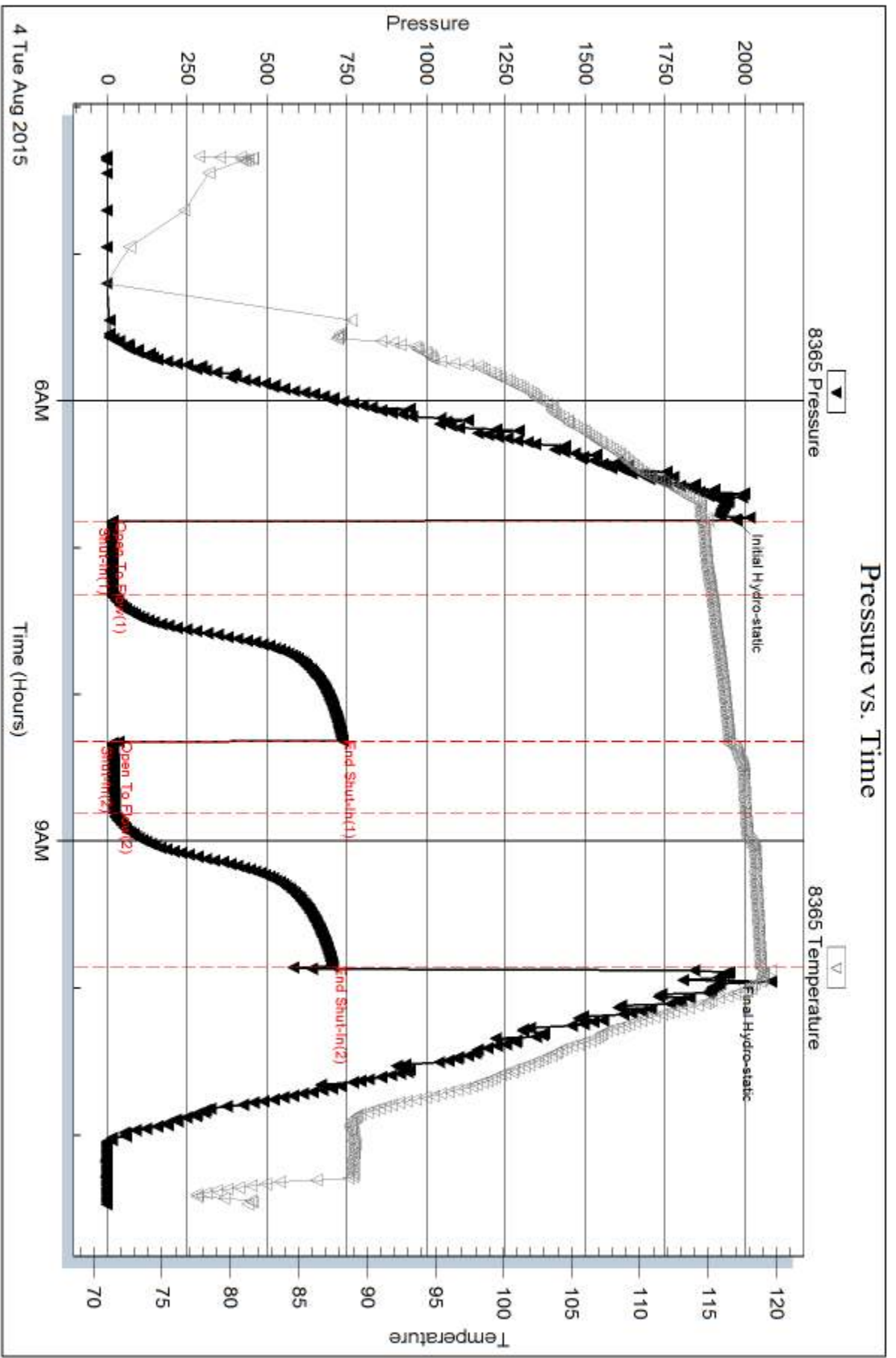
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

