



DRILL STEM TEST REPORT

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

250 N Water Siute 300
Wichita, KS 67202

ATTN: Bob Stolze

Poore #1-14

14-3s-36w Rawlins,KS

Start Date: 2012.10.14 @ 22:46:00

End Date: 2012.10.15 @ 06:40:00

Job Ticket #: 48244 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.23 @ 08:32:11

Murfin Drilling Co., Inc.

14-3s-36w Rawlins,KS

Poore #1-14

DST # 1

Douglas - LKC 'A - D

2012.10.14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N Water Siute 300
 Wichita, KS 67202
 ATTN: Bob Stolzle

14-3s-36w Rawlins, KS
Poore #1-14
 Job Ticket: 48244 **DST#: 1**
 Test Start: 2012.10.14 @ 22:46:00

GENERAL INFORMATION:

Formation: **Douglas - LKC "A - D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:38:00
 Time Test Ended: 06:40:00
 Interval: **4181.00 ft (KB) To 4310.00 ft (KB) (TVD)**
 Total Depth: 4310.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3327.00 ft (KB)
 3317.00 ft (CF)
 KB to GR/CF: 10.00 ft

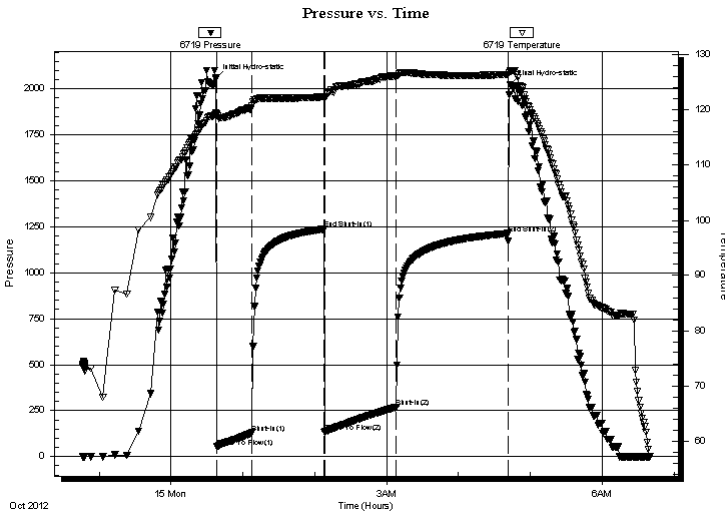
Serial #: 6719

Inside

Press @ Run Depth: 268.91 psig @ 4182.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.14 End Date: 2012.10.15 Last Calib.: 2012.10.15
 Start Time: 22:46:05 End Time: 06:39:59 Time On Btm: 2012.10.15 @ 00:37:00
 Time Off Btm: 2012.10.15 @ 04:43:00

TEST COMMENT: 30 - IF: 3" Surge blow at open, built to 9 1/2"
 60 - IS: Bled off, No blow back
 60 - FF: Blow started at 4 min., built to 9 3/4"
 90 - FS: Bled off, No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.93	119.42	Initial Hydro-static
1	53.15	119.27	Open To Flow (1)
31	129.82	120.72	Shut-In(1)
91	1236.52	122.41	End Shut-In(1)
91	133.57	122.23	Open To Flow (2)
151	268.91	126.12	Shut-In(2)
244	1213.42	126.45	End Shut-In(2)
246	2021.03	126.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
178.00	SWCM w /trace oil 89%m,7%g, 4%w	0.88
352.00	Mud w /trace oil 95%m, 5%g	1.73

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

14-3s-36w Rawlins,KS

250 N Water Siute 300
Wichita, KS 67202

Poore #1-14

Job Ticket: 48244

DST#: 1

ATTN: Bob Stolzle

Test Start: 2012.10.14 @ 22:46:00

Tool Information

Drill Pipe:	Length: 3647.00 ft	Diameter: 3.80 inches	Volume: 51.16 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 53.77 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4181.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	129.00 ft			
Tool Length:	157.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool slid 2' before opening and then chased 5' to bottom at open - hole lost 15' of mud - 3" surge blow at open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4158.00	
Hydraulic tool	5.00			4163.00	
Jars	5.00			4168.00	
Safety Joint	3.00			4171.00	
Packer	5.00			4176.00	28.00 Bottom Of Top Packer
Packer	5.00			4181.00	
Stubb	1.00			4182.00	
Recorder	0.00	6719	Inside	4182.00	
Recorder	0.00	8320	Outside	4182.00	
Perforations	25.00			4207.00	
Blank Spacing	97.00			4304.00	
Perforations	3.00			4307.00	
Bullnose	3.00			4310.00	129.00 Bottom Packers & Anchor

Total Tool Length: 157.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

14-3s-36w Rawlins,KS

250 N Water Siute 300
Wichita, KS 67202

Poore #1-14

Job Ticket: 48244

DST#: 1

ATTN: Bob Stolzle

Test Start: 2012.10.14 @ 22:46:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
178.00	SWCM w /trace oil 89%m,7%g, 4%w	0.875
352.00	Mud w /trace oil 95%m, 5%g	1.731

