



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc,**

250 N Water STE 300  
Wichita, KS 67202

ATTN: Wes Hansen

**Sramek "B" #1-11**

**11-3s-36w Rawlins,KS**

Start Date: 2012.09.04 @ 15:42:00

End Date: 2012.09.04 @ 23:56:30

Job Ticket #: 50136                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.13 @ 13:50:14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**

**Sramek "B" #1-11**

Job Ticket: 50136

**DST#: 1**

Test Start: 2012.09.04 @ 15:42:00

## GENERAL INFORMATION:

Formation: **Lansing "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:05:00

Time Test Ended: 23:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

**Interval: 4118.00 ft (KB) To 4185.00 ft (KB) (TVD)**

Reference Elevations: 3252.00 ft (KB)

Total Depth: 4185.00 ft (KB) (TVD)

3242.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 10.00 ft

**Serial #: 6772 Outside**

Press @ Run Depth: 195.27 psig @ 4119.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.04

End Date:

2012.09.04

Last Calib.:

2012.09.05

Start Time: 15:42:05

End Time:

23:56:29

Time On Btm:

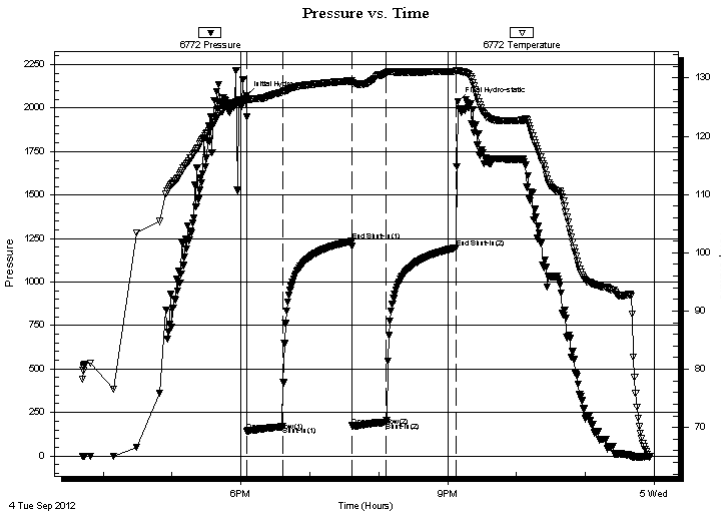
2012.09.04 @ 18:04:30

Time Off Btm:

2012.09.04 @ 21:08:45

**TEST COMMENT:** IF: 6" blow . Tagged on a bridge then hit bottom.  
IS: No return.  
FF: No blow .  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.66	126.41	Initial Hydro-static
1	142.21	126.19	Open To Flow (1)
32	168.15	127.52	Shut-In(1)
92	1233.96	129.51	End Shut-In(1)
93	172.67	129.17	Open To Flow (2)
122	195.27	130.87	Shut-In(2)
183	1195.76	131.15	End Shut-In(2)
185	2037.52	131.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
365.00	Mud 100m	1.80

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**  
**Sramek "B" #1-11**  
Job Ticket: 50136      **DST#: 1**  
Test Start: 2012.09.04 @ 15:42:00

**Tool Information**

Drill Pipe:	Length: 3579.00 ft	Diameter: 3.80 inches	Volume: 50.20 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 52.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4118.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	96.00 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			4090.00	
Shut In Tool	5.00			4095.00	
Hydraulic tool	5.00			4100.00	
Jars	5.00			4105.00	
Safety Joint	3.00			4108.00	
Packer	5.00			4113.00	29.00      Bottom Of Top Packer
Packer	5.00			4118.00	
Stubb	1.00			4119.00	
Recorder	0.00	6669	Outside	4119.00	
Recorder	0.00	6772	Outside	4119.00	
Perforations	29.00			4148.00	
Change Over Sub	1.00			4149.00	
Drill Pipe	31.00			4180.00	
Change Over Sub	1.00			4181.00	
Bullnose	4.00			4185.00	67.00      Bottom Packers & Anchor

**Total Tool Length: 96.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**  
**Sramek "B" #1-11**  
Job Ticket: 50136      **DST#: 1**  
Test Start: 2012.09.04 @ 15:42:00

## 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: bbl		
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

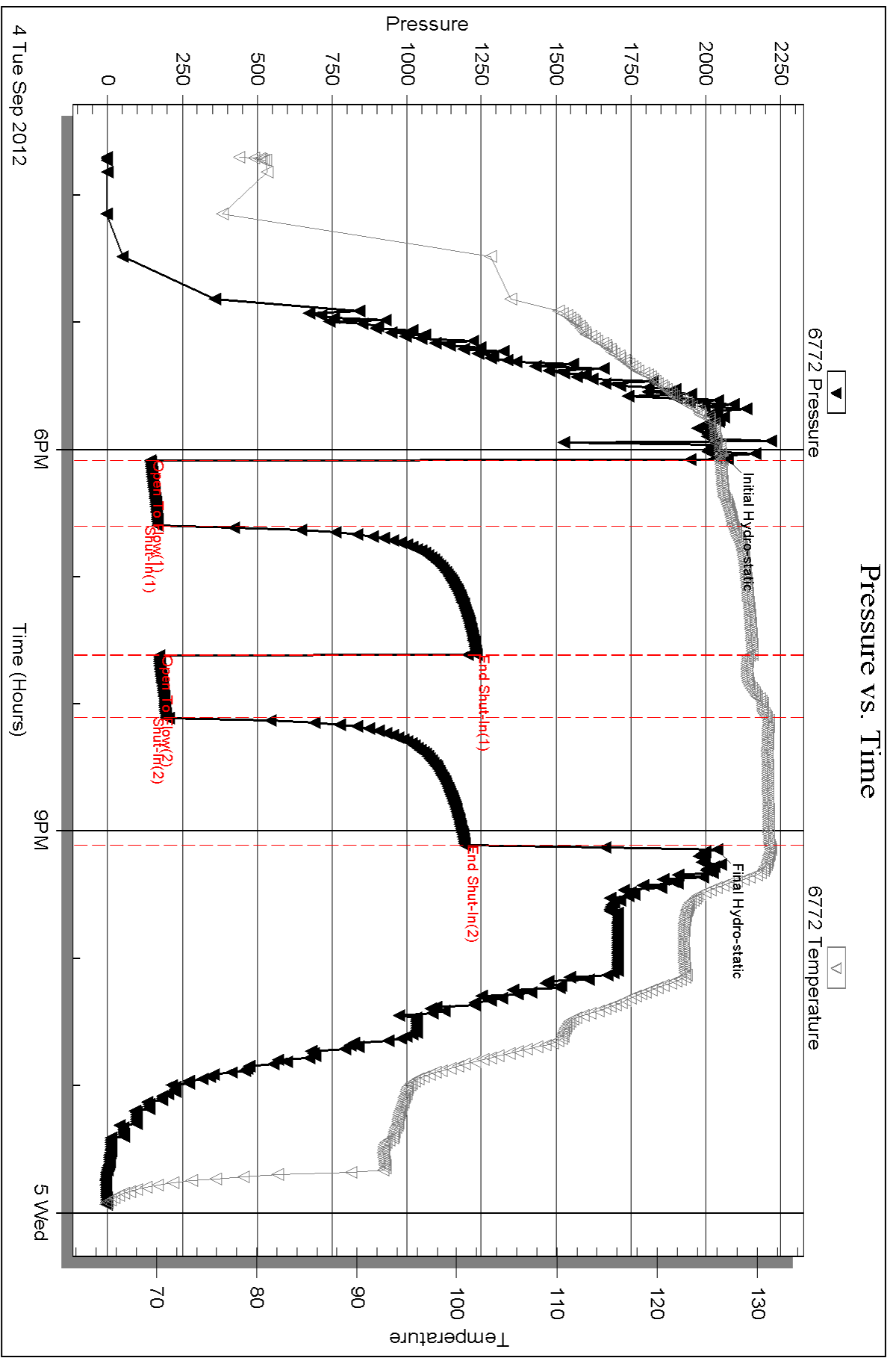
Length ft	Description	Volume bbl
365.00	Mud 100m	1.795