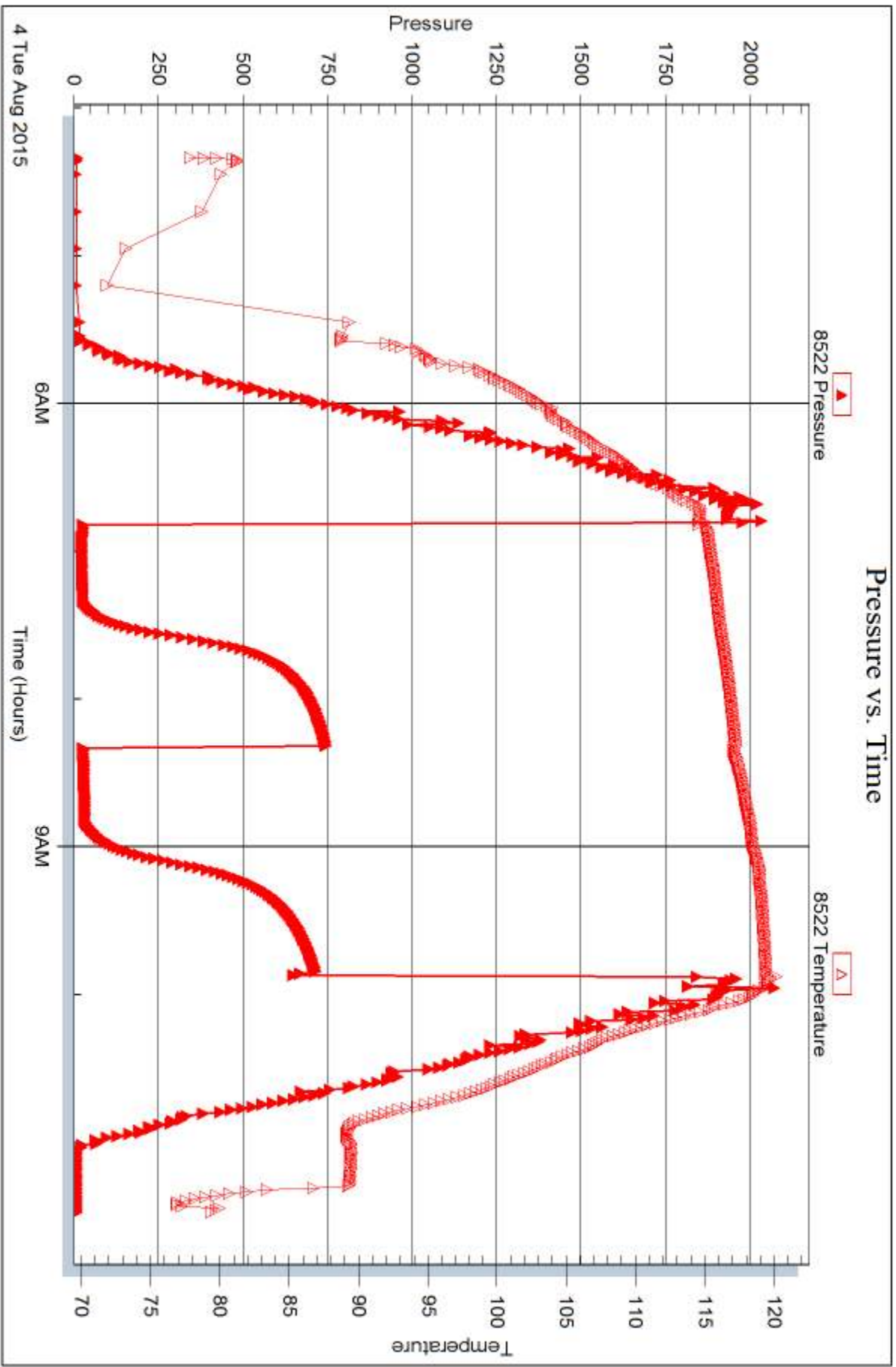


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 61810

Printed: 2015.08.08 @ 09:55:31



## 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

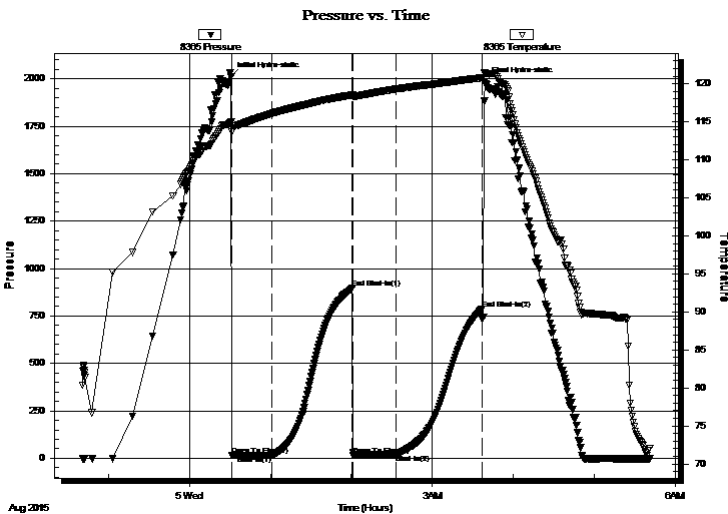
TEST COMMENT: IF: 3 1/2 Inches blow .