Total Length: 530.00 ft

Total Volume: 2.606 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

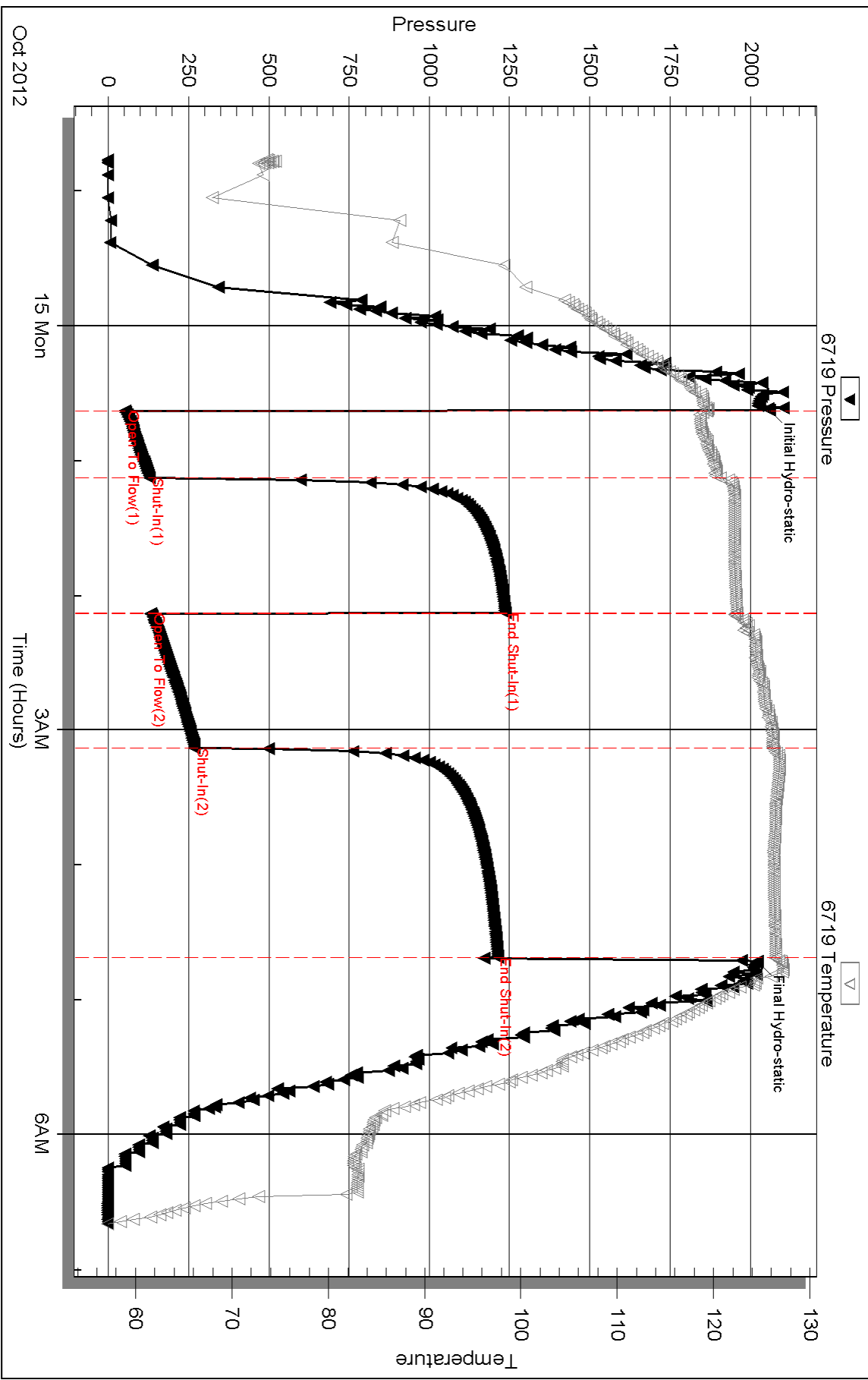
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

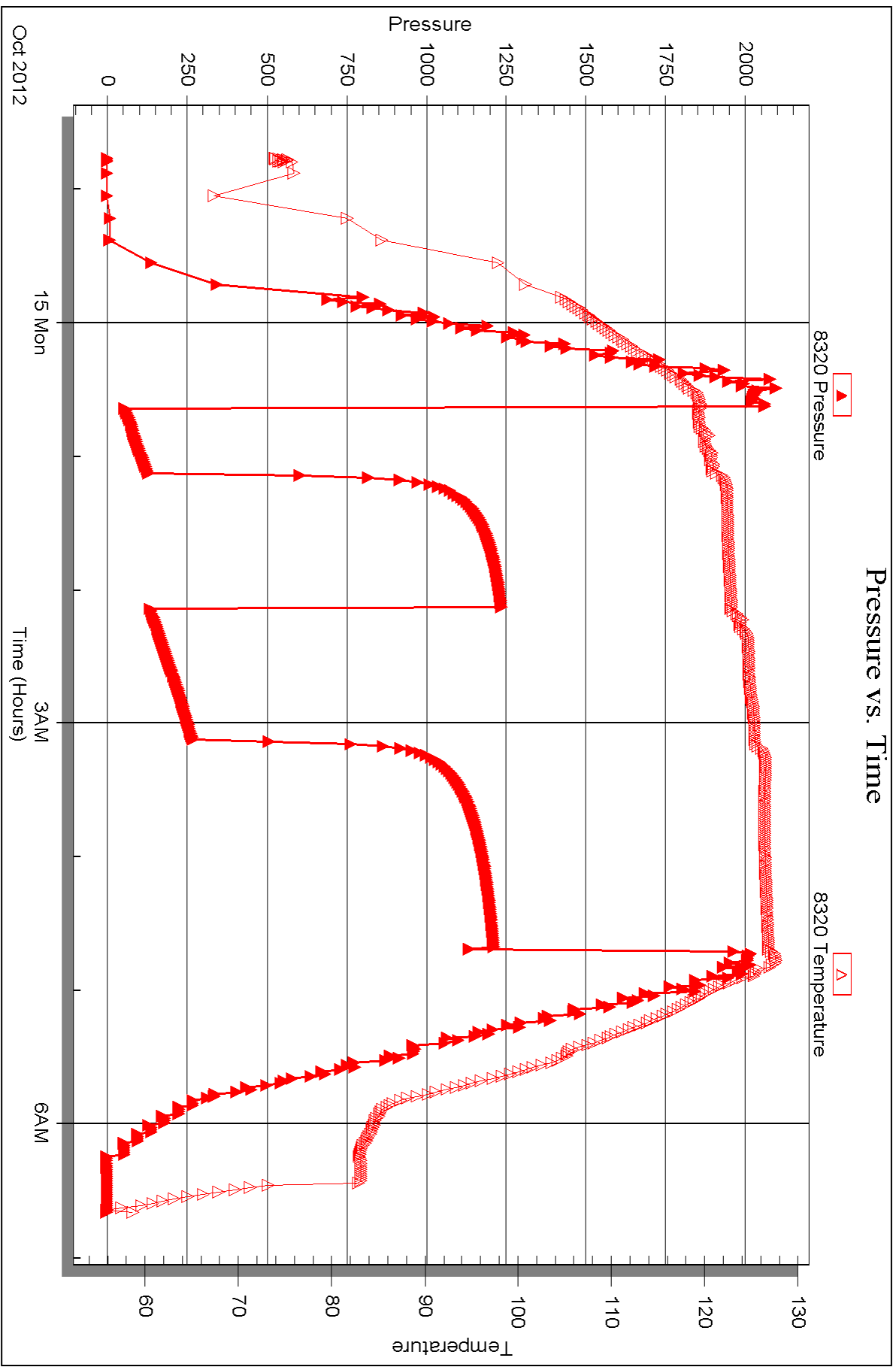


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Poore #1-14

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48244

Printed: 2012.10.23 @ 08:32:18



DRILL STEM TEST REPORT

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

250 N Water Siute 300
Wichita, KS 67202

ATTN: Bob Stolzle

Poore #1-14

14-3s-36w Rawlins,KS

Start Date: 2012.10.15 @ 22:25:00

End Date: 2012.10.16 @ 05:16:00

Job Ticket #: 48245 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.23 @ 08:30:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N Water Siute 300
Wichita, KS 67202
ATTN: Bob Stolzle