Total Length: 365.00 ft      Total Volume: 1.795 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: Tagged Bottom early

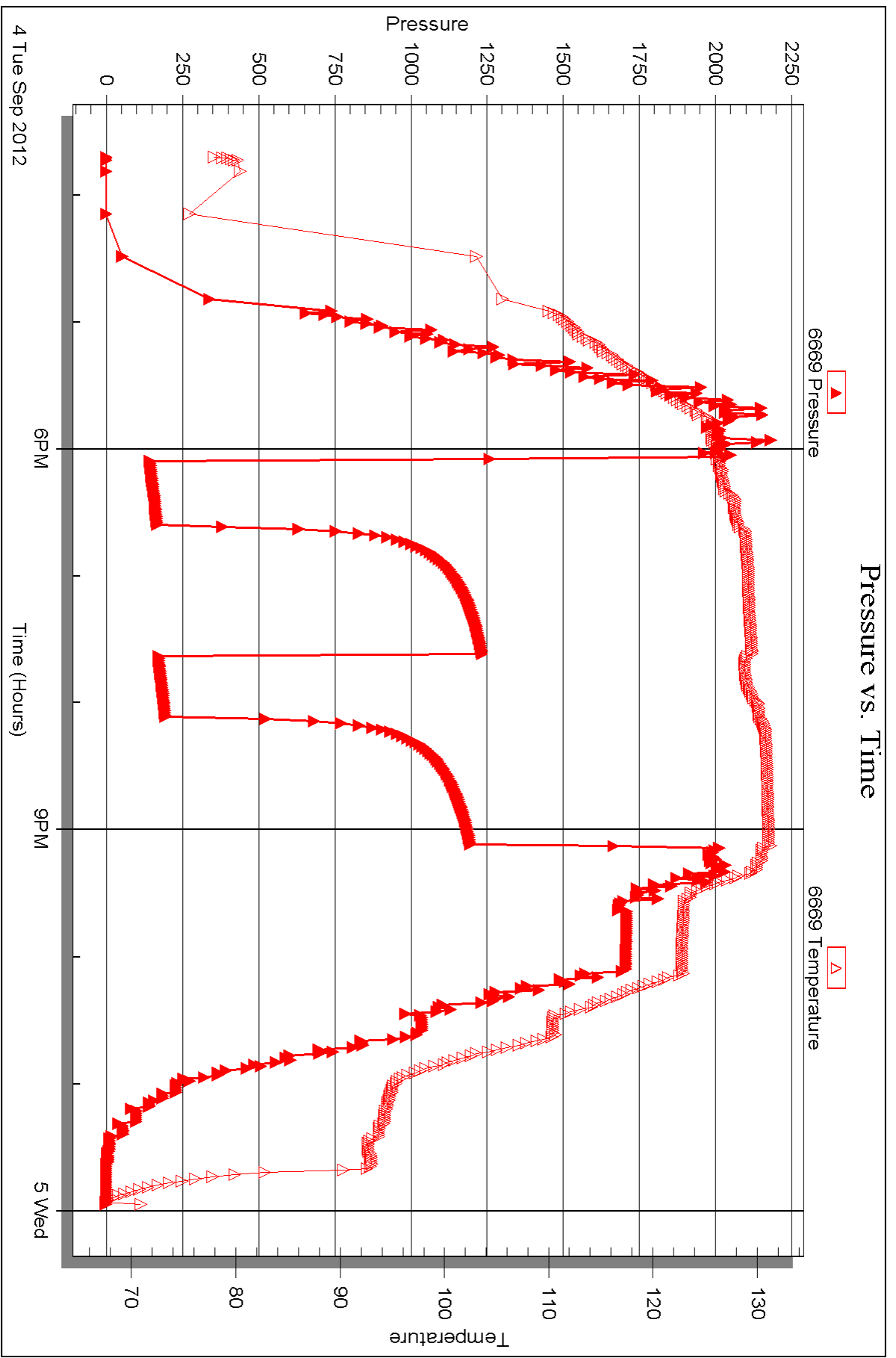


Serial #: 6669

Outside Murfin Drilling Co. Inc.

Stamok "B" #1-11

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc,**

250 N Water STE 300  
Wichita, KS 67202

ATTN: Wes Hansen

**Sramek "B" #1-11**

**11-3s-36w Rawlins,KS**

Start Date: 2012.09.05 @ 22:47:00

End Date: 2012.09.06 @ 06:17:00

Job Ticket #: 50137                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.13 @ 13:49:30





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,  
 250 N Water STE 300  
 Wichita, KS 67202  
 ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**

**Sramek "B" #1-11**

Job Ticket: 50137

**DST#: 2**

Test Start: 2012.09.05 @ 22:47:00

## GENERAL INFORMATION:

Formation: **Lansing " I, J "**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 01:11:30  
 Tester: Sam Esparza  
 Time Test Ended: 06:17:00  
 Unit No: 64  
 Interval: **4336.00 ft (KB) To 4380.00 ft (KB) (TVD)**  
 Reference Elevations: 3252.00 ft (KB)  
 Total Depth: 4380.00 ft (KB) (TVD)  
 3242.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 KB to GR/CF: 10.00 ft