IS: No return.

FF: 5" blow .

FS: No return.

## PRESSURE 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

\* Recovery from multiple tests

## Gas Rates

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



# 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 #: 8522** **Outside**

Press@RunDepth: 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:

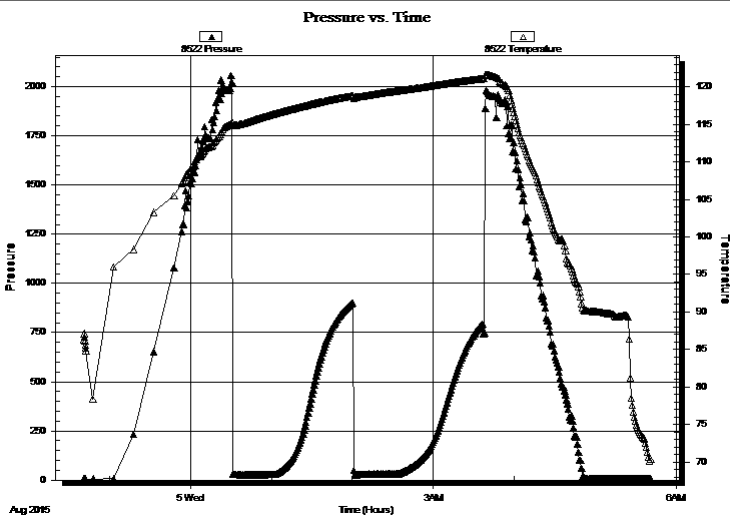
Time Off Btm:

**TEST COMMENT:** IF: 3 1/2 inches blow .

IS: No return.

FF: 5" blow .

FS: No return.



## PRESSURE SUMMARY

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

## 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)

\* 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: 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
			<u>Total Volume: 57.86 bbl</u>	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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