14-3s-36w Rawlins,KS

Poore #1-14

Job Ticket: 48245

DST#: 2

Test Start: 2012.10.15 @ 22:25:00

GENERAL INFORMATION:

Formation: **LKC "J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:17:30
 Time Test Ended: 05:16:00
 Interval: **4401.00 ft (KB) To 4450.00 ft (KB) (TVD)**
 Total Depth: 4450.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3327.00 ft (KB)
 3317.00 ft (CF)
 KB to GR/CF: 10.00 ft

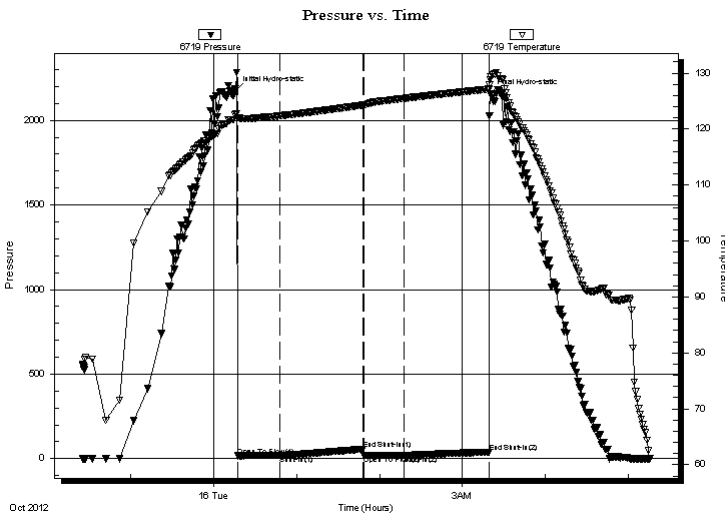
Serial #: 6719

Inside

Press @ Run Depth: 19.70 psig @ 4402.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.15 End Date: 2012.10.16 Last Calib.: 2012.10.16
 Start Time: 22:25:05 End Time: 05:15:59 Time On Btm: 2012.10.16 @ 00:16:00
 Time Off Btm: 2012.10.16 @ 03:20:00

TEST COMMENT: 30 - IF: Blow built to 1/4" then died back, dead at 27 min.
 60 - IS: No blow back
 30 - FF: No blow
 60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2177.15	122.74	Initial Hydro-static
2	16.59	122.03	Open To Flow (1)
32	18.50	122.37	Shut-In(1)
92	56.65	124.29	End Shut-In(1)
93	18.97	124.30	Open To Flow (2)
122	19.70	125.51	Shut-In(2)
183	38.84	127.15	End Shut-In(2)
184	2157.42	128.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100%	0.01

* 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.

14-3s-36w Rawlins,KS

250 N Water Siute 300
Wichita, KS 67202

Poore #1-14

Job Ticket: 48245

DST#: 2

ATTN: Bob Stolzle

Test Start: 2012.10.15 @ 22:25:00

Tool Information

Drill Pipe:	Length: 3867.00 ft	Diameter: 3.80 inches	Volume: 54.24 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 56.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4401.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	78.00 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
Shut In Tool	5.00			4377.00	
Hydraulic tool	5.00			4382.00	
Jars	5.00			4387.00	
Safety Joint	3.00			4390.00	
Change Over Sub	1.00			4391.00	
Packer - Shale	0.00			4391.00	
Packer	5.00			4396.00	29.00 Bottom Of Top Packer
Packer	5.00			4401.00	
Stubb	1.00			4402.00	
Recorder	0.00	6719	Inside	4402.00	
Recorder	0.00	8320	Outside	4402.00	
Perforations	5.00			4407.00	
Blank Spacing	33.00			4440.00	
Perforations	7.00			4447.00	
Bullnose	3.00			4450.00	49.00 Bottom Packers & Anchor

Total Tool Length: 78.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N Water Siute 300
Wichita, KS 67202
ATTN: Bob Stolzle

14-3s-36w Rawlins,KS
Poore #1-14
Job Ticket: 48245 **DST#: 2**
Test Start: 2012.10.15 @ 22:25:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.33 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 2.00 inches			

