



## DRILL STEM TEST REPORT

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

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

ATTN: John Rigas

### **Boyer #6-3**

### **3-35S-4W Sumner,KS**

Start Date: 2017.03.18 @ 05:18:05

End Date: 2017.03.18 @ 12:54:51

Job Ticket #: 58121                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.22 @ 10:11:03



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 58121

**DST#: 1**

ATTN: John Rigas

Test Start: 2017.03.18 @ 05:18:05

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:05:51  
 Time Test Ended: 12:54:51  
 Interval: **4492.00 ft (KB) To 4508.00 ft (KB) (TVD)**  
 Total Depth: 4508.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brannan Lonsdale  
 Unit No: 73  
 Reference Elevations: 1197.00 ft (KB)  
 1192.00 ft (CF)  
 KB to GR/CF: 5.00 ft

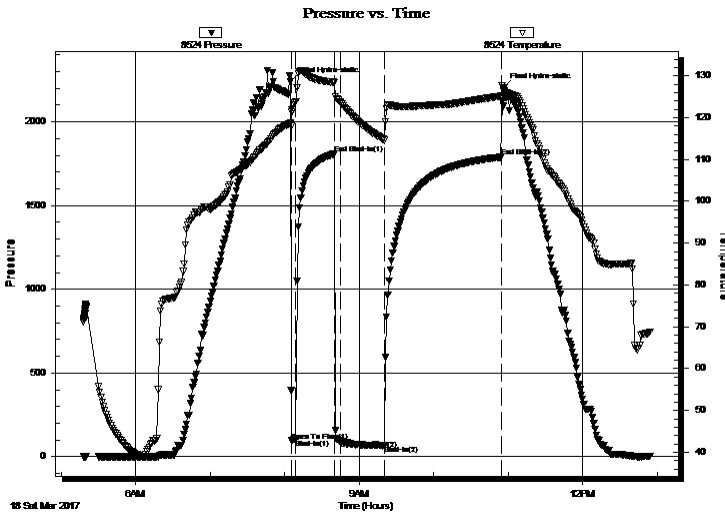
## Serial #: 8524

**Outside**

Press@RunDepth: 65.56 psig @ 4505.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.18 End Date: 2017.03.18 Last Calib.: 2017.03.18  
 Start Time: 05:18:06 End Time: 12:54:51 Time On Btm: 2017.03.18 @ 08:04:51  
 Time Off Btm: 2017.03.18 @ 10:56:36

TEST COMMENT: 05- IF- BOB instantly  
 30- IS- No blow  
 45- FF- BOB instantly Gas to surface 2 mins  
 90- FSI- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2242.17	118.69	Initial Hydro-static
1	95.02	121.34	Open To Flow (1)
4	106.87	123.72	Shut-In(1)
36	1809.25	128.43	End Shut-In(1)
40	96.37	123.71	Open To Flow (2)
76	65.56	114.63	Shut-In(2)
170	1789.59	125.13	End Shut-In(2)
172	2202.27	126.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	WM, 15%W 85%M	0.57
0.00	GTS	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	34.00	1391.44
Last Gas Rate	1.00	19.00	960.21
Max. Gas Rate	1.00	34.00	1391.44



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# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 58121

**DST#: 1**

ATTN: John Rigas

Test Start: 2017.03.18 @ 05:18:05

## GENERAL INFORMATION:

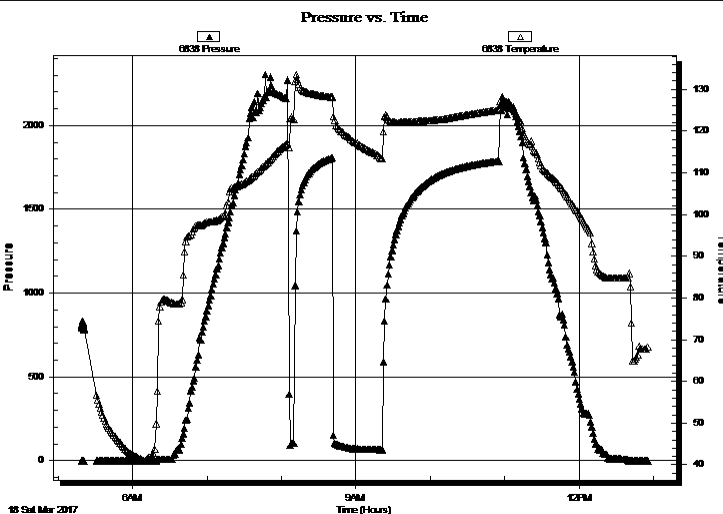
Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:05:51  
 Time Test Ended: 12:54:51  
 Interval: **4492.00 ft (KB) To 4508.00 ft (KB) (TVD)**  
 Total Depth: 4508.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brannan Lonsdale  
 Unit No: 73  
 Reference Elevations: 1197.00 ft (KB)  
 1192.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 6838

Inside

Press@RunDepth: psig @ 4505.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.03.18 End Date: 2017.03.18 Last Calib.: 2017.03.18  
 Start Time: 05:18:59 End Time: 12:55:44 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 05- IF- BOB instantly  
 30- IS- No blow  
 45- FF- BOB instantly Gas to surface 2 mins  
 90- FS- No blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	WM, 15%W 85%M	0.57
0.00	GTS	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	34.00	1391.44
Last Gas Rate	1.00	19.00	960.21
Max. Gas Rate	1.00	34.00	1391.44