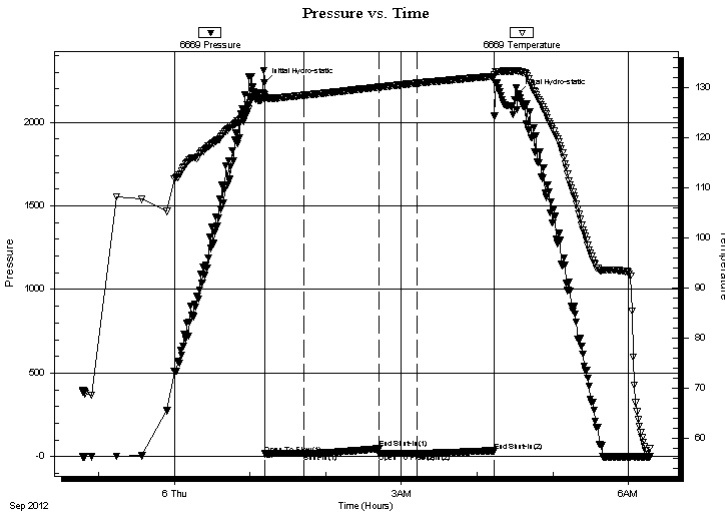
## Serial #: 6669

**Outside**

Press @ RunDepth: 19.31 psig @ 4337.00 ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2012.09.05 End Date: 2012.09.06 Last Calib.: 2012.09.06  
 Start Time: 22:47:05 End Time: 06:16:59 Time On Btm: 2012.09.06 @ 01:11:15  
 Time Off Btm: 2012.09.06 @ 04:32:30

TEST COMMENT: IF: Weak surface blow died @ 24 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2237.56	128.59	Initial Hydro-static
1	16.76	127.63	Open To Flow (1)
32	17.22	128.48	Shut-In(1)
91	47.20	130.08	End Shut-In(1)
91	18.32	130.08	Open To Flow (2)
121	19.31	130.89	Shut-In(2)
182	32.64	132.27	End Shut-In(2)
202	2169.24	133.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100m	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**

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**  
**Sramek "B" #1-11**  
Job Ticket: 50137      **DST#: 2**  
Test Start: 2012.09.05 @ 22:47:00

**Tool Information**

Drill Pipe:	Length: 3800.00 ft	Diameter: 3.80 inches	Volume: 53.30 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 55.91 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4336.00 ft			Final	72000.00 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:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
Change Over Sub	1.00			4308.00	
Shut In Tool	5.00			4313.00	
Hydraulic tool	5.00			4318.00	
Jars	5.00			4323.00	
Safety Joint	3.00			4326.00	
Packer	5.00			4331.00	29.00      Bottom Of Top Packer
Packer	5.00			4336.00	
Stubb	1.00			4337.00	
Recorder	0.00	6669	Outside	4337.00	
Recorder	0.00	6772	Outside	4337.00	
Perforations	6.00			4343.00	
Change Over Sub	1.00			4344.00	
Drill Pipe	31.00			4375.00	
Change Over Sub	1.00			4376.00	
Bullnose	4.00			4380.00	44.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**  
**Sramek "B" #1-11**  
Job Ticket: 50137      **DST#: 2**  
Test Start: 2012.09.05 @ 22:47:00

**Mud and Cushion Information**

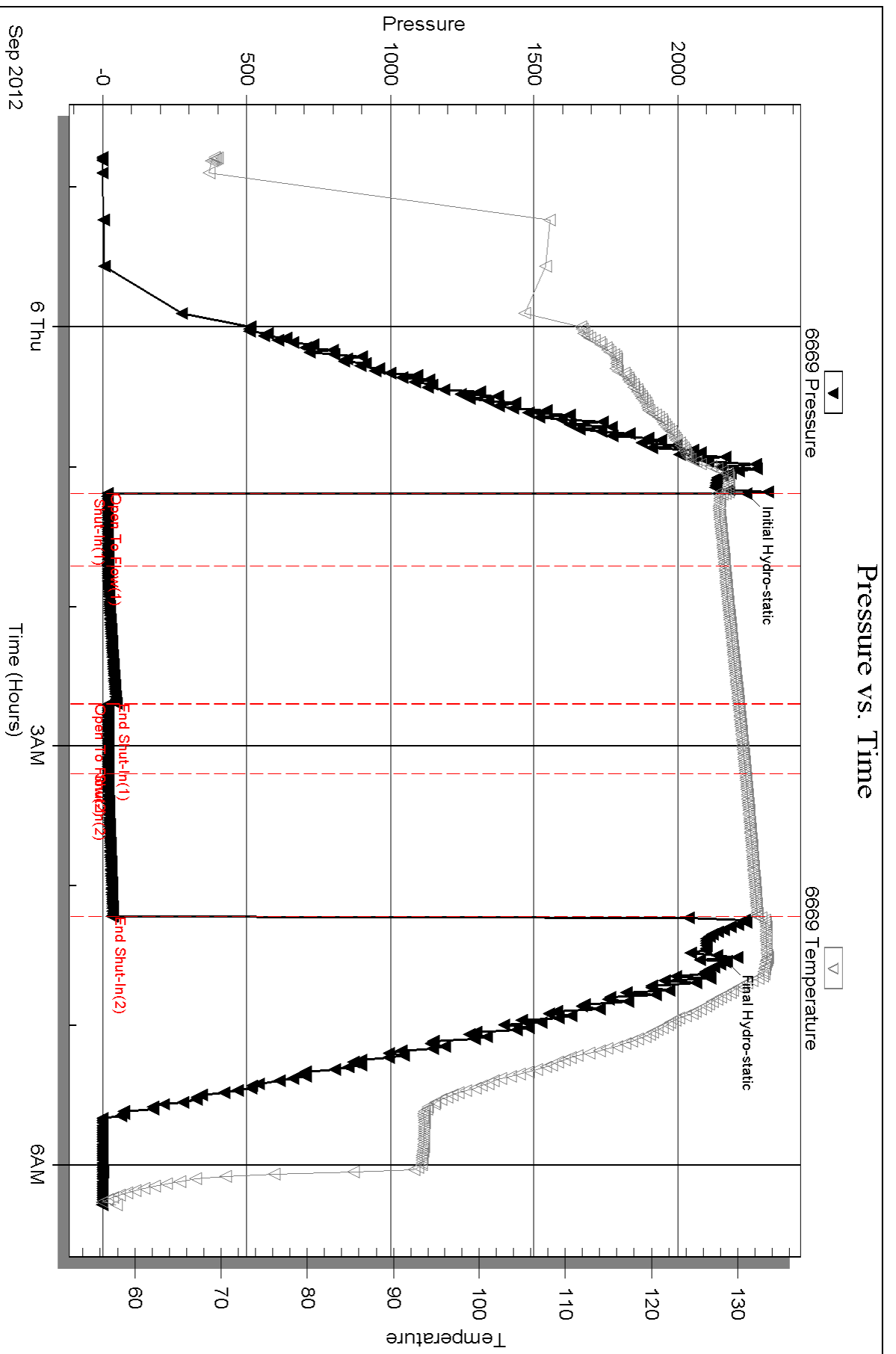
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud 100m	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc,**