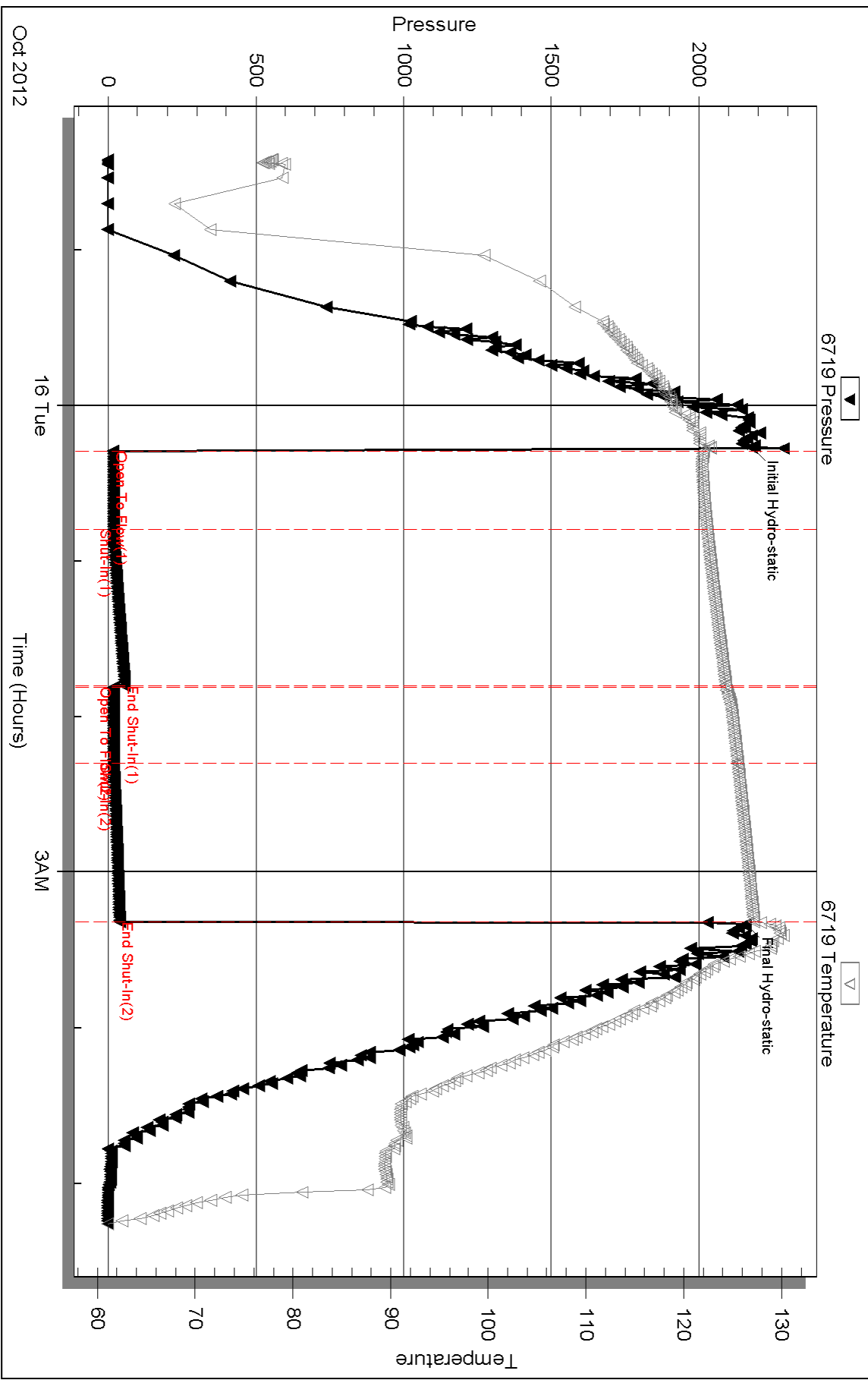
Recovery Information

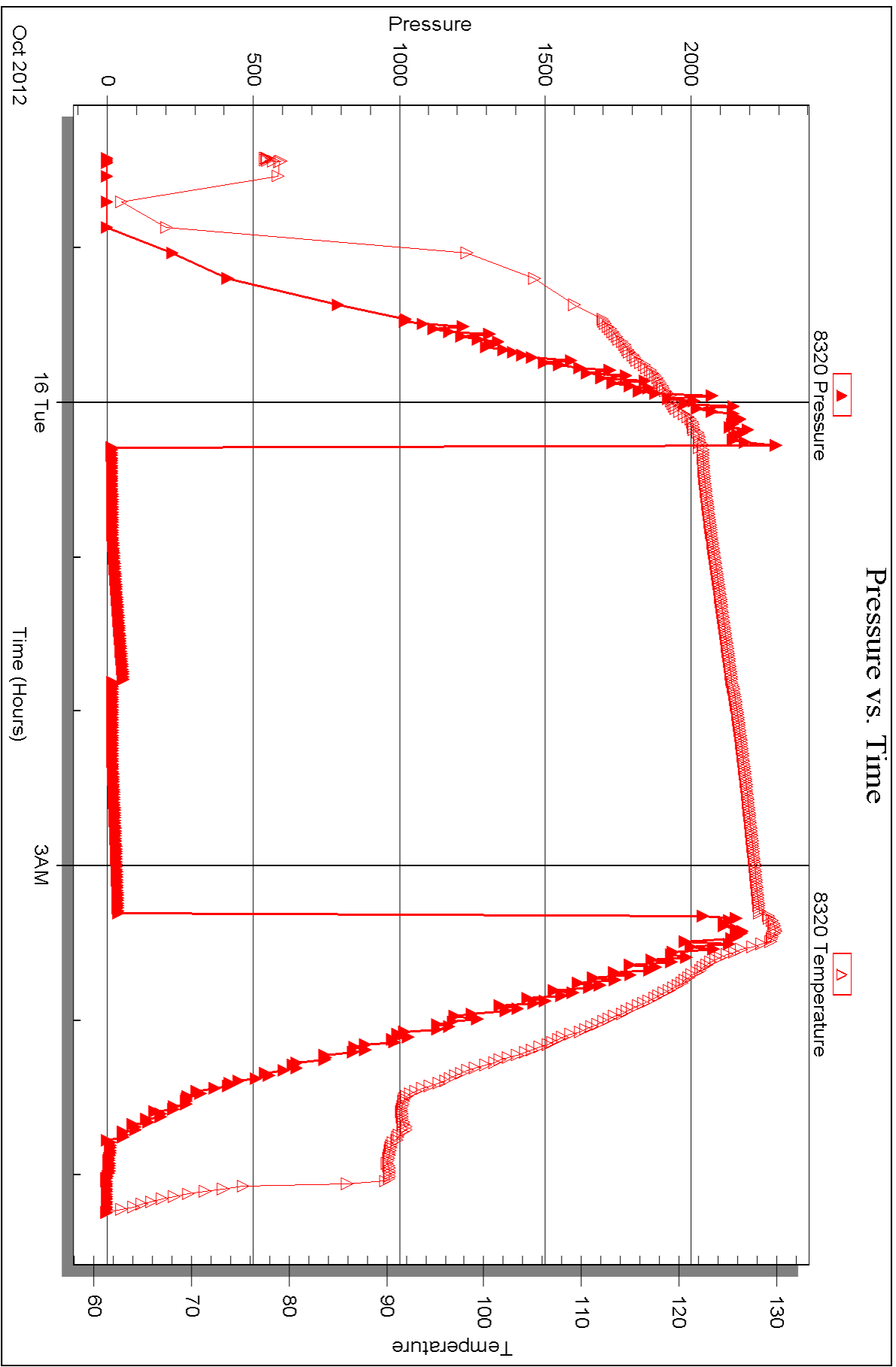
Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100%	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N Water Siute 300
Wichita, KS 67202

ATTN: Bob Stolze

Poore #1-14

14-3s-36w Rawlins,KS

Start Date: 2012.10.16 @ 15:51:00

End Date: 2012.10.17 @ 00:00:30

Job Ticket #: 48246 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.23 @ 08:29:42



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N Water Siute 300
Wichita, KS 67202
ATTN: Bob Stolzle

14-3s-36w Rawlins,KS

Poore #1-14

Job Ticket: 48246

DST#: 3

Test Start: 2012.10.16 @ 15:51:00

GENERAL INFORMATION:

Formation: **Basal Sd/Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:16:30

Time Test Ended: 00:00:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4480.00 ft (KB) To 4510.00 ft (KB) (TVD)

Reference Elevations: 3327.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

3317.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 82.87 psig @ 4481.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.16

End Date:

2012.10.17

Last Calib.: 2012.10.17

Start Time: 15:51:05

End Time:

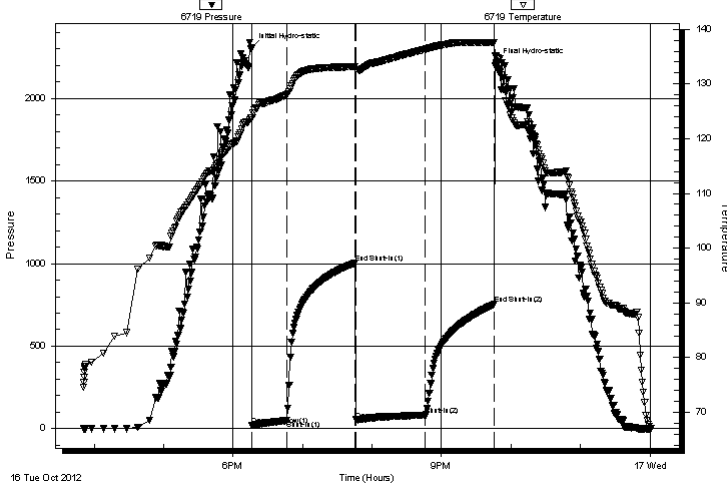
00:00:29

Time On Btm: 2012.10.16 @ 18:16:00

Time Off Btm: 2012.10.16 @ 21:47:00

TEST COMMENT: 30 - IF: Blow built to 3"
60 - IS: Bled off, No blow back
60 - FF: Blow started at 13 min., built to 1"
60 - FS: Bled off, No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2305.55	123.79	Initial Hydro-static
1	18.58	123.81	Open To Flow (1)
30	48.59	127.98	Shut-In(1)
90	1003.94	133.18	End Shut-In(1)
91	53.33	132.66	Open To Flow (2)
150	82.87	136.33	Shut-In(2)
210	753.45	137.57	End Shut-In(2)
211	2219.40	134.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	WM 52% _m , 48% _w	0.74

* 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.

14-3s-36w Rawlins,KS

250 N Water Siute 300
Wichita, KS 67202

Poore #1-14

Job Ticket: 48246

DST#: 3

ATTN: Bob Stolzle

Test Start: 2012.10.16 @ 15:51:00

Tool Information

Drill Pipe:	Length: 3931.00 ft	Diameter: 3.80 inches	Volume: 55.14 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 57.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4480.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 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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Shut In Tool	5.00			4457.00	
Hydraulic tool	5.00			4462.00	
Jars	5.00			4467.00	
Safety Joint	3.00			4470.00	
Packer - Shale	0.00			4470.00	
Packer	5.00			4475.00	28.00 Bottom Of Top Packer
Packer	5.00			4480.00	
Stubb	1.00			4481.00	
Recorder	0.00	6719	Inside	4481.00	
Recorder	0.00	8320	Outside	4481.00	
Perforations	26.00			4507.00	
Bullnose	3.00			4510.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N Water Siute 300
Wichita, KS 67202
ATTN: Bob Stolzle

14-3s-36w Rawlins,KS
Poore #1-14
Job Ticket: 48246 **DST#: 3**
Test Start: 2012.10.16 @ 15:51:00

Mud and Cushion Information

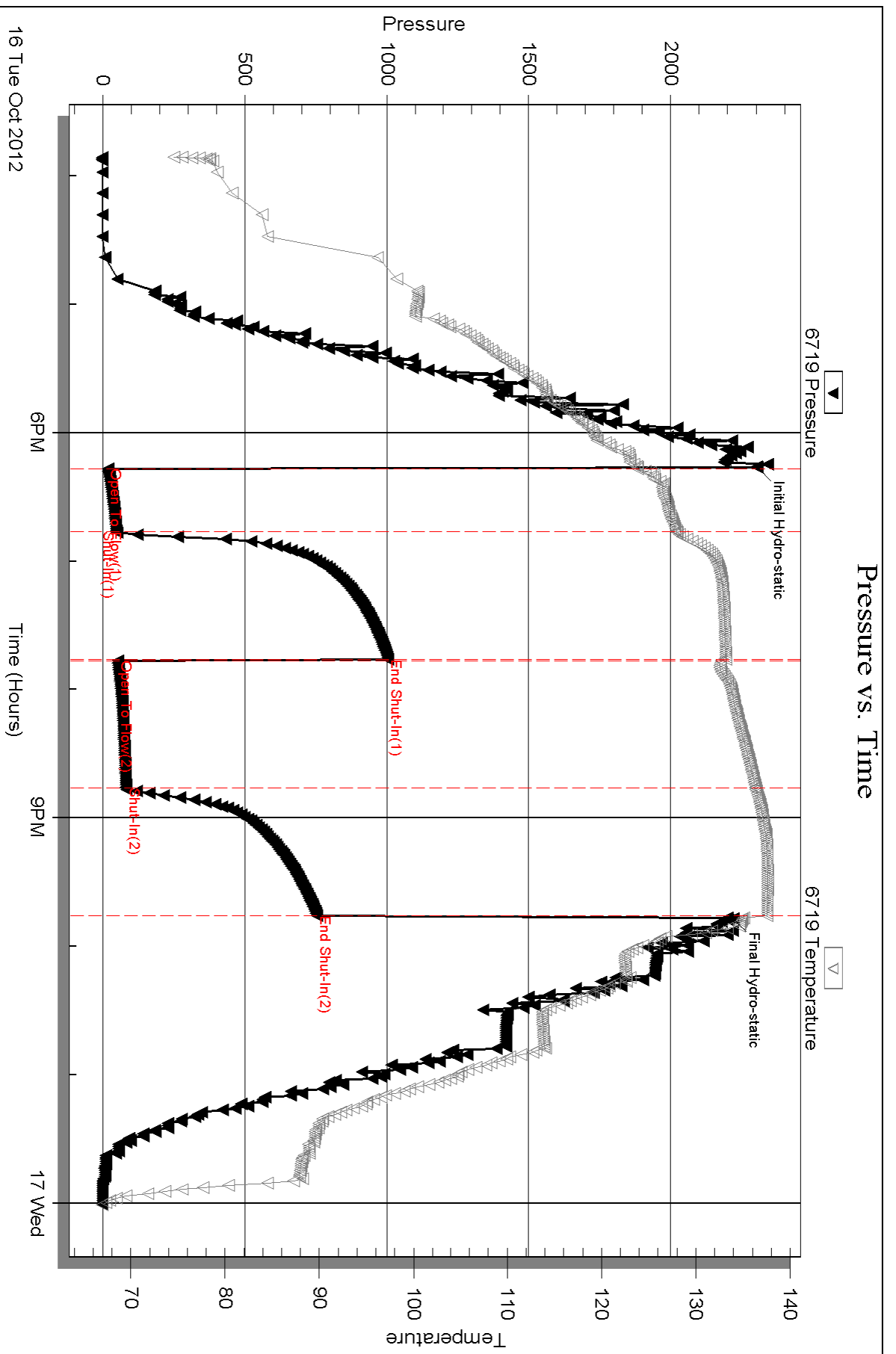
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	27000 ppm
Viscosity: 74.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	WM 52% _m , 48% _w	0.738

