



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling, Co**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Jeff Christian

### **Schwab 'A' #2-5**

#### **5-2s-26w Decatur, KS**

Start Date: 2012.08.21 @ 03:30:00

End Date: 2012.08.21 @ 11:43:15

Job Ticket #: 45649                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.27 @ 14:15:17



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling, Co  
 250 N Water STE #300  
 Wichita, KS 67202  
 ATTN: Jeff Christian

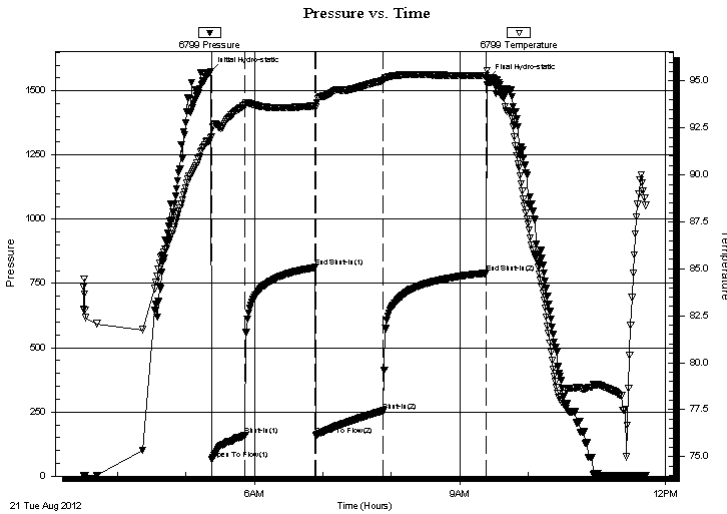
**5-2s-26w Decatur, KS**  
**Schwab 'A' #2-5**  
 Job Ticket: 45649 **DST#: 1**  
 Test Start: 2012.08.21 @ 03:30:00

## GENERAL INFORMATION:

Formation: **Oread, Toronto, LKC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:22:45  
 Time Test Ended: 11:43:15  
 Interval: **3321.00 ft (KB) To 3399.00 ft (KB) (TVD)**  
 Total Depth: 3399.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Mack  
 Unit No: 43  
 Reference Elevations: 2594.00 ft (KB)  
 2589.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 6799 Inside**  
 Press @ Run Depth: 254.61 psig @ 3322.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.21 End Date: 2012.08.21 Last Calib.: 2012.08.21  
 Start Time: 03:30:05 End Time: 11:43:14 Time On Btm: 2012.08.21 @ 05:21:45  
 Time Off Btm: 2012.08.21 @ 09:24:15

**TEST COMMENT:** 30 - IF- BoB in 12 min.  
 60 - IS- No Return  
 60 - FF- BoB in 20 min.  
 90 - FS- Surface Return started at 7 min. Died at 45 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1576.03	91.95	Initial Hydro-static
1	65.26	92.02	Open To Flow (1)
30	159.07	93.72	Shut-In(1)
91	812.75	93.68	End Shut-In(1)
92	159.73	93.61	Open To Flow (2)
151	254.61	95.03	Shut-In(2)
241	790.42	95.29	End Shut-In(2)
243	1548.83	95.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	MW 10M 90W	0.91
315.00	OCWM 50M 30W 20o	4.42
10.00	Free Oil 100o	0.14

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 45649

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2012.08.21 @ 03:30:00

## Tool Information

Drill Pipe:	Length: 3121.00 ft	Diameter: 3.80 inches	Volume: 43.78 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.69 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3321.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool slid approx 10' to Bottom

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3293.00	
Shut In Tool	5.00			3298.00	
Hydraulic tool	5.00			3303.00	
Jars	5.00			3308.00	
Safety Joint	3.00			3311.00	
Packer	5.00			3316.00	29.00 Bottom Of Top Packer
Packer	5.00			3321.00	
Stubb	1.00			3322.00	
Recorder	0.00	8648	Inside	3322.00	
Recorder	0.00	6799	Inside	3322.00	
Perforations	7.00			3329.00	
Change Over Sub	1.00			3330.00	
Drill Pipe	63.00			3393.00	
Change Over Sub	1.00			3394.00	
Bullnose	5.00			3399.00	78.00 Bottom Packers & Anchor

**Total Tool Length: 107.00**



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TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 45649

**DST#: 1**

ATTN: Jeff Christian

Test Start: 2012.08.21 @ 03:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

18000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MW 10M 90W	0.915
315.00	OCWM 50M 30W 20o	4.419
10.00	Free Oil 100o	0.140

Total Length: 511.00 ft      Total Volume: 5.474 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 31 @ 90 deg= 28 cor.