250 N Water STE 300  
Wichita, KS 67202

ATTN: Wes Hansen

**Sramek "B" #1-11**

**11-3s-36w Rawlins,KS**

Start Date: 2012.09.07 @ 10:26:00

End Date: 2012.09.07 @ 18:42:30

Job Ticket #: 50138                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.13 @ 13:39:24



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**

**Sramek "B" #1-11**

Job Ticket: 50138

**DST#: 3**

Test Start: 2012.09.07 @ 10:26:00

## GENERAL INFORMATION:

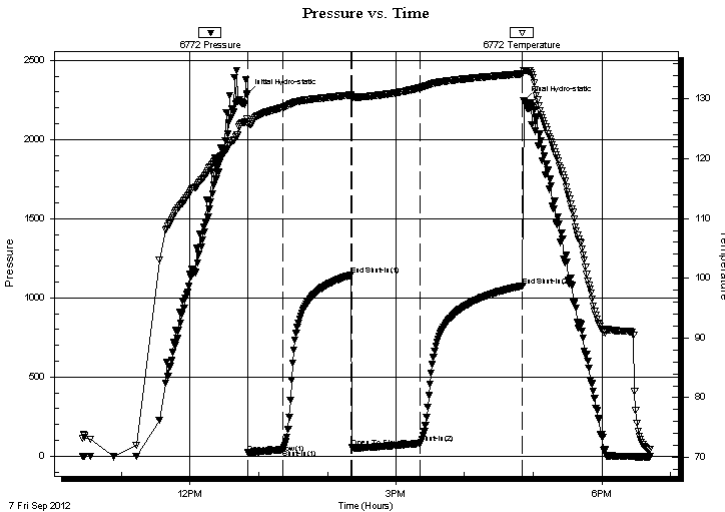
Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 12:50:15  
 Tester: Sam Esparza  
 Time Test Ended: 18:42:30  
 Unit No: 64  
 Interval: **4544.00 ft (KB) To 4600.00 ft (KB) (TVD)**  
 Reference Elevations: 3252.00 ft (KB)  
 Total Depth: 4600.00 ft (KB) (TVD)  
 3242.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: KB to GR/CF: 10.00 ft

## Serial #: 6772 Outside

Press @ Run Depth: 80.22 psig @ 4545.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.09.07 End Date: 2012.09.07 Last Calib.: 2012.09.07  
 Start Time: 10:26:05 End Time: 18:42:29 Time On Btm: 2012.09.07 @ 12:50:00  
 Time Off Btm: 2012.09.07 @ 16:52:00

TEST COMMENT: IF: 3 1/2" blow .  
 IS: No return.  
 FF: 6" blow .  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2290.74	126.64	Initial Hydro-static
1	20.86	125.84	Open To Flow (1)
31	41.49	128.57	Shut-In(1)
91	1144.75	130.68	End Shut-In(1)
92	54.66	130.31	Open To Flow (2)
151	80.22	131.89	Shut-In(2)
241	1076.87	134.23	End Shut-In(2)
242	2248.06	134.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	GMCO 10g 30m 60o	0.47
20.00	GO 15g 85o	0.10
0.00	250' 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**

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**  
**Sramek "B" #1-11**  
Job Ticket: 50138      **DST#: 3**  
Test Start: 2012.09.07 @ 10:26:00

**Tool Information**

Drill Pipe:	Length: 3993.00 ft	Diameter: 3.80 inches	Volume: 56.01 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 58.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	4544.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	85.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			4516.00	
Shut In Tool	5.00			4521.00	
Hydraulic tool	5.00			4526.00	
Jars	5.00			4531.00	
Safety Joint	3.00			4534.00	
Packer	5.00			4539.00	29.00      Bottom Of Top Packer
Packer	5.00			4544.00	
Stubb	1.00			4545.00	
Recorder	0.00	6669	Outside	4545.00	
Recorder	0.00	6772	Outside	4545.00	
Perforations	18.00			4563.00	
Change Over Sub	1.00			4564.00	
Drill Pipe	31.00			4595.00	
Change Over Sub	1.00			4596.00	
Bullnose	4.00			4600.00	56.00      Bottom Packers & Anchor

**Total Tool Length: 85.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**  
**Sramek "B" #1-11**  
Job Ticket: 50138      **DST#: 3**  
Test Start: 2012.09.07 @ 10:26:00

### 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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	GMCO 10g 30m 60o	0.467
20.00	GO 15g 85o	0.098
0.00	250' GIP	0.000

Total Length: 115.00 ft      Total Volume: 0.565 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