## 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

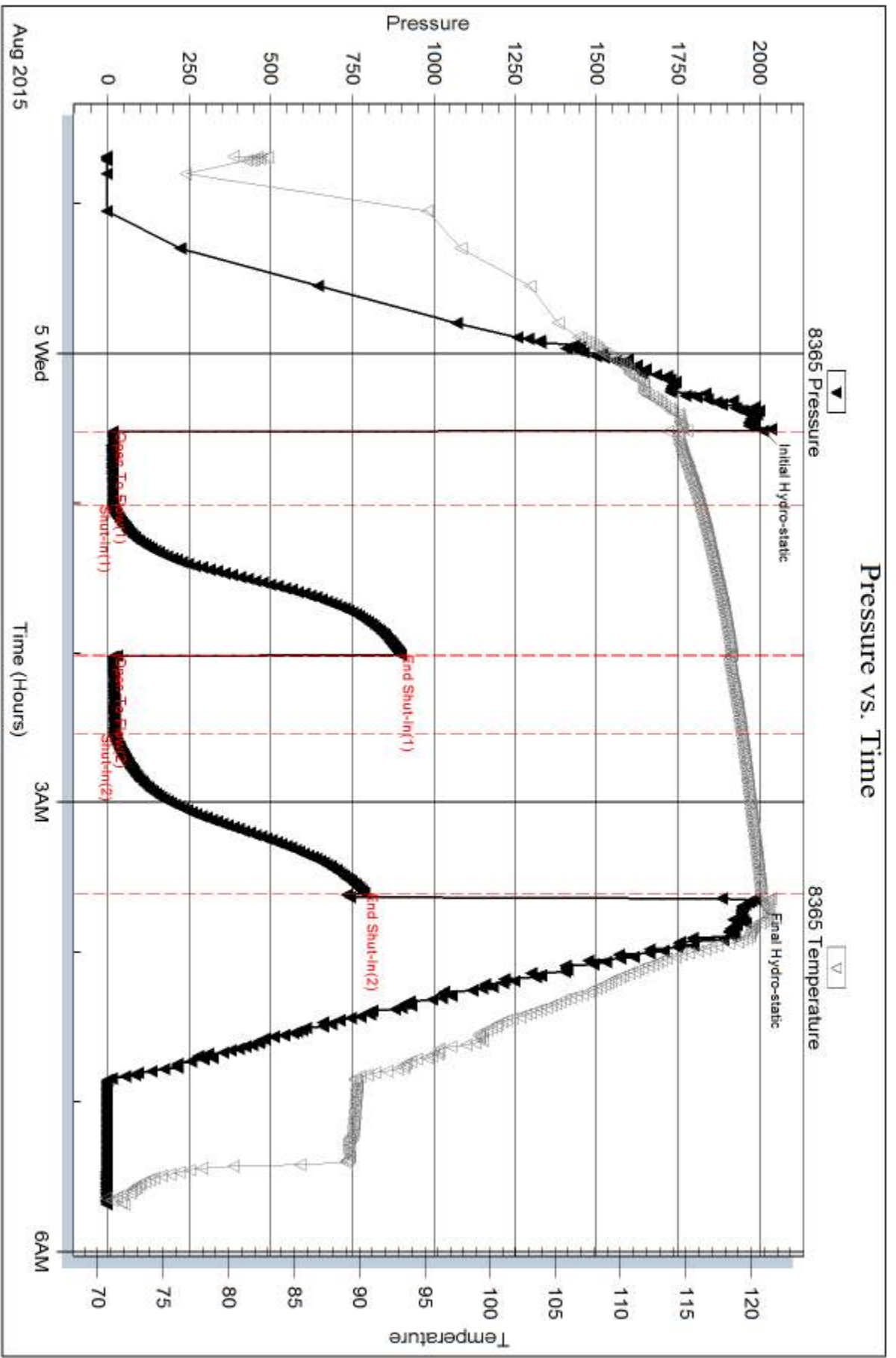
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