RW .32 @ 84 = 28000ppm

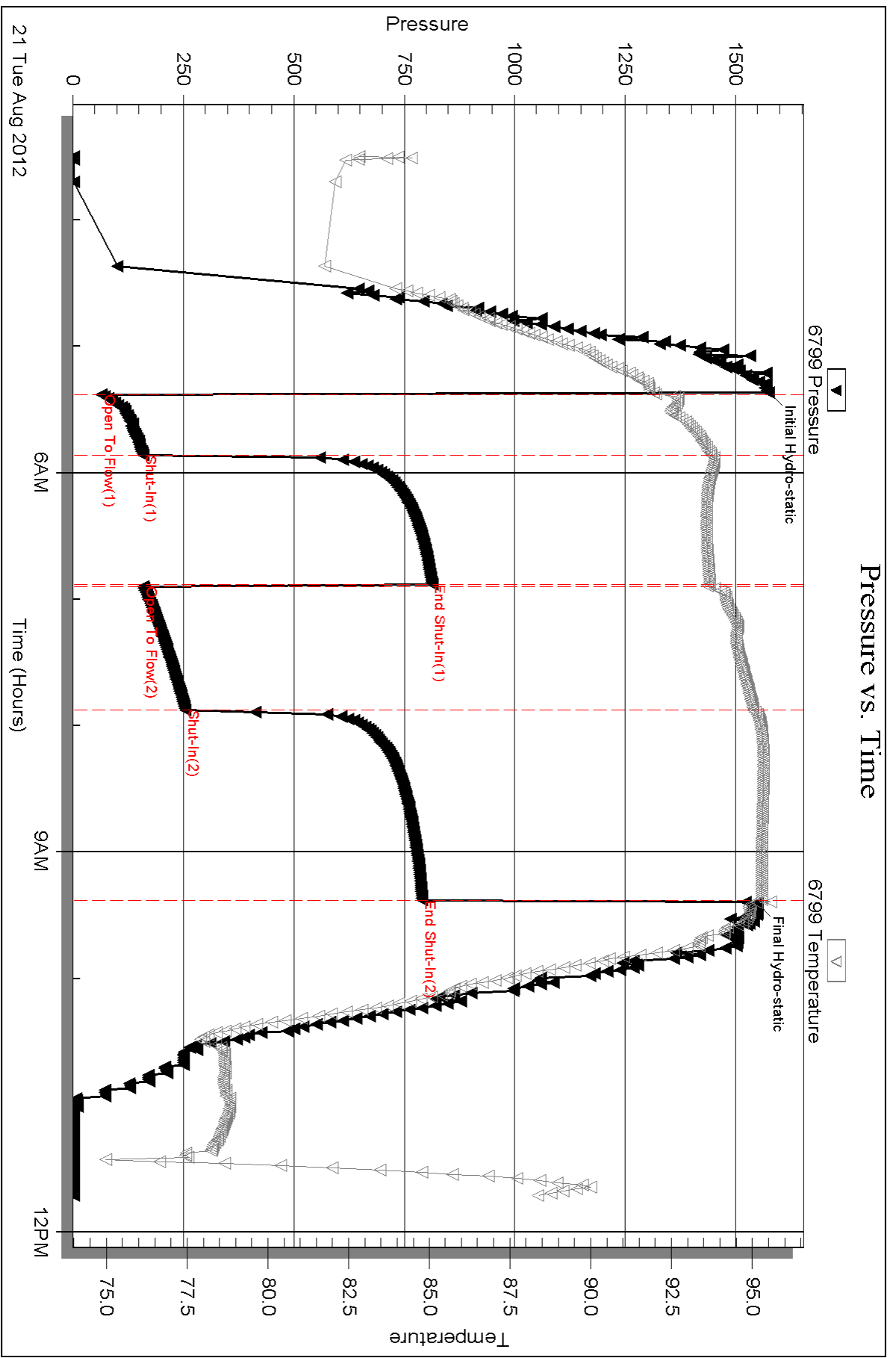
Serial #: 6799

Inside

Murfin Drilling, Co

Schw ab 'A' #2-5

DST Test Number: 1



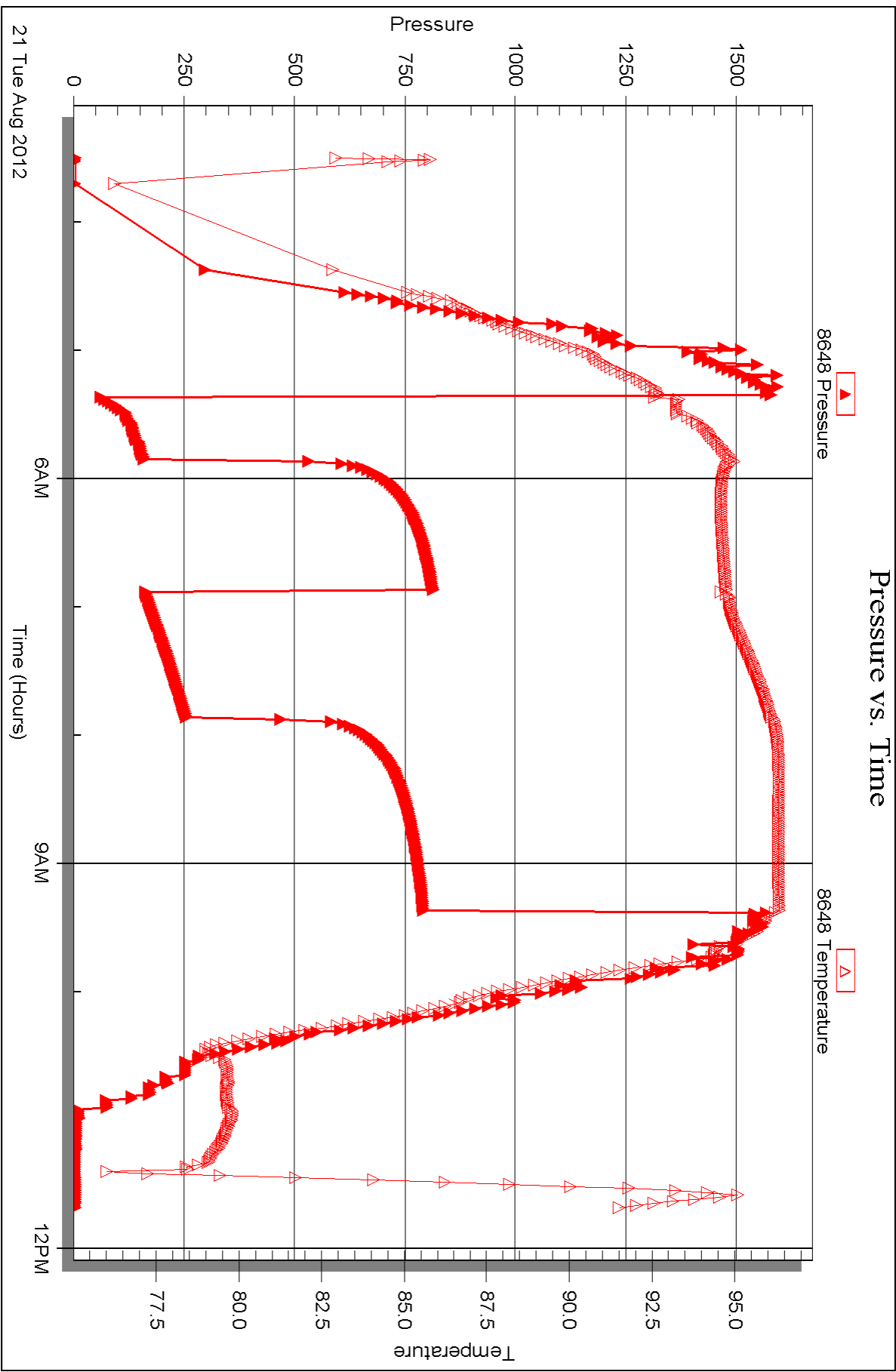
Serial #: 8648

Inside

Murfin Drilling, Co

Schw ab 'A' #2-5

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling, Co**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Jeff Christian

### **Schwab 'A' #2-5**

#### **5-2s-26w Decatur, KS**

Start Date: 2012.08.21 @ 19:26:00

End Date: 2012.08.22 @ 02:05:15

Job Ticket #: 45650                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.27 @ 14:08:01

Murfin Drilling, Co  
5-2s-26w Decatur, KS  
Schwab 'A' #2-5  
DST # 2  
LKC" B-D"  
2012.08.21





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling, Co  
250 N Water STE #300  
Wichita, KS 67202  
ATTN: Jeff Christian

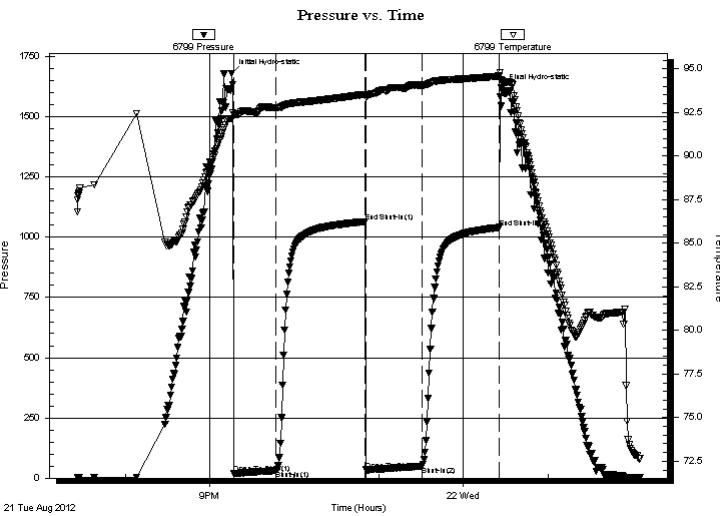
**5-2s-26w Decatur, KS**  
**Schwab 'A' #2-5**  
Job Ticket: 45650      **DST#: 2**  
Test Start: 2012.08.21 @ 19:26:00

## GENERAL INFORMATION:

Formation: **LKC "B-D"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:17:00  
Time Test Ended: 02:05:15  
Interval: **3396.00 ft (KB) To 3440.00 ft (KB) (TVD)**  
Total Depth: 3440.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Kevin Mack  
Unit No: 43  
Reference Elevations: 2594.00 ft (KB)  