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 58121

**DST#: 1**

ATTN: John Rigas

Test Start: 2017.03.18 @ 05:18:05

## Tool Information

Drill Pipe:	Length: 4348.00 ft	Diameter: 3.82 inches	Volume: 61.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4492.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	43.00 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			4466.00	
Shut In Tool	5.00			4471.00	
Hydraulic tool	5.00			4476.00	
Jars	5.00			4481.00	
Safety Joint	2.00			4483.00	
Packer	5.00			4488.00	27.00 Bottom Of Top Packer
Packer	4.00			4492.00	
Stubb	1.00			4493.00	
Perforations	12.00			4505.00	
Recorder	0.00	6838	Inside	4505.00	
Recorder	0.00	8524	Outside	4505.00	
Bullnose	3.00			4508.00	16.00 Bottom Packers & Anchor

**Total Tool Length: 43.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd.Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 58121

**DST#: 1**

ATTN: John Rigas

Test Start: 2017.03.18 @ 05:18:05

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

64000 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: 9000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	WM, 15%W 85%M	0.566
0.00	GTS	0.000

Total Length: 115.00 ft      Total Volume: 0.566 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .13@60deg



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 58121

**DST#: 1**

ATTN: John Rigas

Test Start: 2017.03.18 @ 05:18:05

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	1.00	34.00	1391.44
2	15	1.00	29.00	1247.70
2	25	1.00	23.00	1075.21
2	35	1.00	19.00	960.21