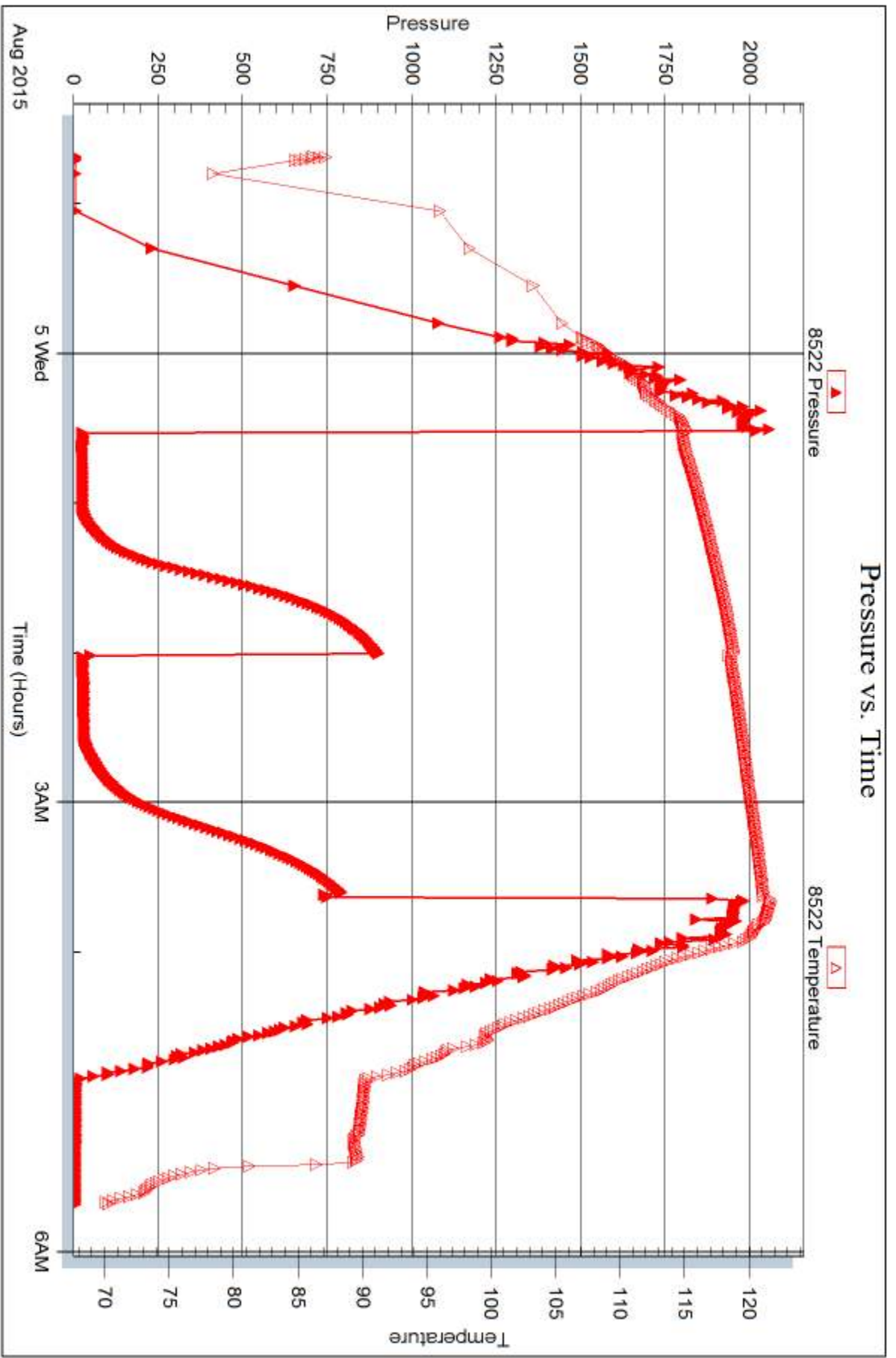


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 61811

Printed: 2015.08.08 @ 09:55:06



## 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

**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

## 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)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4350.00 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: 15.49 psig @ 4313.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.05

End Date:

2015.08.06

Last Calib.:

2015.08.06

Start Time:

21:31:05

End Time:

03:18:14

Time On Btm:

2015.08.05 @ 23:04:30

Time Off Btm:

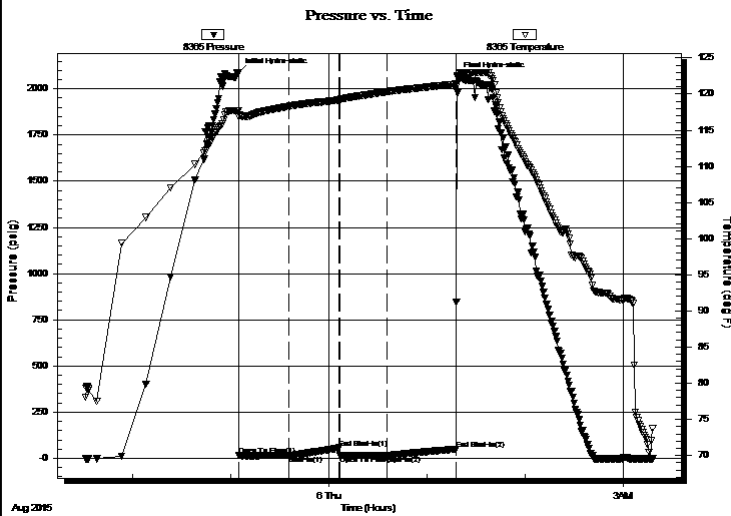
2015.08.06 @ 01:18:30

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

\* Recovery from multiple tests

## Gas Rates

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



**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: 61812

**DST#: 6**

ATTN: Tom Williams

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)**

Reference Elevations: 2657.00 ft (KB)

Total Depth: 4350.00 ft (KB) (TVD)

2648.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8522 Outside**

Press@RunDepth: psig @ 4313.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.05

End Date:

2015.08.06

Last Calib.:

2015.08.06

Start Time: 21:31:05

End Time:

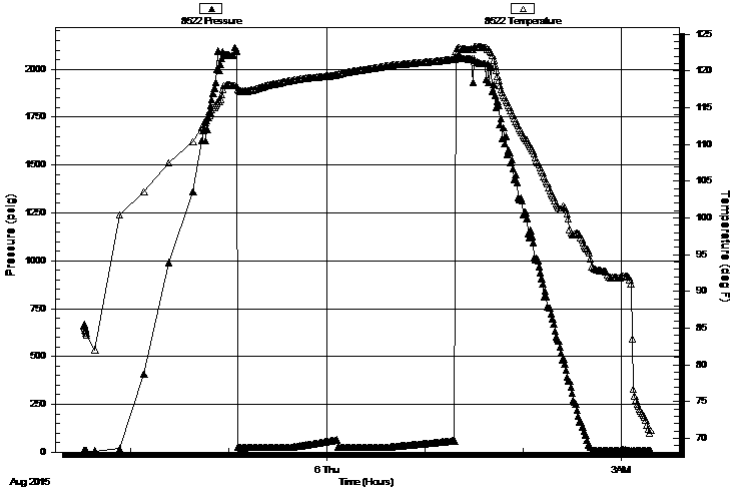
03:18:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak surface blow .  
IS: No return.  
FF: No blow .  
FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

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

## Gas Rates

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

\* 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: 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
			<u>Total Volume: 60.49 bbl</u>	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
------------------	-------------	------------	----------	------------	----------------

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

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

### 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

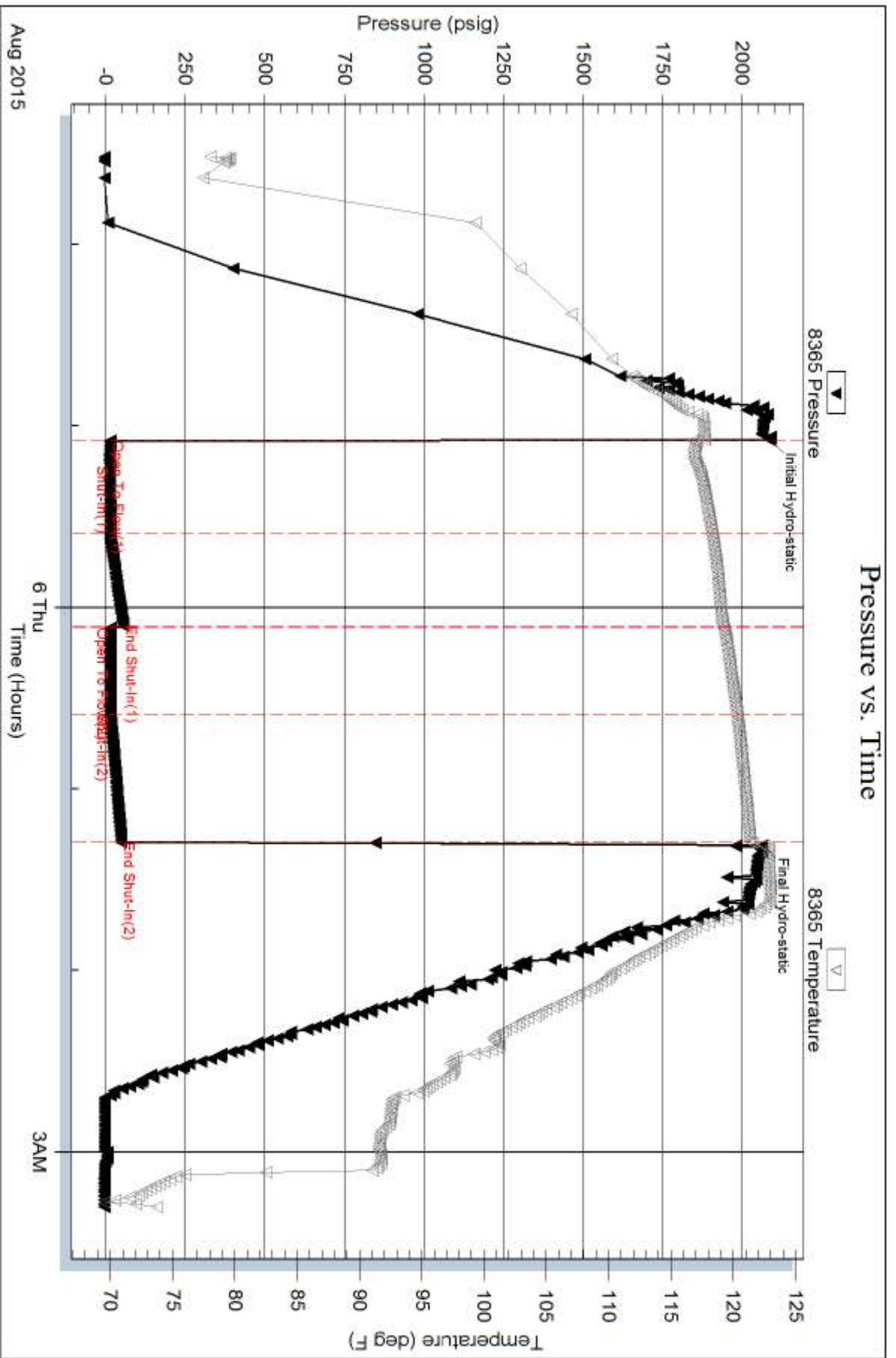
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