2589.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6799      Inside**  
Press @ Run Depth: 49.14 psig @ 3397.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.08.21      End Date: 2012.08.22      Last Calib.: 2012.08.22  
Start Time: 19:26:05      End Time: 02:05:14      Time On Btm: 2012.08.21 @ 21:15:30  
Time Off Btm: 2012.08.22 @ 00:27:00

**TEST COMMENT:** 30 - IF- Weak surface Blow built to 3/4"  
60 - IS- No Return  
30 - FF- No Blow  
60 - FS- No Return



## PRESSURE SUMMARY

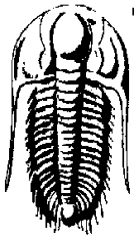
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1680.85	92.16	Initial Hydro-static
2	19.31	92.36	Open To Flow (1)
32	32.02	92.77	Shut-In(1)
95	1064.33	93.54	End Shut-In(1)
96	34.28	93.37	Open To Flow (2)
135	49.14	94.07	Shut-In(2)
190	1040.52	94.58	End Shut-In(2)
192	1619.14	94.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100M	0.32

## Gas Rates

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



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TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling, Co  
250 N Water STE #300  
Wichita, KS 67202  
ATTN: Jeff Christian

**5-2s-26w Decatur, KS**

**Schwab 'A' #2-5**

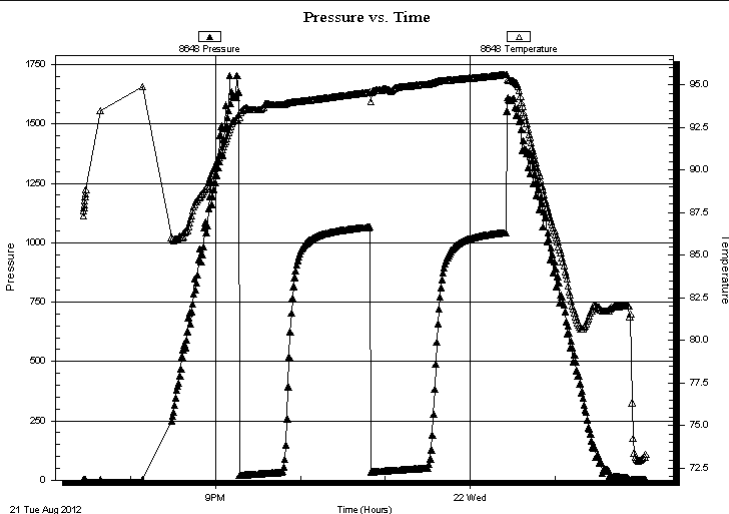
Job Ticket: 45650 **DST#: 2**  
Test Start: 2012.08.21 @ 19:26:00