Total Length: 150.00 ft Total Volume: 0.738 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW = .275 ohms @ 65.5 deg F

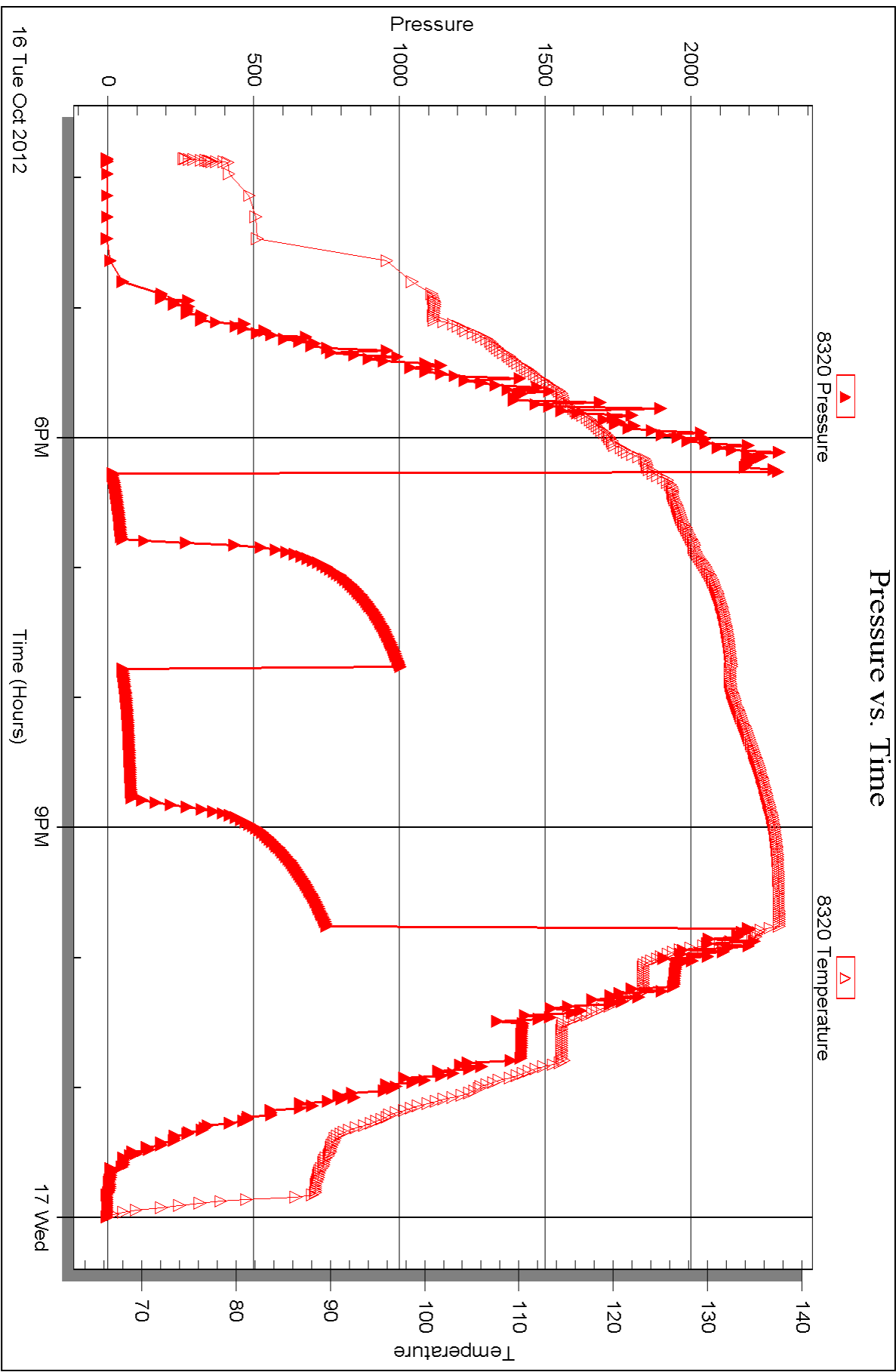


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Poore #1-14

DST Test Number: 3





DRILL STEM TEST REPORT

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

250 N Water Siute 300
Wichita, KS 67202

ATTN: Bob Stolzle

Poore #1-14

14-3s-36w Rawlins,KS

Start Date: 2012.10.17 @ 19:42:00

End Date: 2012.10.18 @ 02:44:30

Job Ticket #: 48247 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.23 @ 08:28:20

Murfin Drilling Co., Inc.

14-3s-36w Rawlins,KS

Poore #1-14

DST # 4

Upper Pawnee

2012.10.17



**TRILOBITE
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DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N Water Siute 300
Wichita, KS 67202
ATTN: Bob Stolzle

14-3s-36w Rawlins,KS

Poore #1-14

Job Ticket: 48247

DST#: 4

Test Start: 2012.10.17 @ 19:42:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:41:00
 Time Test Ended: 02:44:30
 Interval: **4596.00 ft (KB) To 4650.00 ft (KB) (TVD)**
 Total Depth: 4310.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 3327.00 ft (KB)
 3317.00 ft (CF)
 KB to GR/CF: 10.00 ft

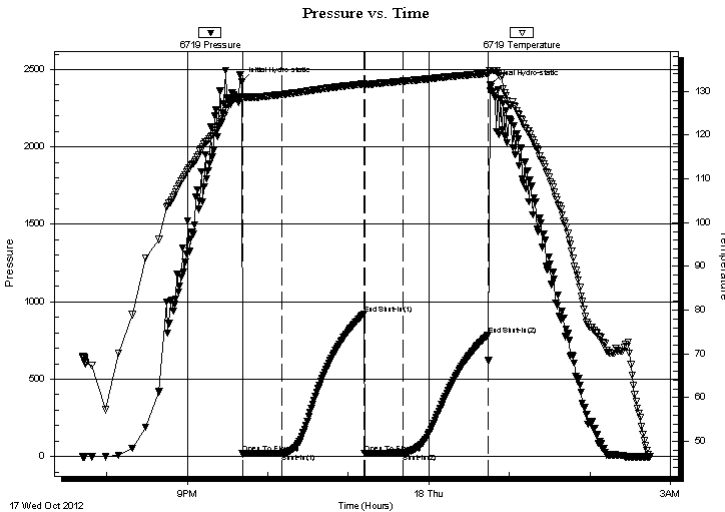
Serial #: 6719

Inside

Press @ Run Depth: 24.02 psig @ 4597.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.17 End Date: 2012.10.18 Last Calib.: 2012.10.18
 Start Time: 19:42:05 End Time: 02:44:29 Time On Btm: 2012.10.17 @ 21:40:30
 Time Off Btm: 2012.10.18 @ 00:46:00