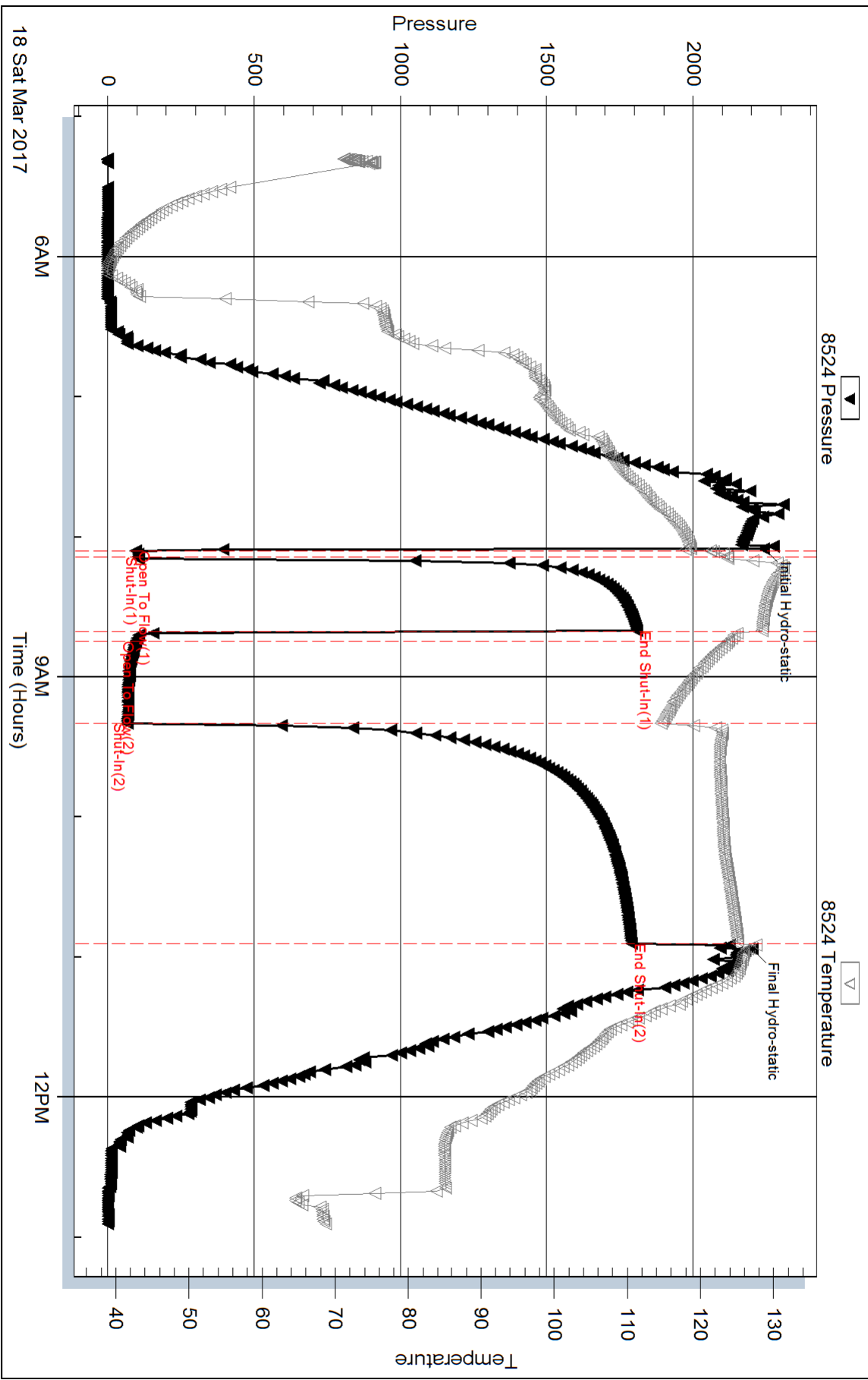
Serial #: 8524

Outside K3 Oil & Gas Operating Company

Boyer #6-3

DST Test Number: 1

### Pressure vs. Time



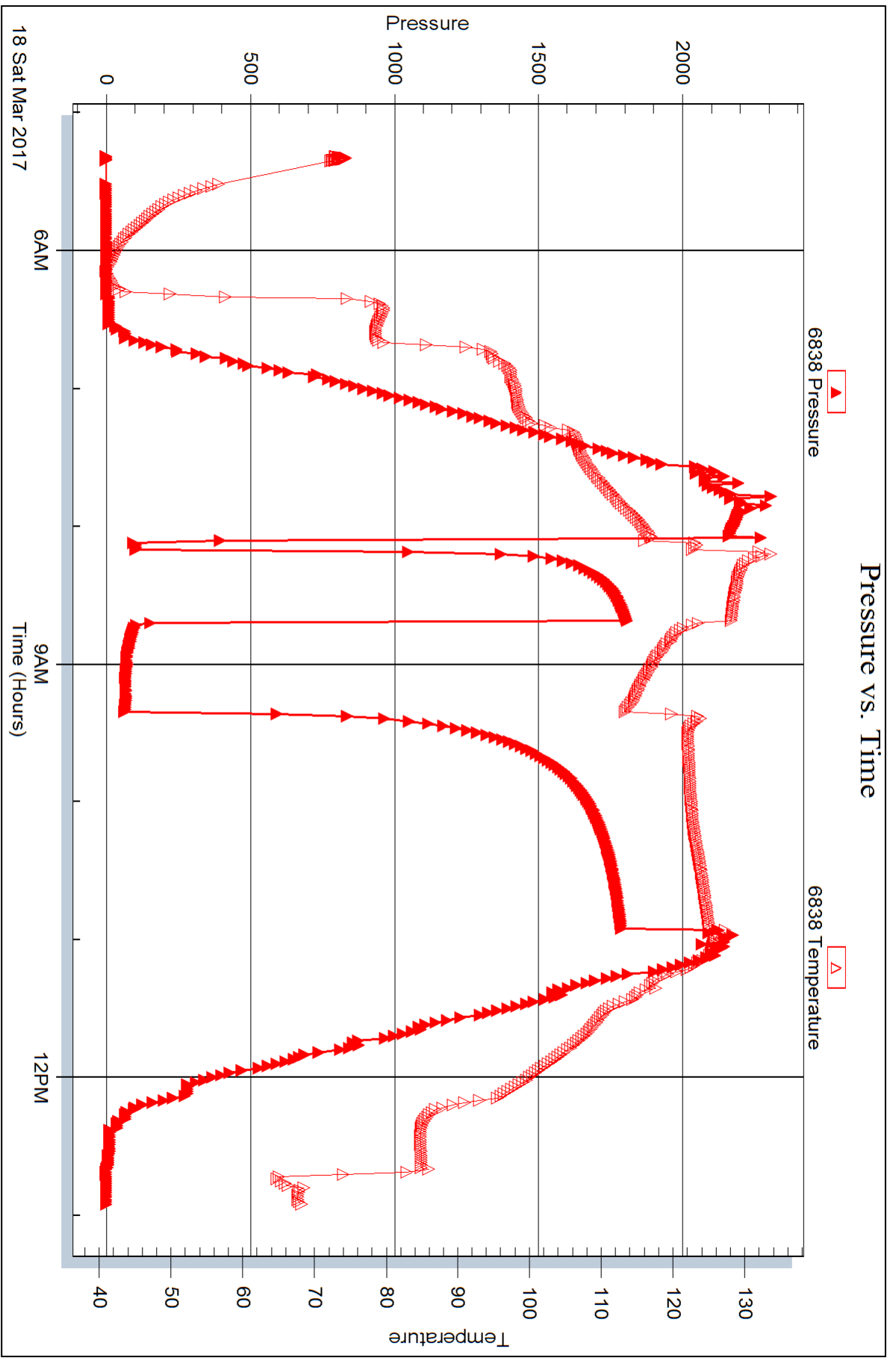
Serial #: 6838

Inside

K3 Oil & Gas Operating Company

Boyer #6-3

DST Test Number: 1







## DRILL STEM TEST REPORT

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

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

ATTN: John Rigas

### **Boyer #6-3**

### **3-35S-4W Sumner,KS**

Start Date: 2017.03.20 @ 15:04:00

End Date: 2017.03.20 @ 22:04:45

Job Ticket #: 63098                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.22 @ 10:16:24



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 63098

**DST#: 2**

ATTN: John Rigas

Test Start: 2017.03.20 @ 15:04:00

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:09:00

Time Test Ended: 22:04:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

**Interval: 4955.00 ft (KB) To 4966.00 ft (KB) (TVD)**

Reference Elevations: 1197.00 ft (KB)

Total Depth: 4966.00 ft (KB) (TVD)

1192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 9124 Outside**

Press@RunDepth: 54.35 psig @ 4956.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.20

End Date:

2017.03.20

Last Calib.:

2017.03.20

Start Time: 15:04:05

End Time:

22:04:44

Time On Btm:

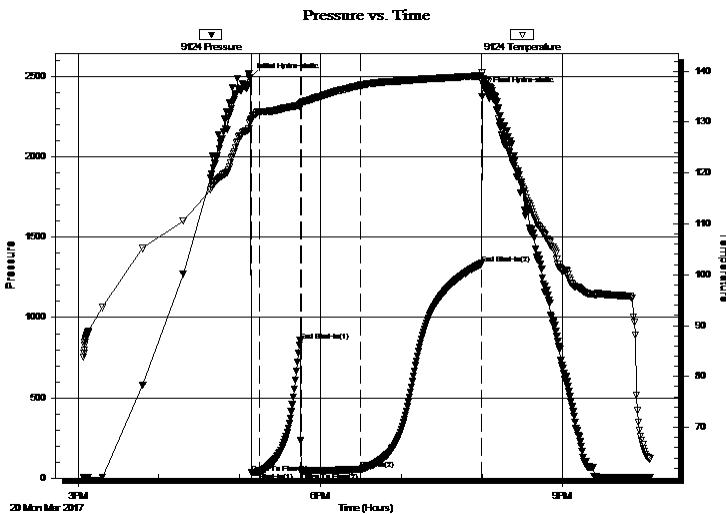
2017.03.20 @ 17:08:00

Time Off Btm:

2017.03.20 @ 20:03:00

TEST COMMENT: IF - Weak blow building to 2"  
ISI - No blow back  
FF - Weak blow building to 2"  
FSI - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2492.27	130.30	Initial Hydro-static
1	32.87	130.75	Open To Flow (1)
7	36.03	132.09	Shut-In(1)
37	856.04	133.35	End Shut-In(1)
38	39.14	133.61	Open To Flow (2)
82	54.35	137.25	Shut-In(2)
172	1336.03	139.12	End Shut-In(2)
175	2405.27	138.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	Very slight oil cut mud TR O & 100% M	0.44
0.00	30' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 63098

**DST#: 2**

ATTN: John Rigas

Test Start: 2017.03.20 @ 15:04:00

## Tool Information

Drill Pipe:	Length: 4828.00 ft	Diameter: 3.80 inches	Volume: 67.72 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 68.31 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4955.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 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			4928.00	
Shut In Tool	5.00			4933.00	
Hydraulic tool	5.00			4938.00	
Jars	5.00			4943.00	
Safety Joint	3.00			4946.00	
Packer	4.00			4950.00	28.00 Bottom Of Top Packer
Packer	5.00			4955.00	
Stubb	1.00			4956.00	
Recorder	0.00	9124	Outside	4956.00	
Recorder	0.00	6798	Inside	4956.00	
Perforations	5.00			4961.00	
Bullnose	5.00			4966.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 39.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 63098

**DST#: 2**

ATTN: John Rigas

Test Start: 2017.03.20 @ 15:04:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Very slight oil cut mud TRO & 100% M	0.443
0.00	30' GIP	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

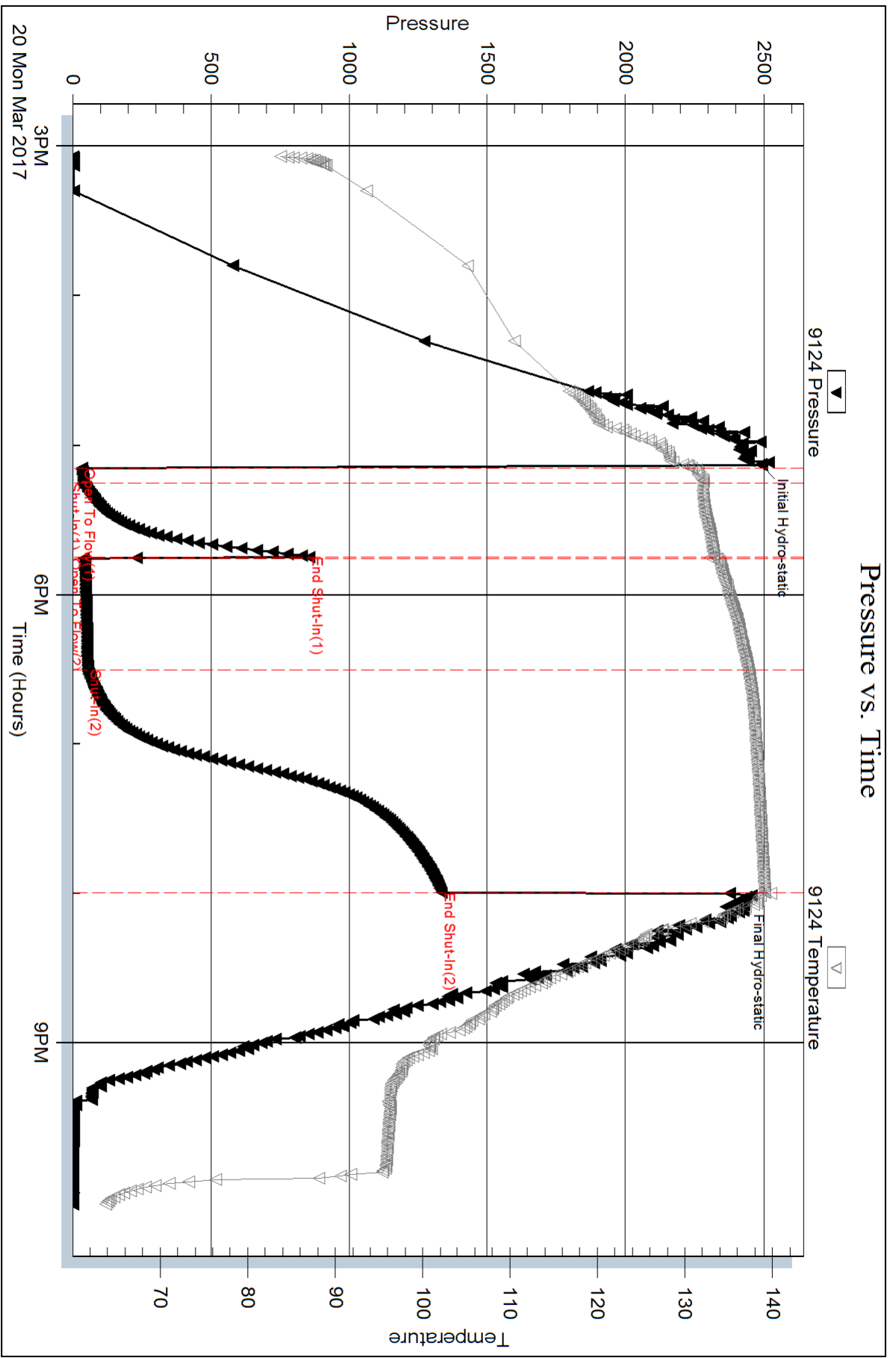
Recovery Comments:

Serial #: 9124

Outside K3 Oil & Gas Operating Company

Boyer #6-3

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63098

Printed: 2017.03.22 @ 10:16:24



## DRILL STEM TEST REPORT

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

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

ATTN: John Rigas

### **Boyer #6-3**

### **3-35S-4W Sumner,KS**

Start Date: 2017.03.21 @ 05:03:00

End Date: 2017.03.21 @ 11:47:30

Job Ticket #: 63099                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.22 @ 10:14:42



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 63099

**DST#: 3**

ATTN: John Rigas

Test Start: 2017.03.21 @ 05:03:00

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:59:00

Time Test Ended: 11:47:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

**Interval: 4957.00 ft (KB) To 4979.00 ft (KB) (TVD)**

Reference Elevations: 1197.00 ft (KB)

Total Depth: 4979.00 ft (KB) (TVD)

1192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 9124 Outside**

Press@RunDepth: 77.36 psig @ 4958.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.21

End Date:

2017.03.21

Last Calib.:

2017.03.21

Start Time: 05:03:05

End Time:

11:47:29

Time On Btm:

2017.03.21 @ 06:58:15

Time Off Btm:

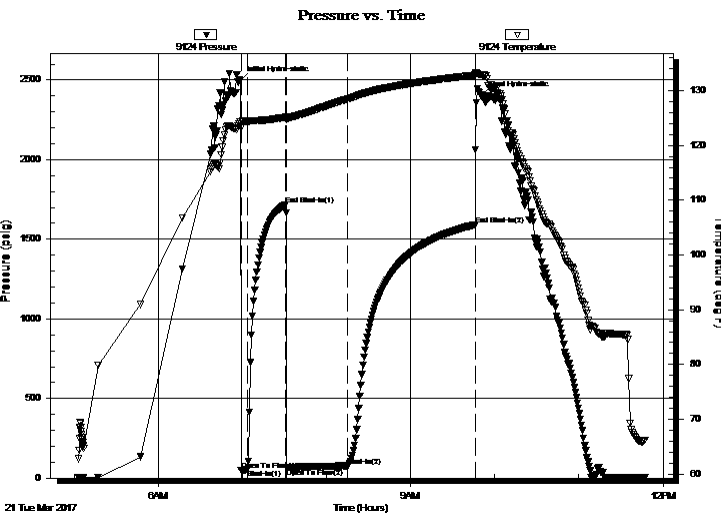
2017.03.21 @ 09:50:30

TEST COMMENT: IF - Weak blow building to 1 1/2"

ISI - No blow back

FF - Weak blow building to 1 1/2"

FSI - No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2495.14	124.26	Initial Hydro-static
1	51.00	123.31	Open To Flow (1)
6	54.57	124.35	Shut-In(1)
33	1719.38	125.15	End Shut-In(1)
34	64.12	124.68	Open To Flow (2)
77	77.36	128.49	Shut-In(2)
168	1590.94	132.83	End Shut-In(2)
173	2400.38	132.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
145.00	Drilling Mud 100%M	0.95

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd.Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 63099

**DST#: 3**

ATTN: John Rigas

Test Start: 2017.03.21 @ 05:03:00

**GENERAL INFORMATION:**

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:59:00

Time Test Ended: 11:47:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

**Interval: 4957.00 ft (KB) To 4979.00 ft (KB) (TVD)**

Reference Elevations: 1197.00 ft (KB)

Total Depth: 4979.00 ft (KB) (TVD)

1192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6798 Inside**

Press@RunDepth: psig @ 4958.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.21

End Date:

2017.03.21

Last Calib.:

1899.12.30

Start Time: 05:03:05

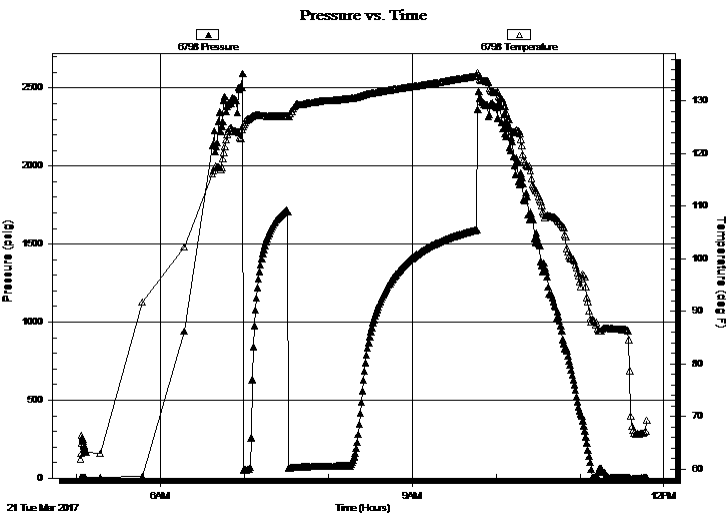
End Time:

11:47:44

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF - Weak blow building to 1 1/2"  
ISI - No blow back  
FF - Weak blow building to 1 1/2"  
FSI - No blow back



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
145.00	Drilling Mud 100%M	0.95

**Gas Rates**

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd. Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 63099

**DST#: 3**

ATTN: John Rigas

Test Start: 2017.03.21 @ 05:03:00

## Tool Information

Drill Pipe:	Length: 4828.00 ft	Diameter: 3.80 inches	Volume: 67.72 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 68.31 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4957.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4930.00	
Shut In Tool	5.00			4935.00	
Hydraulic tool	5.00			4940.00	
Jars	5.00			4945.00	
Safety Joint	3.00			4948.00	
Packer	4.00			4952.00	28.00 Bottom Of Top Packer
Packer	5.00			4957.00	
Stubb	1.00			4958.00	
Recorder	0.00	9124	Outside	4958.00	
Recorder	0.00	6798	Inside	4958.00	
Perforations	16.00			4974.00	
Bullnose	5.00			4979.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 50.00**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

K3 Oil & Gas Operating Company

**3-35S-4W Sumner,KS**

24900 Pitkin Rd.Suite 305  
The Woodlands, TX 77386

**Boyer #6-3**

Job Ticket: 63099

**DST#: 3**

ATTN: John Rigas

Test Start: 2017.03.21 @ 05:03:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
145.00	Drilling Mud 100%M	0.950

Total Length: 145.00 ft      Total Volume: 0.950 bbl

Num Fluid Samples: 0

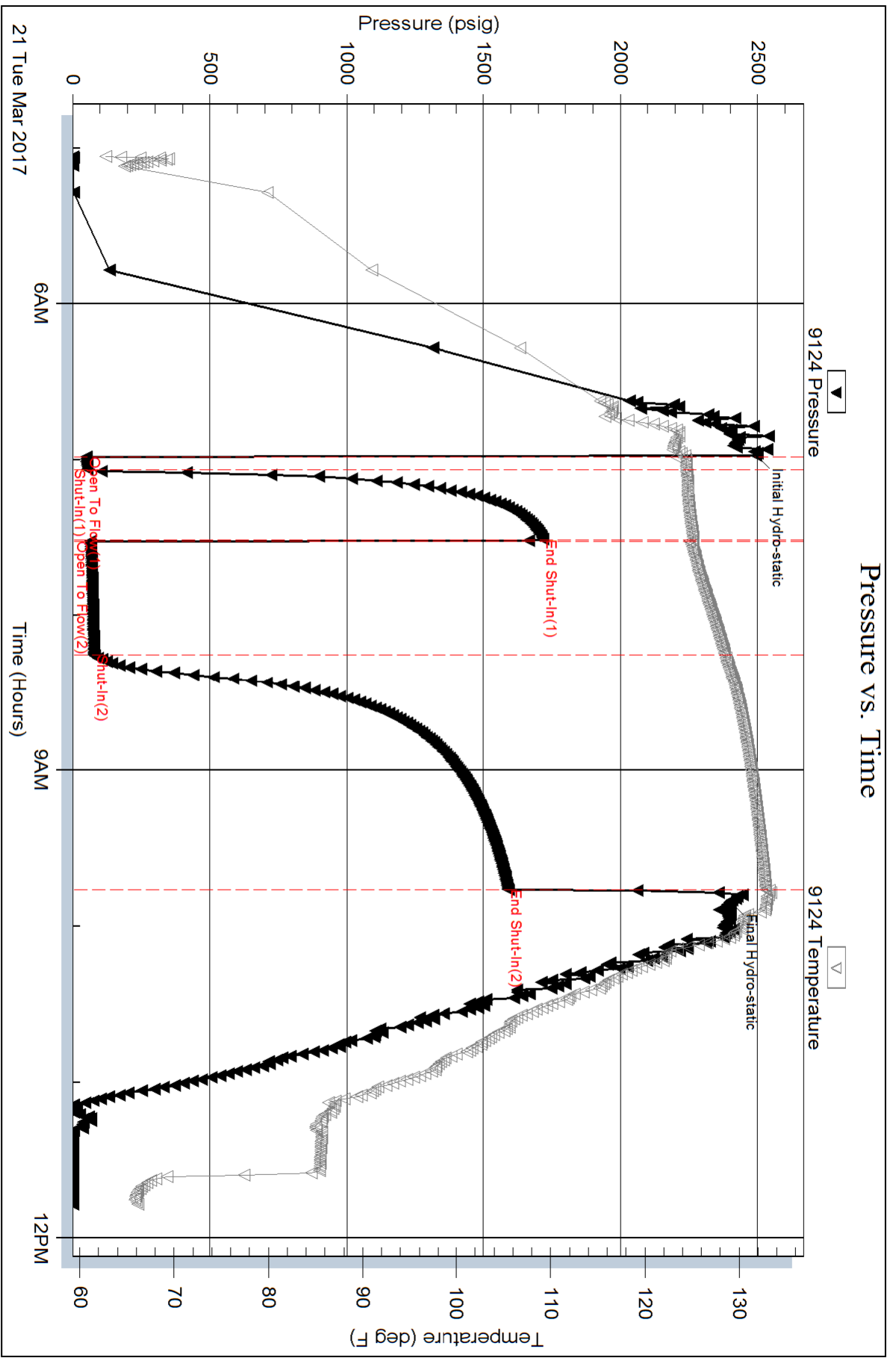
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