## GENERAL INFORMATION:

Formation: **LKC "B-D"**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 21:17:00 Tester: Kevin Mack  
Time Test Ended: 02:05:15 Unit No: 43  
Interval: **3396.00 ft (KB) To 3440.00 ft (KB) (TVD)** Reference Elevations: 2594.00 ft (KB)  
Total Depth: 3440.00 ft (KB) (TVD) 2589.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

**Serial #: 8648 Inside**  
Press @ Run Depth: psig @ 3397.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.08.21 End Date: 2012.08.22 Last Calib.: 2012.08.22  
Start Time: 19:26:35 End Time: 02:03:59 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 30 - IF- Weak surface Blow built to 3/4"  
60 - IS- No Return  
30 - FF- No Blow  
60 - FS- No Return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud 100M	0.32

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 45650

**DST#: 2**

ATTN: Jeff Christian

Test Start: 2012.08.21 @ 19:26:00

## Tool Information

Drill Pipe:	Length: 3186.00 ft	Diameter: 3.80 inches	Volume: 44.69 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 45.60 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3396.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	73.00 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			3368.00	
Shut In Tool	5.00			3373.00	
Hydraulic tool	5.00			3378.00	
Jars	5.00			3383.00	
Safety Joint	3.00			3386.00	
Packer	5.00			3391.00	29.00 Bottom Of Top Packer
Packer	5.00			3396.00	
Stubb	1.00			3397.00	
Recorder	0.00	8648	Inside	3397.00	
Recorder	0.00	6799	Inside	3397.00	
Perforations	5.00			3402.00	
Change Over Sub	1.00			3403.00	
Drill Pipe	31.00			3434.00	
Change Over Sub	1.00			3435.00	
Bullnose	5.00			3440.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 45650