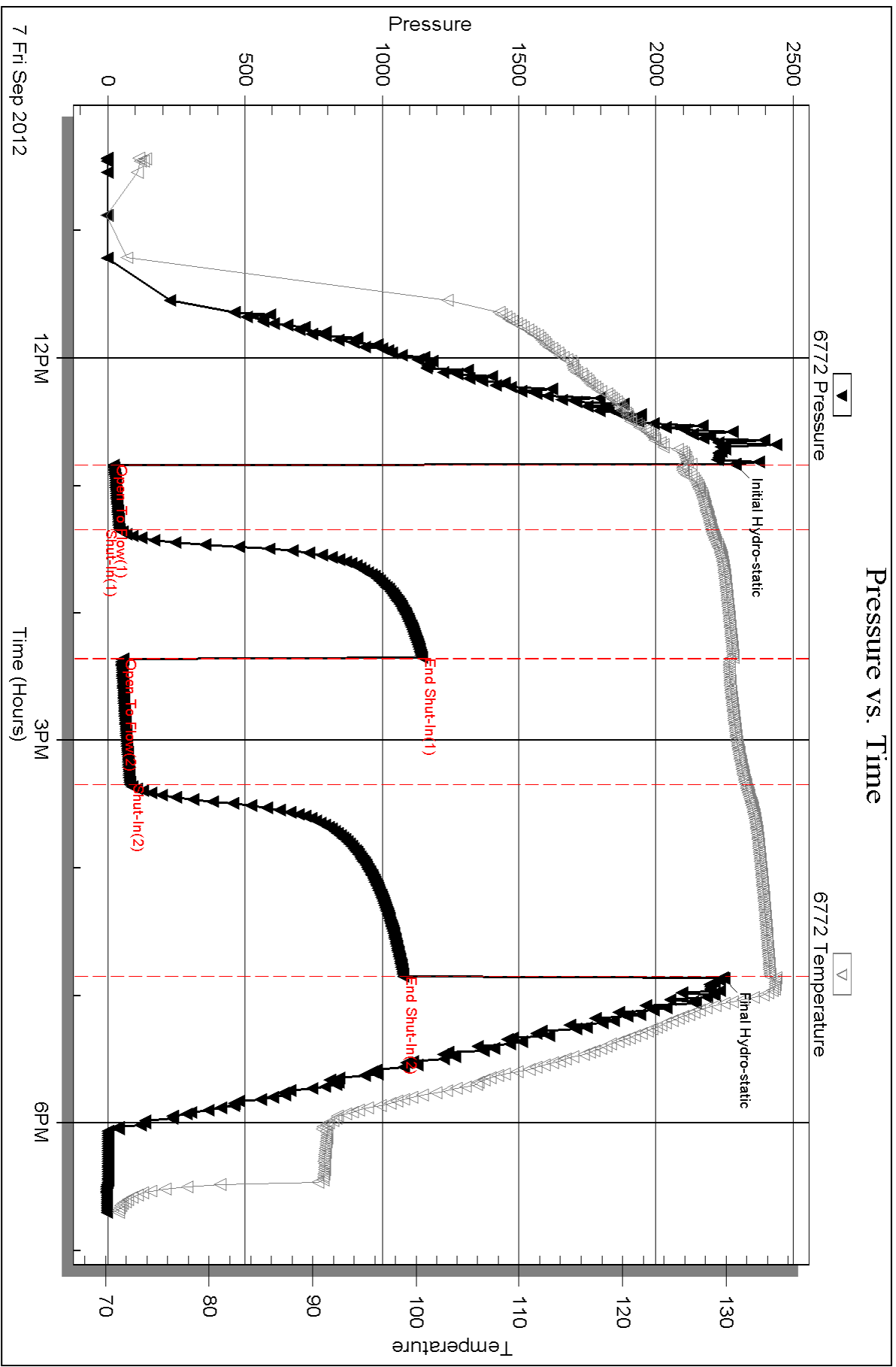
Recovery Comments: Oil API: 28@ 80 degrees= 26 API

Serial #: 6772

Outside Murfin Drilling Co. Inc.

Stamok "B" #1-11

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 50138

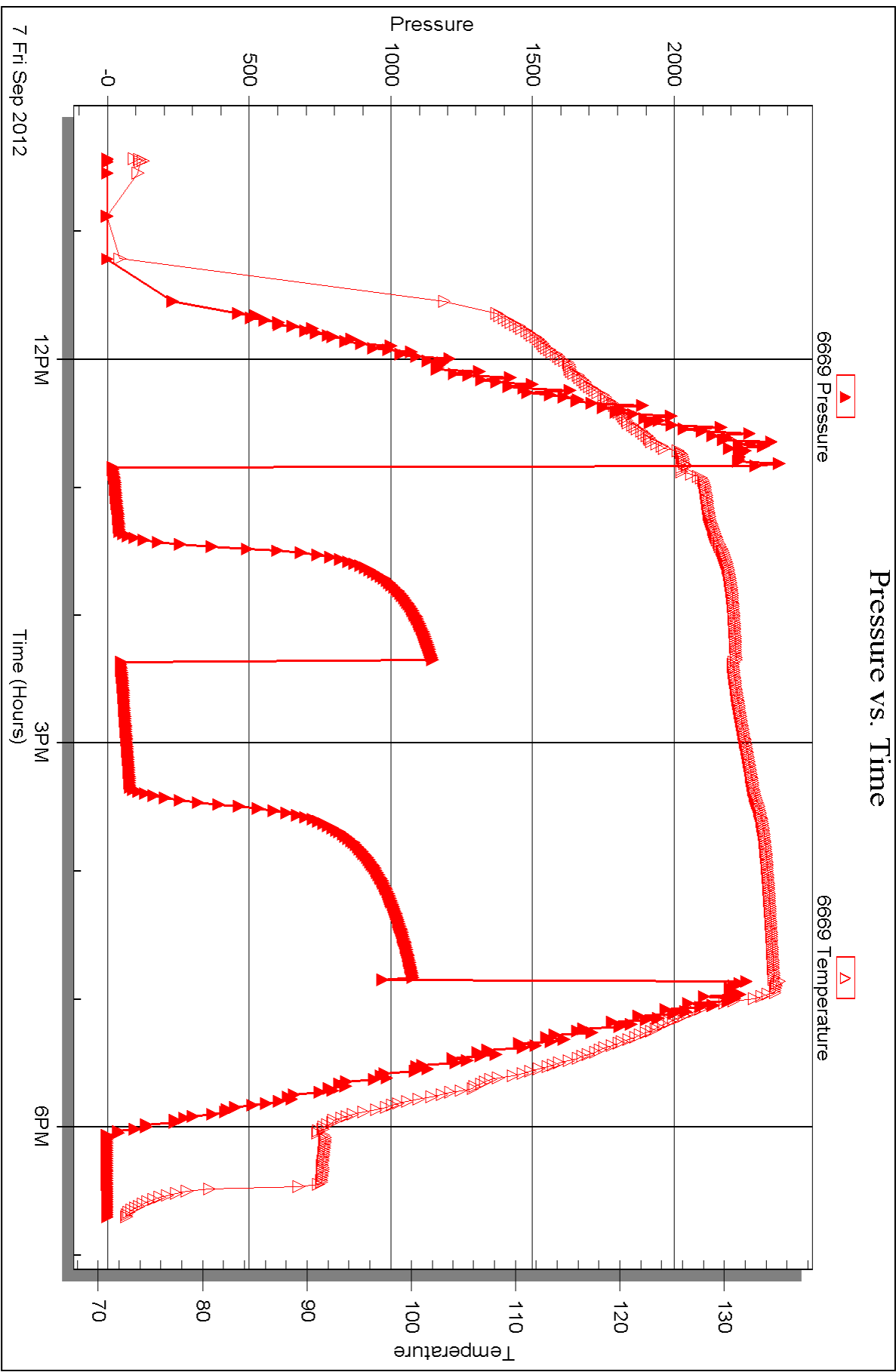
Printed: 2012.09.13 @ 13:39:29

Serial #: 6669

Outside Murfin Drilling Co. Inc.