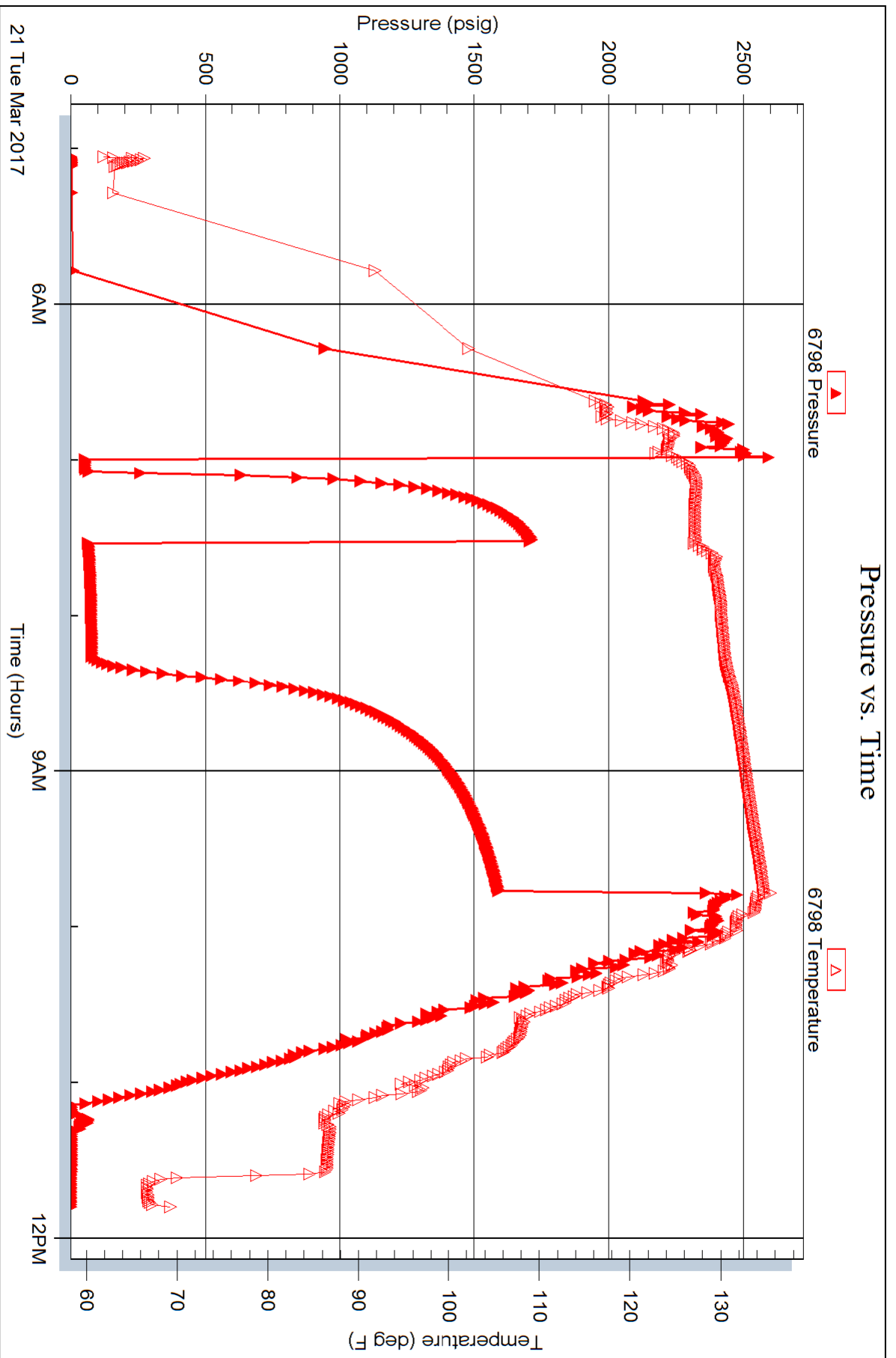
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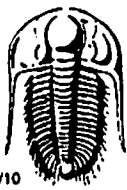
Inside

K3 Oil & Gas Operating Company

Boyer #6-3

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58121

Well Name & No. Boyer #6-3 Test No. 1 Date 3/18/17  
 Company K3 Oil & Gas Operating Company Elevation 1197 KB 1192 GL  
 Address 24900 Pitkin Rd Suite 305 The Woodlands, TX 77386  
 Co. Rep / Geo. \_\_\_\_\_ Rig WW #8  
 Location: Sec. 3 Twp. 35 S Rge. 4 W Co. Sumner State KS

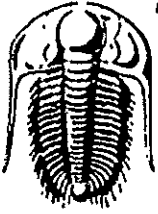
Interval Tested 4492-4508 Zone Tested MISS  
 Anchor Length 16' Drill Pipe Run 4348 Mud Wt. 9.1  
 Top Packer Depth 4487 Drill Collars Run 119 Vis 52  
 Bottom Packer Depth 4492 Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth 4508 Chlorides 9000 ppm System LCM 2#  
 Blow Description IF- BOB instantly  
ISI- No blow  
FF- BOB instantly Gas to surface 2 min  
F5I- No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>115</u>	<u>WM</u>			<u>15</u>	<u>85</u>
Rec	Feet of <u>4384' AIP</u>	%gas	%oil	%water	%mud
Rec	Feet of _____	%gas	%oil	%water	%mud
Rec	Feet of _____	%gas	%oil	%water	%mud
Rec	Feet of _____	%gas	%oil	%water	%mud