**DST#: 2**

ATTN: Jeff Christian

Test Start: 2012.08.21 @ 19:26:00

## 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud 100M	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

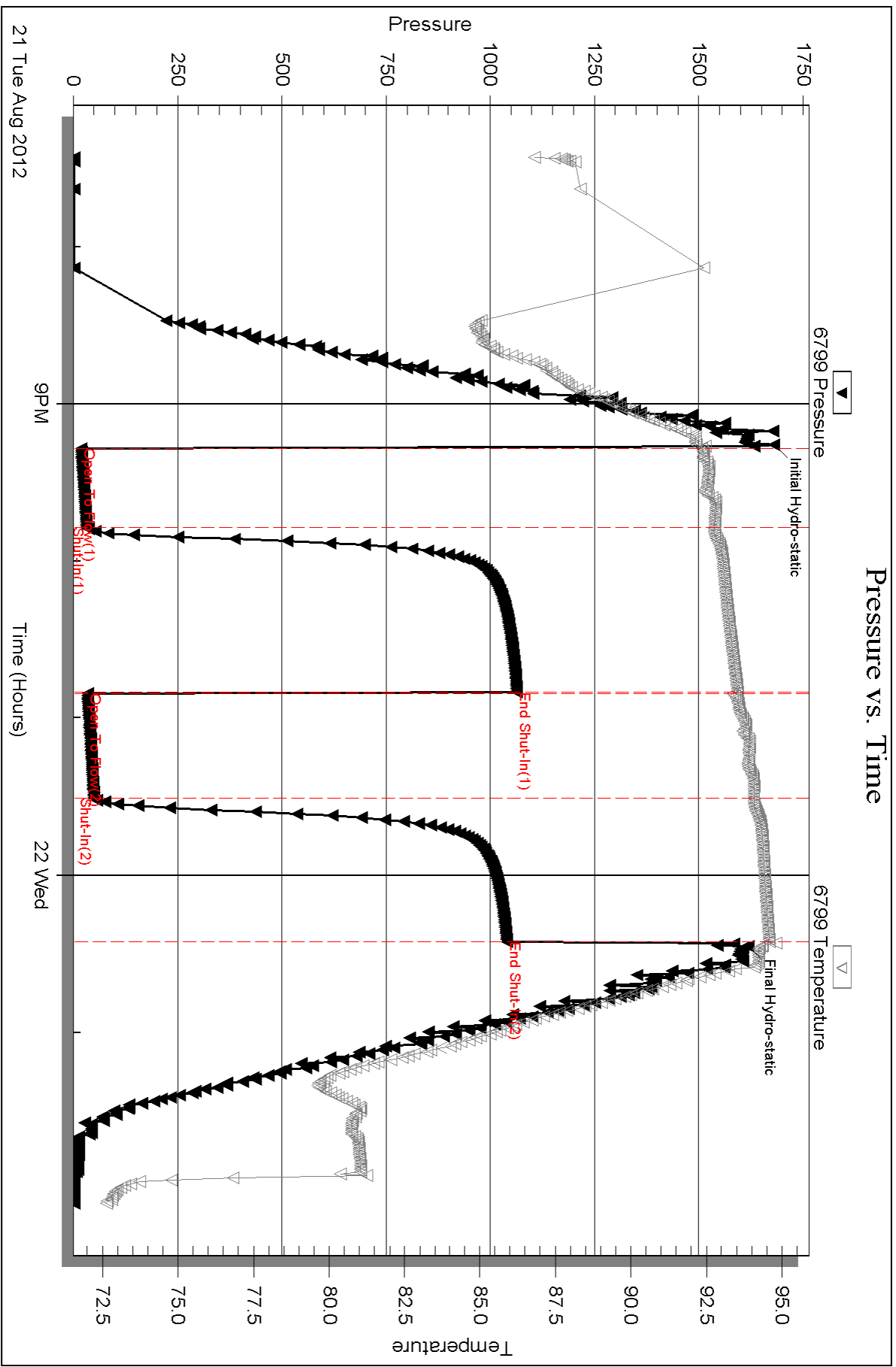
Serial #: 6799

Inside

Murfin Drilling, Co

Schwab 'A' #2-5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45650

Printed: 2012.08.27 @ 14:08:05

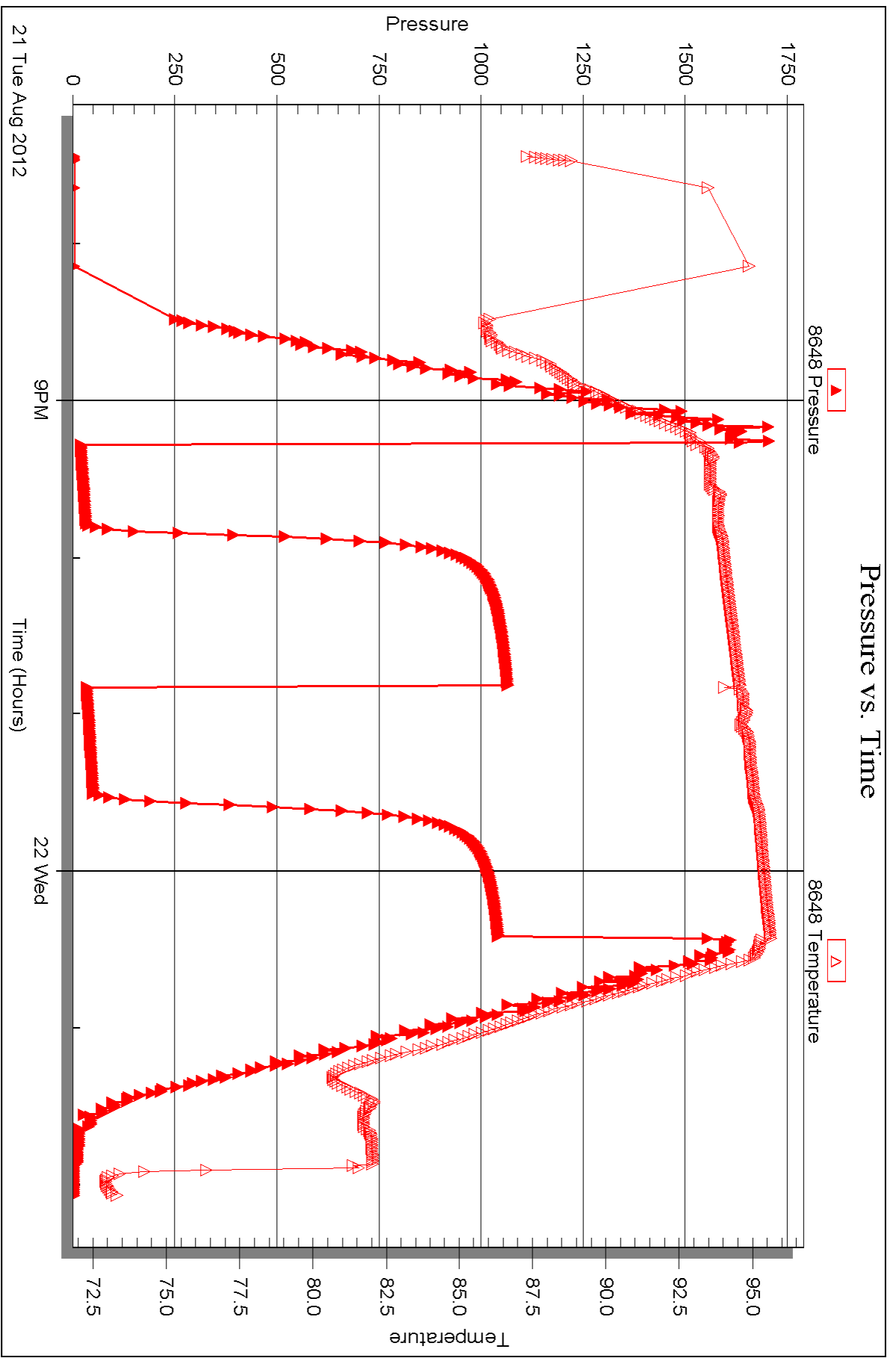
Serial #: 8648

Inside

Murfin Drilling, Co

Schw ab 'A' #2-5

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45650

Printed: 2012.08.27 @ 14:08:06



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling, Co**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Jeff Christian

### **Schwab 'A' #2-5**

#### **5-2s-26w Decatur, KS**

Start Date: 2012.08.22 @ 14:03:00

End Date: 2012.08.22 @ 22:22:15

Job Ticket #: 48051                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.27 @ 14:05:57

Murfin Drilling, Co  
5-2s-26w Decatur, KS  
Schwab 'A' #2-5  
DST # 3  
LKC "H-K"  
2012.08.22



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling, Co  
250 N Water STE #300  
Wichita, KS 67202  
ATTN: Jeff Christian

**5-2s-26w Decatur, KS**

**Schwab 'A' #2-5**

Job Ticket: 48051

**DST#: 3**

Test Start: 2012.08.22 @ 14:03:00

## GENERAL INFORMATION:

Formation: **LKC "H-K"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:50:45  
 Time Test Ended: 22:22:15  
 Interval: **3475.00 ft (KB) To 3580.00 ft (KB) (TVD)**  
 Total Depth: 3580.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Mack  
 Unit No: 43  
 Reference Elevations: 2594.00 ft (KB)  
 2589.00 ft (CF)  
 KB to GR/CF: 5.00 ft