TEST COMMENT: 30 - IF: Blow built to 1/2", dying back at 23 min., surface blow at close
 60 - IS: Bled off, No blow back
 30 - FF: No blow
 60 - FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.51	128.77	Initial Hydro-static
1	18.58	128.63	Open To Flow (1)
30	21.44	129.28	Shut-In(1)
91	921.24	131.70	End Shut-In(1)
92	21.91	131.49	Open To Flow (2)
121	24.02	132.33	Shut-In(2)
184	786.09	134.10	End Shut-In(2)
186	2402.58	134.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /trace oil 100%m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

14-3s-36w Rawlins,KS

250 N Water Siute 300
Wichita, KS 67202

Poore #1-14

Job Ticket: 48247

DST#: 4

ATTN: Bob Stolzle

Test Start: 2012.10.17 @ 19:42:00

Tool Information

Drill Pipe:	Length: 4058.00 ft	Diameter: 3.80 inches	Volume: 56.92 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	82000.00 lb
			<u>Total Volume: 59.53 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4596.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	82.00 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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Shut In Tool	5.00			4573.00	
Hydraulic tool	5.00			4578.00	
Jars	5.00			4583.00	
Safety Joint	3.00			4586.00	
Packer - Shale	0.00			4586.00	
Packer	5.00			4591.00	28.00 Bottom Of Top Packer
Packer	5.00			4596.00	
Stubb	1.00			4597.00	
Recorder	0.00	6719	Inside	4597.00	
Recorder	0.00	8320	Outside	4597.00	
Perforations	15.00			4612.00	
Blank Spacing	33.00			4645.00	
Perforations	2.00			4647.00	
Bullnose	3.00			4650.00	54.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N Water Siute 300
Wichita, KS 67202
ATTN: Bob Stolzle

14-3s-36w Rawlins,KS
Poore #1-14
Job Ticket: 48247 **DST#: 4**
Test Start: 2012.10.17 @ 19:42:00

Mud and Cushion Information

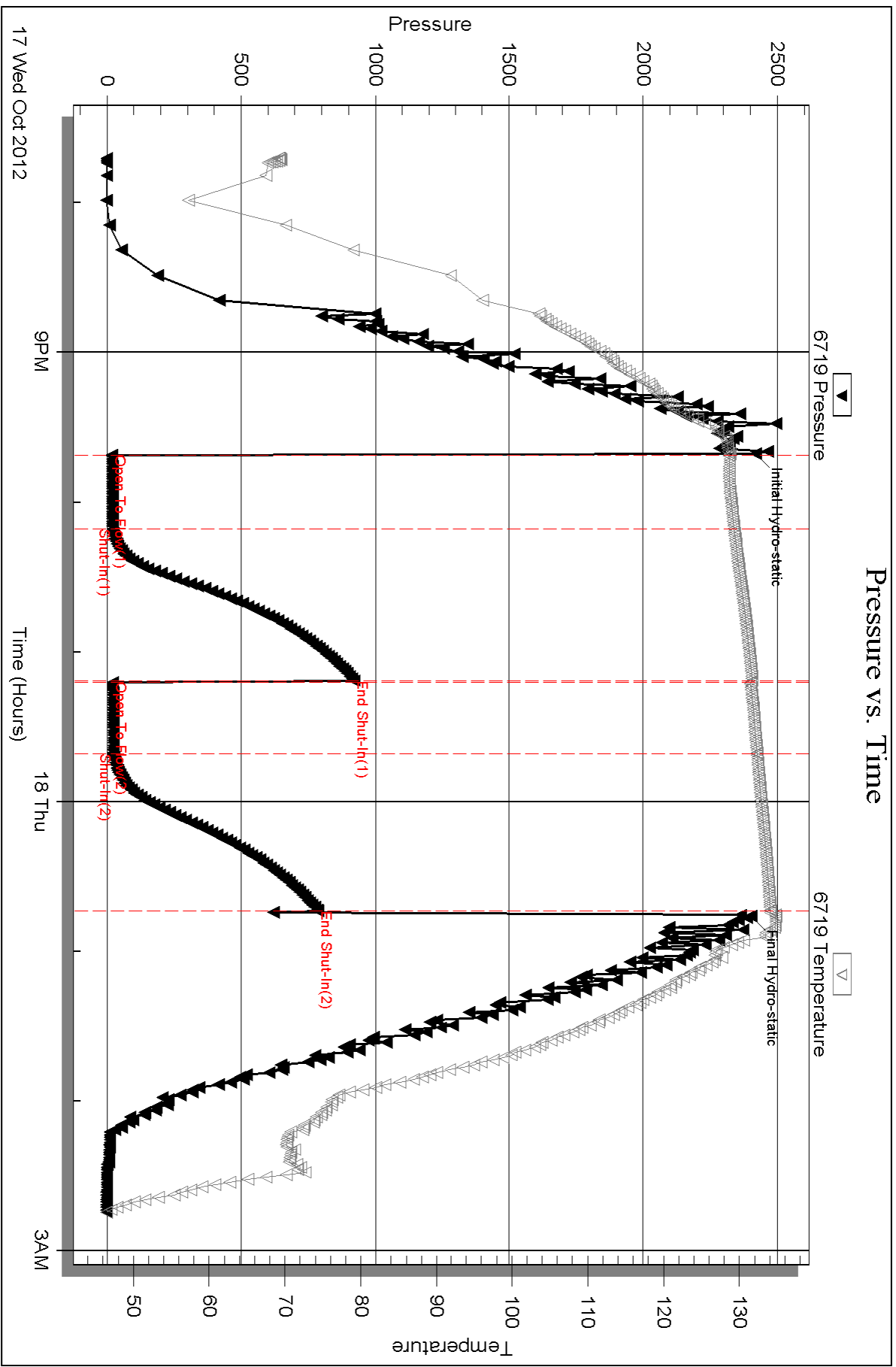
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 76.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w /trace oil 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