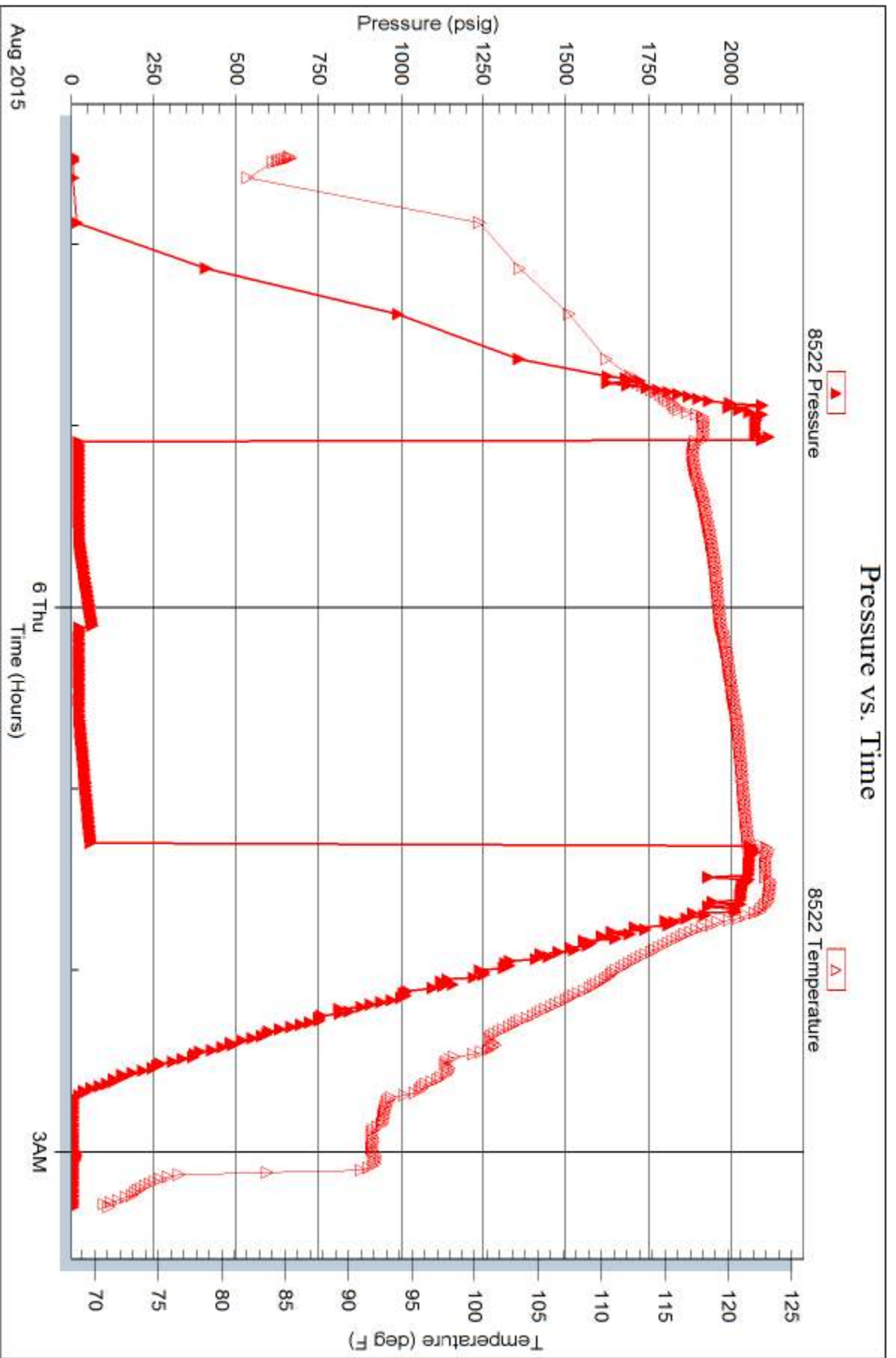


Serial #: 8522

Outside K3 Oil & Gas Operating Co

Eaton #3-18

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 61812

Printed: 2015.08.08 @ 09:20:04



# 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 Ky

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.