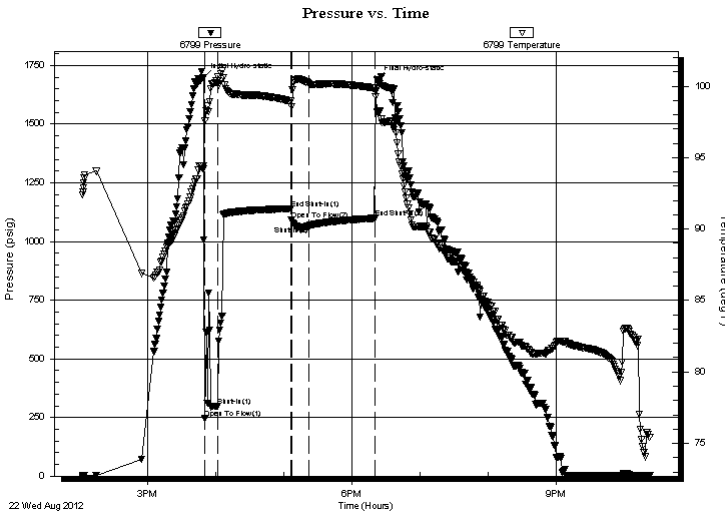
## Serial #: 6799

Inside

Press @ Run Depth: 1066.31 psig @ 3476.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.08.22 End Date: 2012.08.22 Last Calib.: 2012.08.22  
 Start Time: 14:03:05 End Time: 22:22:14 Time On Btm: 2012.08.22 @ 15:49:30  
 Time Off Btm: 2012.08.22 @ 18:21:45

TEST COMMENT: 15 - IF- BoB in 30 seconds.  
 60 - IS- No Return  
 15 - FF- BoB in 15 seconds.  
 60 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.83	94.21	Initial Hydro-static
2	245.15	97.59	Open To Flow (1)
13	298.98	100.66	Shut-In(1)
77	1139.35	98.95	End Shut-In(1)
78	1091.46	98.59	Open To Flow (2)
93	1066.31	100.20	Shut-In(2)
151	1098.77	99.87	End Shut-In(2)
153	1688.83	98.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
738.00	MW 5M 95W	8.66
496.00	Gassy Clean free oil 20G 80o	6.96
372.00	GMWCO 5M 20W 60o 15G	5.22
372.00	MWCO 20M 30W 50o	5.22
372.00	MWCO 10M 30W 60o	5.22

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 48051

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2012.08.22 @ 14:03:00

## Tool Information

Drill Pipe:	Length: 3283.00 ft	Diameter: 3.80 inches	Volume: 46.05 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 46.96 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3475.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	134.00 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			3447.00	
Shut In Tool	5.00			3452.00	
Hydraulic tool	5.00			3457.00	
Jars	5.00			3462.00	
Safety Joint	3.00			3465.00	
Packer	5.00			3470.00	29.00 Bottom Of Top Packer
Packer	5.00			3475.00	
Stubb	1.00			3476.00	
Recorder	0.00	8648	Inside	3476.00	
Recorder	0.00	6799	Inside	3476.00	
Perforations	5.00			3481.00	
Change Over Sub	1.00			3482.00	
Drill Pipe	94.00			3576.00	
Change Over Sub	1.00			3577.00	
Bullnose	3.00			3580.00	105.00 Bottom Packers & Anchor

**Total Tool Length: 134.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling, Co

**5-2s-26w Decatur, KS**

250 N Water STE #300  
Wichita, KS 67202

**Schwab 'A' #2-5**

Job Ticket: 48051

**DST#: 3**

ATTN: Jeff Christian

Test Start: 2012.08.22 @ 14:03:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
738.00	MW 5M 95W	8.658
496.00	Gassy Clean free oil 20G 80o	6.958
372.00	GMWCO 5M 20W 60o 15G	5.218
372.00	MWCO 20M 30W 50o	5.218
372.00	MWCO 10M 30W 60o	5.218

Total Length: 2350.00 ft      Total Volume: 31.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 32 @ 80 deg. = 30 cor.