Stamok "B" #1-11

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co. Inc,**

250 N Water STE 300  
Wichita, KS 67202

ATTN: Wes Hansen

**Sramek "B" #1-11**

**11-3s-36w Rawlins,KS**

Start Date: 2012.09.08 @ 07:26:00

End Date: 2012.09.08 @ 15:31:15

Job Ticket #: 48062                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.09.13 @ 13:38:41

Murfin Drilling Co. Inc,

11-3s-36w Rawlins,KS

Sramek "B" #1-11

DST # 4

Lwr Pawnee - Ft. Sco

2012.09.08



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**

**Sramek "B" #1-11**

Job Ticket: 48062

**DST#: 4**

Test Start: 2012.09.08 @ 07:26:00

## GENERAL INFORMATION:

Formation: **Lwr Pawnee - Ft. Sco**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:45

Time Test Ended: 15:31:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 43

Interval: **4599.00 ft (KB) To 4670.00 ft (KB) (TVD)**

Reference Elevations: 3252.00 ft (KB)

Total Depth: 4670.00 ft (KB) (TVD)

3242.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8648**

**Inside**

Press @ Run Depth: 37.94 psig @ 4600.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.08

End Date:

2012.09.08

Last Calib.:

2012.09.08

Start Time: 07:26:05

End Time:

15:31:14

Time On Btm:

2012.09.08 @ 10:07:45

Time Off Btm:

2012.09.08 @ 13:40:00

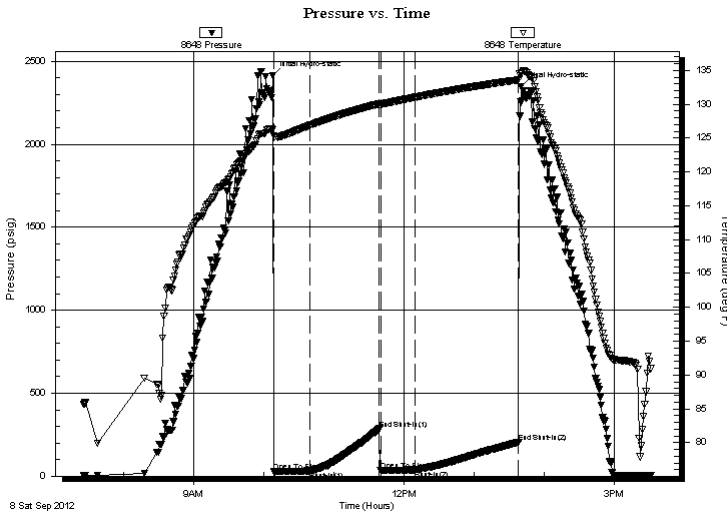
TEST COMMENT: 30 - IF- 1/4" Blow built to 1"

60 - IS- No Return

30 - FF- No Blow

90 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2414.41	126.26	Initial Hydro-static
1	26.07	125.34	Open To Flow (1)
32	31.47	126.89	Shut-In(1)
91	284.83	130.06	End Shut-In(1)
92	33.75	129.97	Open To Flow (2)
122	37.94	131.03	Shut-In(2)
210	204.78	133.59	End Shut-In(2)
213	2347.13	134.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
9.00	OCM 50M 50o	0.04
1.00	Free Oil 100o	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**

**Sramek "B" #1-11**

Job Ticket: 48062

**DST#: 4**

Test Start: 2012.09.08 @ 07:26:00

### Tool Information

Drill Pipe:	Length: 4059.00 ft	Diameter: 3.80 inches	Volume: 56.94 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: 531.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 59.55 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4599.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	100.00 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			4571.00	
Shut In Tool	5.00			4576.00	
Hydraulic tool	5.00			4581.00	
Jars	5.00			4586.00	
Safety Joint	3.00			4589.00	
Packer	5.00			4594.00	29.00 Bottom Of Top Packer
Packer	5.00			4599.00	
Stubb	1.00			4600.00	
Recorder	0.00	8648	Inside	4600.00	
Recorder	0.00	6799	Inside	4600.00	
Perforations	2.00			4602.00	
Change Over Sub	1.00			4603.00	
Drill Pipe	63.00			4666.00	
Change Over Sub	1.00			4667.00	
Bullnose	3.00			4670.00	71.00 Bottom Packers & Anchor

**Total Tool Length: 100.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co. Inc,  
250 N Water STE 300  
Wichita, KS 67202  
ATTN: Wes Hansen