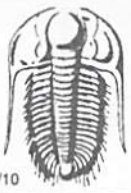
Rec	Feet of	%gas	%oil	%water	%mud
190	60	15	85		
60	60 mco	5	45	10	20
	370' BIP				

Rec Total 250 BHT 123 Gravity 37 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1916</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>2245 08/01</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2327</u>
(C) First Final Flow <u>61</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0144</u>
(D) Initial Shut-In <u>809</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0444</u>
(E) Second Initial Flow <u>71</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0716</u>
(F) Second Final Flow <u>104</u>	<input checked="" type="checkbox"/> Mileage <u>76kr</u>	Comments
(G) Final Shut-In <u>719</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1878</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1451</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1451</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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# 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.  
IF : 1" return  
FF : BOB @ 2 min.  
FSI : 9" return

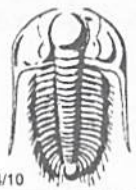
Rec	Feet of	%gas	%oil	%water	%mud
320	60	30	70		
70	6 mcd	30	40		30
	600' GIP				

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

(A) Initial Hydrostatic <u>1935</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2315</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2326</u>
(C) First Final Flow <u>57</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0055</u>
(D) Initial Shut-In <u>1072</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>0245</u>
(E) Second Initial Flow <u>71</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0525</u>
(F) Second Final Flow <u>165</u>	<input checked="" type="checkbox"/> Mileage <u>76 RT</u>	Comments
(G) Final Shut-In <u>1012</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1904</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>9</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>15</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1551</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1551</u>	

Approved By \_\_\_\_\_ Our Representative 

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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. 28 W 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 2#  
 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&amp;TS</u>			<u>100</u>	

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

(A) Initial Hydrostatic <u>1969</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1500</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1515</u>
(C) First Final Flow <u>15</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1642</u>
(D) Initial Shut-In <u>108</u>	<input checked="" type="checkbox"/> Circ Sub <u>NYE</u>	T-Pulled <u>1842</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2008</u>
(F) Second Final Flow <u>16</u>	<input checked="" type="checkbox"/> Mileage <u>26 RT</u>	Comments
(G) Final Shut-In <u>71</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1947</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> 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. 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 - 4610 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 60  
 Total Depth 4610 Chlorides 3200 ppm System LCM 2#

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 <u>1975</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0400</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0420</u>
(C) First Final Flow <u>16</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0649</u>
(D) Initial Shut-In <u>736</u>	<input checked="" type="checkbox"/> Circ Sub <u>NK</u>	T-Pulled <u>0949</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1128</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>76RT</u>	Comments
(G) Final Shut-In <u>706</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1944</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> 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. 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  
FSI 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 2011  Test 1150 T-On Location 2200  
 (B) First Initial Flow 16  Jars 250 T-Started 2220  
 (C) First Final Flow 16  Safety Joint 75 T-Open 0031  
 (D) Initial Shut-In 897  Circ Sub N/L T-Pulled 0351  
 (E) Second Initial Flow 16  Hourly Standby \_\_\_\_\_ T-Out 0541  
 (F) Second Final Flow 21  Mileage 76 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 787  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1987  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 60  Accessibility \_\_\_\_\_  
 Sub Total 1551 Total 1551 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
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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 77073  
 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 IF Weat surface blow.  
ISF No return.  
FF No blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD (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 Total 5 BHT 121 Gravity — API RW — @ — °F Chlorides 2100 ppm

(A) Initial Hydrostatic <u>2087</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2100</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2131</u>
(C) First Final Flow <u>15</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2306 8/05</u>
(D) Initial Shut-In <u>54</u>	<input checked="" type="checkbox"/> Circ Sub <u>4/c</u>	T-Pulled <u>0106</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0318</u>
(F) Second Final Flow <u>15</u>	<input checked="" type="checkbox"/> Mileage <u>76 RT</u>	Comments
(G) Final Shut-In <u>50</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2064</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility	Total <u>1551</u>
Final Shut-In <u>30</u>	Sub Total <u>1551</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]

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