Serial #: 6799

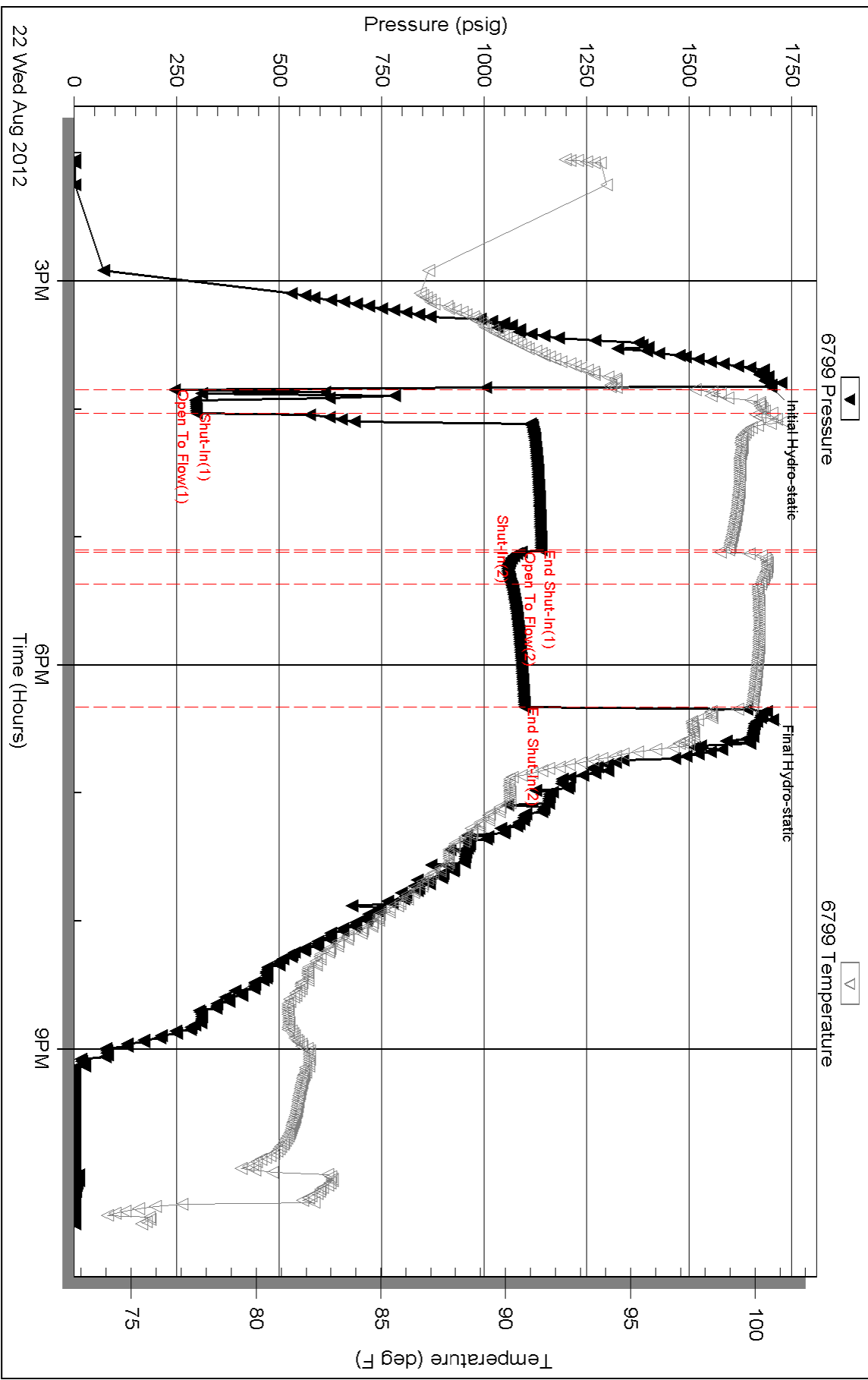
Inside

Murfin Drilling, Co

Schwab 'A' #2-5

DST Test Number: 3

### Pressure vs. Time



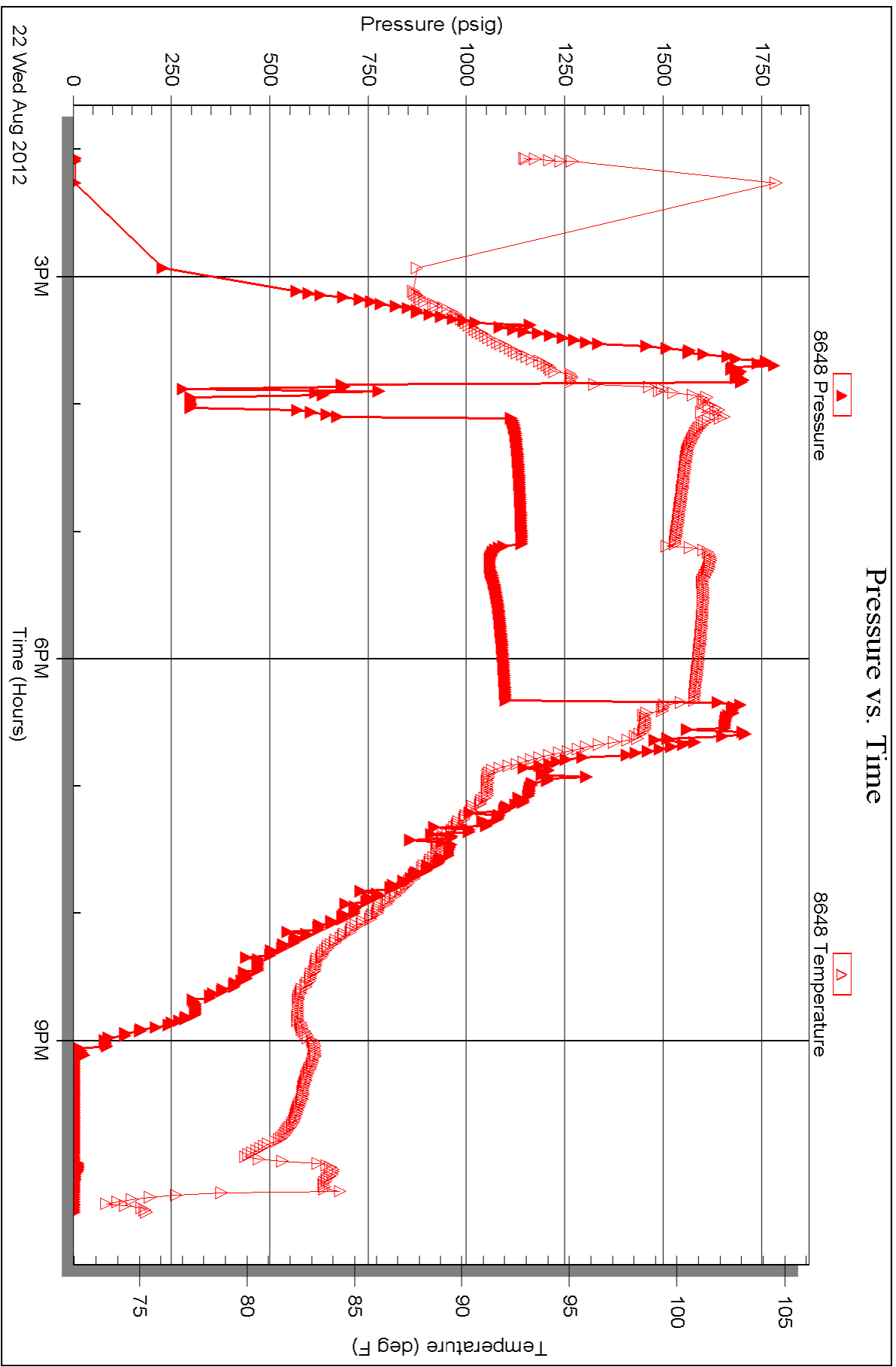
Serial #: 8648

Inside

Murfin Drilling, Co

Schwab 'A' #2-5

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45649

4/10

Well Name & No. Schwab 'A' #2-5 Test No. 1 Date 8-21-12  
 Company Murphy Drilling Co. Elevation 2594 KB 2589 GL  
 Address 250 N Water STE #300 Wichita, KS 67202  
 Co. Rep / Geo. Jeff Christian Rig Murphy #8  
 Location: Sec. 5 Twp. 2S Rge. 26W Co. Decatur State KS