**11-3s-36w Rawlins,KS**  
**Sramek "B" #1-11**  
Job Ticket: 48062      **DST#: 4**  
Test Start: 2012.09.08 @ 07:26:00

## 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: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

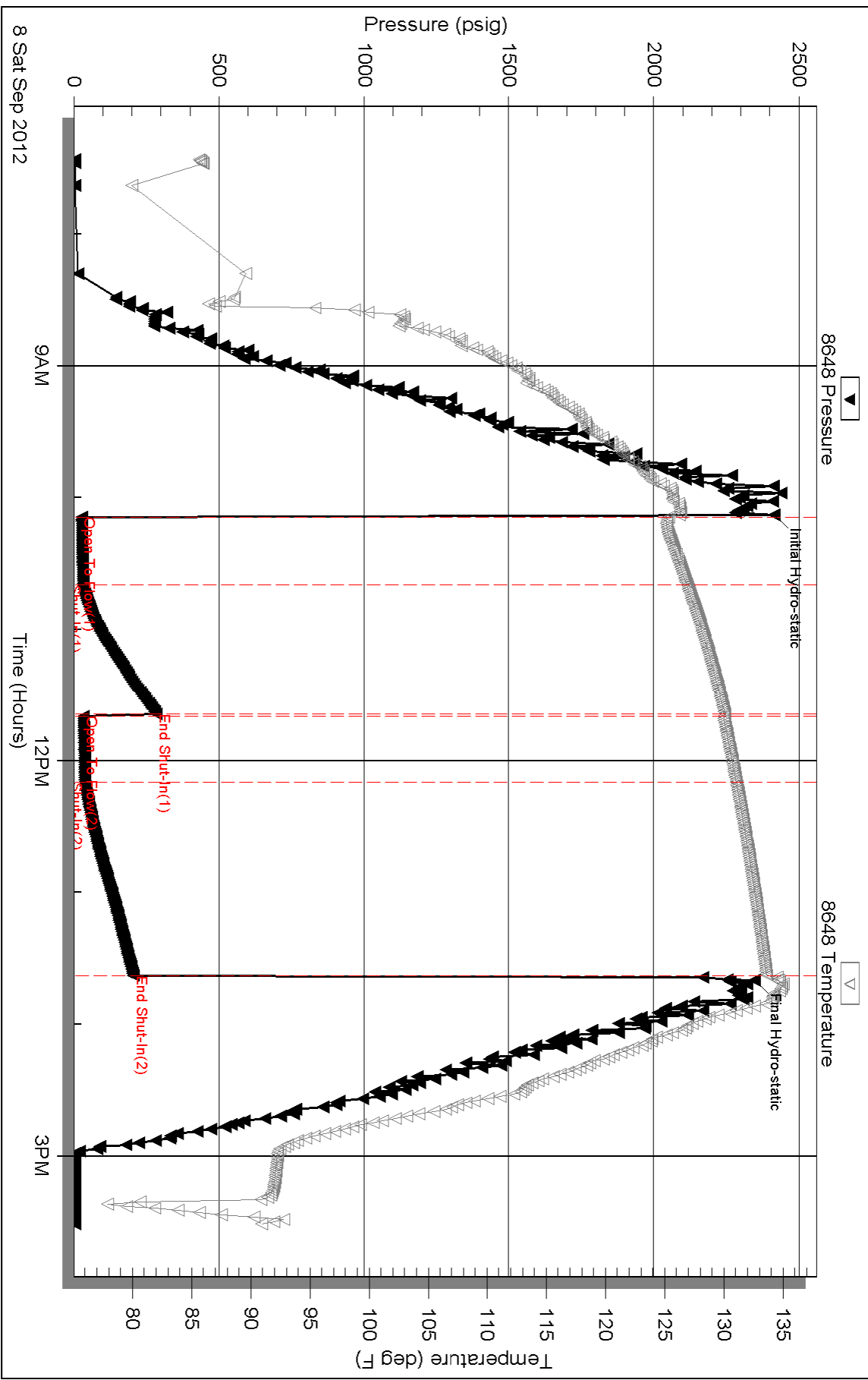
Recovery Table

Length ft	Description	Volume bbl
9.00	OCM 50M 50o	0.044
1.00	Free Oil 100o	0.005

Total Length: 10.00 ft      Total Volume: 0.049 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



### Pressure vs. Time



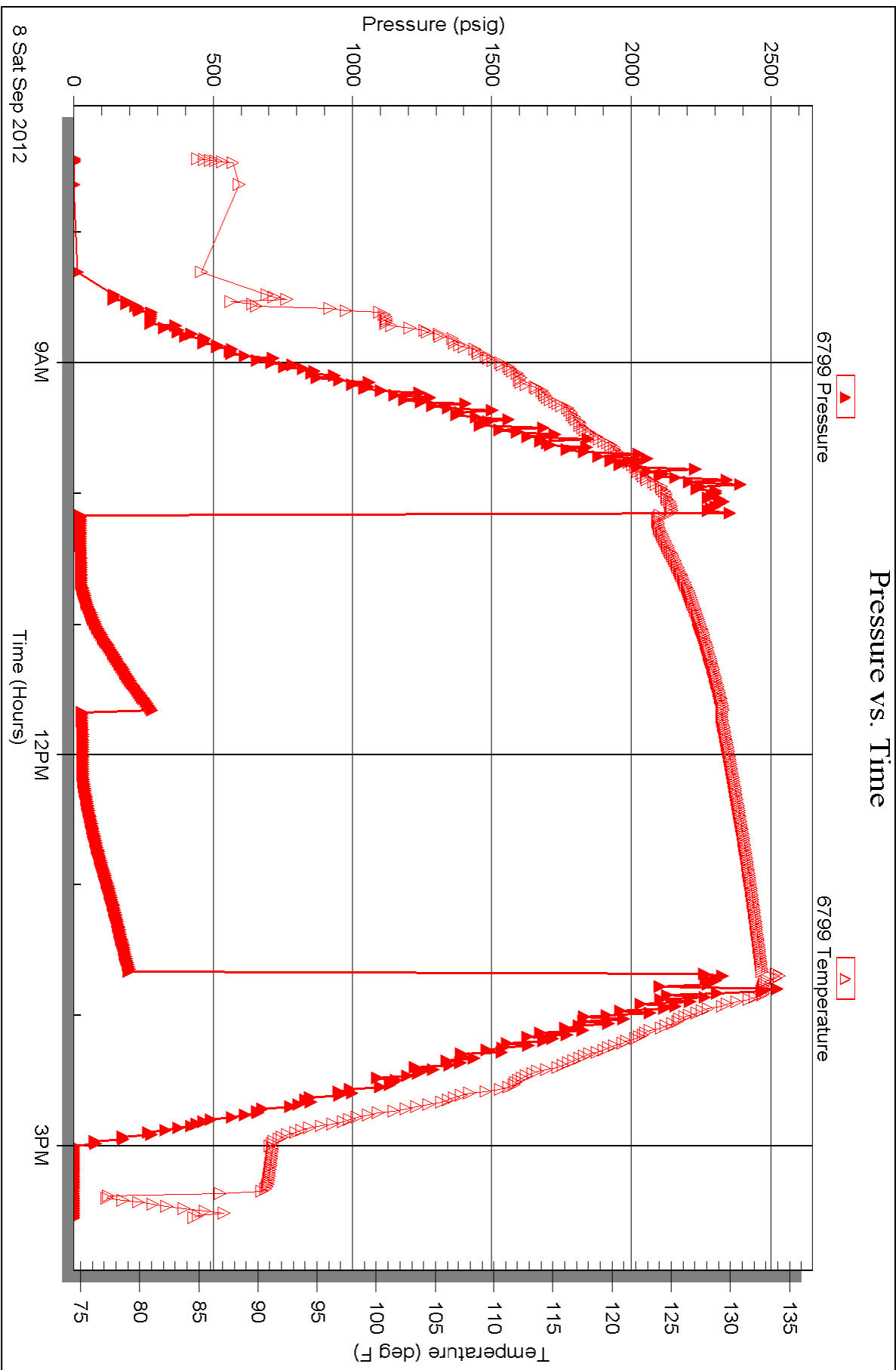
Serial #: 6799

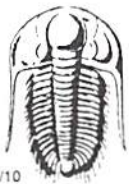
Inside

Murfin Drilling Co. Inc.

Stamok "B" #1-11

DST Test Number: 4





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50136

4/10

Well Name & No. Murfin Drilling Co. Inc. Sramek "B" 1-11 Test No. 1 Date 9/4/12  
 Company Murfin Drilling Co. Inc. Elevation 3252 KB 3242 GL  
 Address 250 N Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Wes Hansen Rig Murfin # H  
 Location: Sec. 11 Twp. 3S Rge. 36W Co. Rawlins State KS

Interval Tested 4118-4185 Zone Tested Lansing "A"  
 Anchor Length 67' Drill Pipe Run 3579 Mud Wt. 9.2  
 Top Packer Depth 4114 Drill Collars Run 531 Vis 57  
 Bottom Packer Depth 4118 Wt. Pipe Run Ø WL 6.8  
 Total Depth 4185 Chlorides 100 ppm System LCM 4  
 Blow Description 6" blow. Tagged on a bridge then hit bottom  
No return.  
No blow.  
No return.