Rec Total 115' BHT 125° Gravity \_\_\_\_\_ API RW .13 @ 60 °F Chlorides 64000 ppm  
 (A) Initial Hydrostatic 2242  Test 1150 T-On Location 0435  
 (B) First Initial Flow 95  Jars 250 T-Started 0518  
 (C) First Final Flow 107  Safety Joint 75 T-Open 0805  
 (D) Initial Shut-In 1809  Circ Sub \_\_\_\_\_ T-Pulled 1055  
 (E) Second Initial Flow 96  Hourly Standby \_\_\_\_\_ T-Out 1255  
 (F) Second Final Flow 66  Mileage 418 RT 200rt 150 Comments Tools loaded  
 (G) Final Shut-In 1790  Sampler \_\_\_\_\_ 3/19 @ 1500  
 (H) Final Hydrostatic 2202  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1875  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1875

Approved By \_\_\_\_\_ Our Representative Brannan Lonsdale

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601 • (785) 625-4778

## GAS VOLUME REPORT

K3 Oil & Gas Operating Company  
OPERATOR

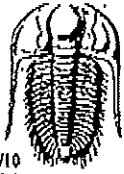
Boyer #6-3  
WELL NAME AND NO.

1  
OST NO.

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D
5	34	1"	1,391,443				
15	29	1"	1,247,699				
25	23	1"	1,075,208				
35	19	1"	960,210				

Remarks:





# TRILOBITE TESTING INC.

1516 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63098

Well Name & No. K3 Oil and Gas Oper. Co. Boyer #6-3 Test No. 2 Date 3-20-17  
 Company K3 Oil and Gas Oper. Co. Elevation 1197 KB 1192 GL  
 Address 24900 Pittkin Rd Suite 305 The Woodlands, TX 77386  
 Co. Rep / Geo. John Rigas Rig W.W. Drilling #8  
 Location: Sec. 3 Twp. 35 S Rge. 4 W Co. Summer State KS

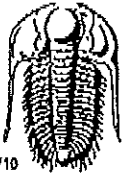
Interval Tasted 4955-4966 Zone Tested Simpson  
 Anchor Length 11 Drill Pipe Run 4258 4828 Mud Wt. 9.0  
 Top Packer Depth 4955 Drill Collars Run 119 Vis 57  
 Bottom Packer Depth 4950 Wt. Pipe Run 0 WL 9.8  
 Total Depth 4966 Chlorides 2500 ppm System LCM  
 Blow Description IF - weak blow building to 2 inches IFP  
FF - weak blow building to 2 inch Final Flow Period

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>very slightly oil cat. M.</u>	<u>TR</u>		<u>100</u>	
<u>30</u>	<u>GIP</u>	<u>100</u>			

Rec Total 90 BHT 139 Gravelly API RW @ F Chlorides ppm

(A) Initial Hydrostatic <u>2492</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1430</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jara <u>250</u>	T-Started <u>1504</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1709</u>
(D) Initial Shut-In <u>856</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2000</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2200</u>
(F) Second Final Flow <u>54</u>	<input checked="" type="checkbox"/> Mileage <u>150</u> <u>RT 146</u>	Comments
(G) Final Shut-In <u>1336</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2405</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>6</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Total <u>1625</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1625</u>	

Approved By [Signature] Our Representative Jimmy Dickel  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

## Test Ticket

NO. 63099

Well Name & No. Boyer #6-3 Test No. 3 Date 3-21-17  
 Company K3 Oil & Gas Oper. Co. Elevation 1197 KB 1192 GL  
 Address 24900 Atkin Rd. Suite 305 The Woodlands, Tx. 77386  
 Co. Rep / Geo. John Riggs Rig WW Drilling #8  
 Location: Sec. 3 Twp. 35 S Rge. 4W Co. Sumner State KS

Interval Tested 4957-4979 Zone Tested Simpson  
 Anchor Length 22 Drill Pipe Run 4828 Mud Wt. 9.0  
 Top Packer Depth 4952 Drill Collars Run 119 Vis 54  
 Bottom Packer Depth 4957 Wt. Pipe Run 0 WL 9.8  
 Total Depth 4979 Chlorides 8500 ppm System LCM  
 Blow Description IF- Weak blow building to 1 1/2 inches FFD  
FF- Weak blow building to 1 1/2 inches FFD

Rec	Feet of	%gas	%oil	%water	%mud
<u>145</u>	<u>Drilling Mud</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 145 BHT 133 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2495</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0400</u>
(B) First Initial Flow <u>51</u>	<input checked="" type="checkbox"/> Jgrs <u>250</u>	T-Started <u>0503</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0659</u>
(D) Initial Shut-In <u>1719</u>	<input type="checkbox"/> Oil Sub	T-Pulled <u>0946</u>
(E) Second Initial Flow <u>64</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1140</u>
(F) Second Final Flow <u>77</u>	<input type="checkbox"/> Mileage	Comments _____
(G) Final Shut-In <u>1591</u>	<input type="checkbox"/> Sampler	_____
(H) Final Hydrostatic <u>2400</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 5  
 Initial Shut-In 30  
 Final Flow 45  
 Final Shut-In 90

<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies	Sub Total <u>0</u>
<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Recorder	Total <u>1475</u>
<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Day Standby	MP/DST Disc't _____
<input type="checkbox"/> Accessibility	Sub Total <u>1475</u>	

Approved By [Signature] Our Representative [Signature]

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