Interval Tested 3321-3399 Zone Tested Oread, Toronto, LKC "A"  
 Anchor Length 78' Drill Pipe Run 3121 Mud Wt. 8.9  
 Top Packer Depth 3317 Drill Collars Run 186' Vis 58  
 Bottom Packer Depth 3321 Wt. Pipe Run Ø WL 6.4  
 Total Depth 3399 Chlorides 3,500 ppm System LCM 5#

Blow Description IF- BoB in 12 min.  
IS- No Return  
FF- BoB in 20 min.  
FS- Surface Return started at 7 min. Died at 45 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Free oil</u>	<u>100</u>			
<u>315</u>	<u>OCUM</u>	<u>20</u>	<u>30</u>	<u>50</u>	
<u>186</u>	<u>MW</u>		<u>90</u>	<u>10</u>	

Rec Total 511 BHT 95 Gravity 28 API RW .32 @ 84 °F Chlorides 8,000 ppm

(A) Initial Hydrostatic <u>1576</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2:53 AM</u>
(B) First Initial Flow <u>65</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:30 AM</u>
(C) First Final Flow <u>159</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:22 AM</u>
(D) Initial Shut-In <u>812</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>9:22 AM</u>
(E) Second Initial Flow <u>159</u>	<input type="checkbox"/> Hourly Standby	T-Out
(F) Second Final Flow <u>254</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> <u>62</u>	Comments <u>Tud slid approx 10' to bottom</u>
(G) Final Shut-In <u>790</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1548</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1537</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1537</u>	

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

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 45650

4/10

Well Name & No. Schwab 'A' # 2-5 Test No. 2 Date 8-21-12  
 Company Murrin Drilling, Co. Elevation 2594 KB 2589 GL  
 Address 250 N Water STE #300 Wichita, KS 67202  
 Co. Rep / Geo. Jeff Christian Rig Murrin #8  
 Location: Sec. 5 Twp. 2s Rge. 26w Co. Decatur State \_\_\_\_\_

Interval Tested 3396-3440 Zone Tested LKC "B+D"  
 Anchor Length 44' Drill Pipe Run 3186 Mud Wt. 9.0  
 Top Packer Depth 3392 Drill Collars Run 186' Vis 48  
 Bottom Packer Depth 3396 Wt. Pipe Run \_\_\_\_\_ WL 6.4  
 Total Depth 3440 Chlorides 2000 ppm System LCM 4#  
 Blow Description IF = Weak surface blow built to 3/4"  
IS - NO Return  
FF - NO Blow  
FS - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>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	Feet of	%gas	%oil	%water	%mud

Rec Total 65 BHT 95 Gravity - API RW - @ - °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1680</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>6:50 PM</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>7:26 PM</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>9:17 PM</u>
(D) Initial Shut-In <u>1064</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>12:30 AM</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2:05 AM</u>
(F) Second Final Flow <u>49</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 62	Comments _____
(G) Final Shut-In <u>1040</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1619</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1537</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1537</u>	

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

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 48051

Well Name & No. Schwab 'A' #2-5 Test No. 3 Date 8-22-12  
 Company Murrian Drilling Co. Elevation 2594 KB 2589 GL  
 Address 250 N Water STE #300 Wichita, KS 67202  
 Co. Rep / Geo. Jeff Christian Rig Murrian #8  
 Location: Sec. 5 Twp. 2s Rge. 26W Co. Decatur State KS

Interval Tested 3475-3580 Zone Tested LKC "H-K"  
 Anchor Length 105' Drill Pipe Run 3283 Mud Wt. 8.9  
 Top Packer Depth 3471 Drill Collars Run 186' Vis 64  
 Bottom Packer Depth 3475 Wt. Pipe Run Ø WL 6.0  
 Total Depth 3580 Chlorides 2,000 ppm System LCM 6#  
 Blow Description IF - BOB in 30 seconds.  
IS - no Return  
FF - BOB in 15 seconds  
FS - no Return

Rec	Feet of	%gas	%oil	%water	%mud
372	MWCO	60	30	10	
372	MWCO	50	30	20	
372	SMWCO	15	60	20	5
496	Clean KME oil	20	80		
738	MW		95	5	

Rec Total 2350 BHT 100 Gravity 30 API RW @      °F Chlorides      ppm

(A) Initial Hydrostatic 1698  Test 1150 T-On Location 1:45 PM  
 (B) First Initial Flow 245  Jars 250 T-Started 2:03 PM  
 (C) First Final Flow 298  Safety Joint 75 T-Open 3:50 PM  
 (D) Initial Shut-In 1139  Circ Sub NIC T-Pulled 6:20 PM  
 (E) Second Initial Flow 1091  Hourly Standby T-Out 10:23 PM  
 (F) Second Final Flow 1066  Mileage 40 RT 62 Comments       
 (G) Final Shut-In 1098  Sampler       
 (H) Final Hydrostatic 1688  Straddle       
 Shale Packer       
 Ruined Shale Packer       
 Ruined Packer       
 Extra Packer       
 Extra Copies       
 Extra Recorder       
 Day Standby       
 Accessibility       
 Sub Total 1537 Sub Total 0  
 Total 1537 MP/DST Disc't     

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

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