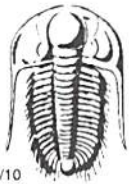
Rec	Feet of	%gas	%oil	%water	%mud
<u>365</u>	<u>Mud</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 365 BHT 131 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2073</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>10:30</u>
(B) First Initial Flow <u>142</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>15:42</u>
(C) First Final Flow <u>168</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>18:06</u>
(D) Initial Shut-In <u>1234</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>21:07</u>
(E) Second Initial Flow <u>173</u>	<input checked="" type="checkbox"/> Hourly Standby 3.5hrs 350	T-Out <u>23:57</u>
(F) Second Final Flow <u>195</u>	<input checked="" type="checkbox"/> Mileage <u>236 RA</u> 100rt 155	Comments <u>pull tight so waiting on rig til 14:15 start out of hole</u>
(G) Final Shut-In <u>1196</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2038</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>2080</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>2080</u>	

Approved By Wesley Hansen Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50137

4/10

Well Name & No. Scamsek "B" 1-11 Test No. 2 Date 9/5/12  
 Company Murfin Drilling Co., Inc. Elevation 3252 KB 3242 GL  
 Address 250 N Water STE 300 Wichita, KS 67202  
 Co. Rep / Geo. Wes Hansen Rig Murfin #14  
 Location: Sec. 11 Twp. 3S Rge. 36W Co. Rawlins State KS

Interval Tested 4336-4380 Zone Tested Lensing "I, J"  
 Anchor Length 44' Drill Pipe Run 3800 Mud Wt. 9.1  
 Top Packer Depth 4332 Drill Collars Run 531 Vis 56  
 Bottom Packer Depth 4336 Wt. Pipe Run Ø WL 6.4  
 Total Depth 4380 Chlorides 1000 ppm System LCM 4

Blow Description weak surface blow died @ 24 min.  
No return.  
No blow.  
No return

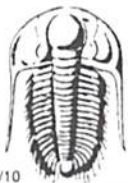
Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>			<u>100</u>	<u>mud</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 132 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2238</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>22:15</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>22:47</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1:13</u>
(D) Initial Shut-In <u>47</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>4:14</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:19</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>236 1/4</u> 155	Comments
(G) Final Shut-In <u>33</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2169</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1730</u>
	Sub Total <u>1730</u>	MP/DST Disc't

Approved By Wesley Hansen Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **50138**

4/10

Well Name & No. <u>Stamek "B" 1-11</u>	Test No. <u>3</u>	Date <u>9/7/12</u>
Company <u>Murfin Drilling Co, Inc.</u>	Elevation <u>3252</u>	KB <u>3242</u> GL
Address <u>250 N Water STE 300 Wichita, KS 67202</u>		
Co. Rep / Geo. <u>Wes Hansen</u>	Rig <u>Murfin #14</u>	
Location: Sec. <u>11</u> Twp. <u>3S</u> Rge. <u>36W</u> Co. <u>Rawlins</u> State <u>KS</u>		

Interval Tested <u>4544 - 4600</u>	Zone Tested <u>Pawnee</u>	
Anchor Length <u>56'</u>	Drill Pipe Run <u>3993</u>	Mud Wt. <u>9.2</u>
Top Packer Depth <u>4540</u>	Drill Collars Run <u>531</u>	Vis <u>62</u>
Bottom Packer Depth <u>4544</u>	Wt. Pipe Run <u>Ø</u>	WL <u>6.0</u>
Total Depth <u>4600</u>	Chlorides <u>1000</u> ppm System	LCM <u>4</u>
Blow Description <u>3 1/2" blow.</u>		
<u>No return</u>		
<u>6" blow.</u>		
<u>No return.</u>		

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>90</u>	<u>15</u>	<u>85</u>		
<u>95</u>	<u>6mco</u>	<u>10</u>	<u>60</u>		<u>30</u>
<u>Ø</u>	<u>GIP 250'</u>				

Rec Total <u>115</u>	BHT <u>134</u>	Gravity <u>26</u>	API RW <u>—</u>	@ <u>—</u> °F	Chlorides <u>—</u> ppm
(A) Initial Hydrostatic <u>2291</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>6:50</u>			
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>10:26</u>			
(C) First Final Flow <u>41</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>12:51</u>			
(D) Initial Shut-In <u>1145</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>16:51</u>			
(E) Second Initial Flow <u>55</u>	<input checked="" type="checkbox"/> Hourly Standby 1.75hrs 175	T-Out <u>18:43</u>			
(F) Second Final Flow <u>80</u>	<input checked="" type="checkbox"/> Mileage <u>236 R/T</u> 155	Comments <u>projected time out 7:15</u>			
(G) Final Shut-In <u>1077</u>	<input type="checkbox"/> Sampler	<u>pulled tight headed back in hole</u>			
(H) Final Hydrostatic <u>2248</u>	<input type="checkbox"/> Straddle	<u>to circ <del>run</del></u>			
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer			
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input checked="" type="checkbox"/> Ruined Packer 320			
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies			
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby	Sub Total <u>320</u>			
	<input type="checkbox"/> Accessibility	Total <u>2225</u>			
	Sub Total <u>1905</u>	MP/DST Disc't			

Approved By Wesley Hansen Our Representative [Signature]

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# TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

NO. 48062

Well Name & No. Sramek "B" #1-4 Test No. 4 Date 9-8-12  
 Company Murrin Drilling Co. Inc. Elevation 3252 KB 3242 GL  
 Address 250 N Water STE #300 Wichita, KS 67202  
 Co. Rep / Geo. Wes Hansen Rig Murrin #14  
 Location: Sec. 11 Twp. 3S Rge. 36W Co. Rawlins State KS

Interval Tested 4599 - 4670 Zone Tested Lbr Pawnee / Fr. Scott / Cherokee  
 Anchor Length 71' Drill Pipe Run 4059 Mud Wt. 9.1  
 Top Packer Depth 4595 Drill Collars Run 531 Vis 62  
 Bottom Packer Depth 4599 Wt. Pipe Run Ø WL 5.6  
 Total Depth 4670 Chlorides 4000 ppm System LCM 3\*

Blow Description IF- 1/4" Blow built to 1"  
IS- No Return  
FF- No Blow  
FS- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>	<u>100</u>			
<u>9</u>	<u>OCM</u>	<u>50</u>		<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 135 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2414  Test 1250 T-On Location 6:30 AM  
 (B) First Initial Flow 26  Jars 250 T-Started 7:26 AM  
 (C) First Final Flow 31  Safety Joint 75 T-Open 10:10 AM  
 (D) Initial Shut-In 284  Circ Sub NIC T-Pulled 1:40 PM  
 (E) Second Initial Flow 33  Hourly Standby \_\_\_\_\_ T-Out 3:32 PM  
 (F) Second Final Flow 37  Mileage 100 RT 310 Comments p/u tool 9/9 10:00  
 (G) Final Shut-In 204  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2347  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby X1 1d 6.5hrs  
 Accessibility \_\_\_\_\_  
 Sub Total 1885

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 30  
 Final Shut-In 96

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 800  
 Total 2205  
 MP/DST Disc't \_\_\_\_\_

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

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