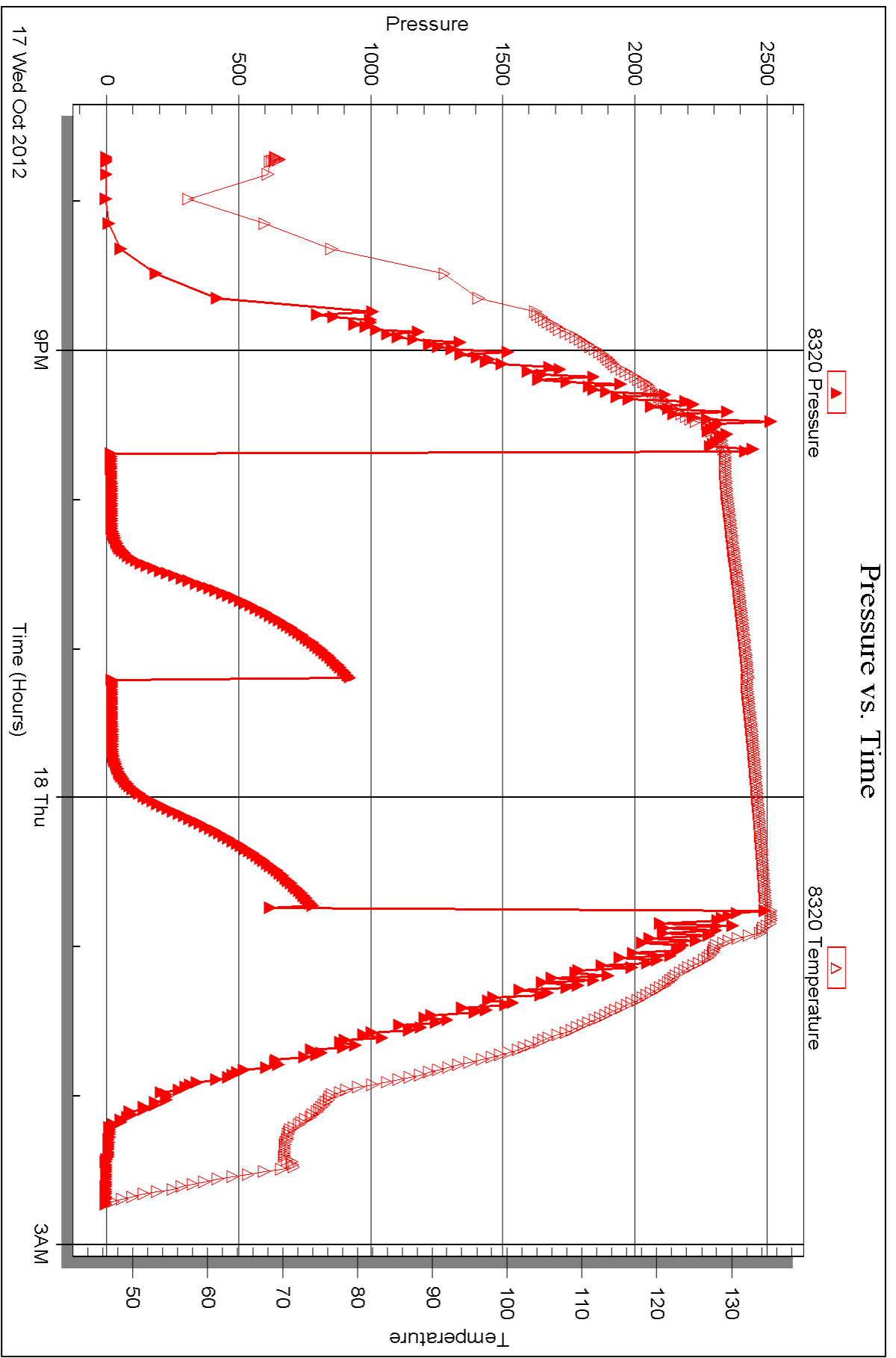


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Poore #1-14

DST Test Number: 4





DRILL STEM TEST REPORT

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

250 N Water Siute 300
Wichita, KS 67202

ATTN: Bob Stolze

Poore #1-14

14-3s-36w Rawlins,KS

Start Date: 2012.10.18 @ 21:51:00

End Date: 2012.10.19 @ 07:38:30

Job Ticket #: 48248 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.23 @ 08:23:44

Murfin Drilling Co., Inc.

14-3s-36w Rawlins,KS

Poore #1-14

DST # 5

Lwr Pawnee, Ft.Scott

2012.10.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N Water Siute 300
 Wichita, KS 67202
 ATTN: Bob Stolzle

14-3s-36w Rawlins, KS

Poore #1-14

Job Ticket: 48248

DST#: 5

Test Start: 2012.10.18 @ 21:51:00

GENERAL INFORMATION:

Formation: **Lwr Pawnee, Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:29:00

Time Test Ended: 07:38:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

Interval: 4645.00 ft (KB) To 4740.00 ft (KB) (TVD)

Reference Elevations: 3327.00 ft (KB)

Total Depth: 4740.00 ft (KB) (TVD)

3317.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6719

Inside

Press @ Run Depth: 58.73 psig @ 4646.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.18

End Date:

2012.10.19

Last Calib.:

2012.10.19

Start Time: 21:51:05

End Time:

07:38:30

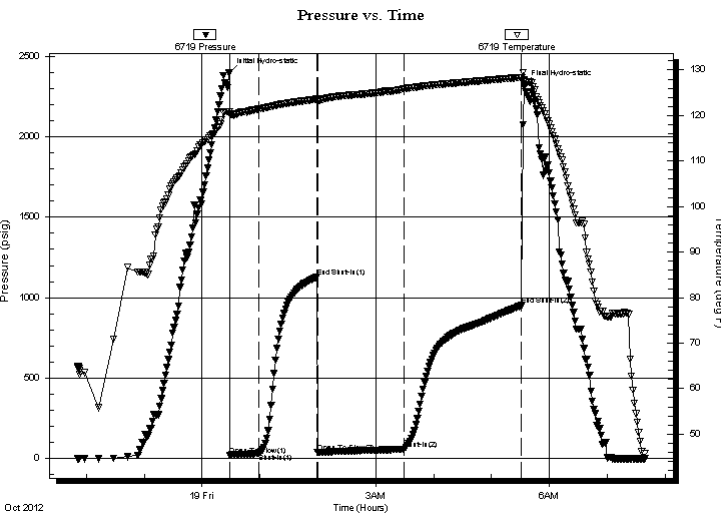
Time On Btm:

2012.10.19 @ 00:28:30

Time Off Btm:

2012.10.19 @ 05:33:30

TEST COMMENT: 30 - IF: Blow built to 2 1/4"
 60 - IS: Bled off, No blow back
 90 - FF: Blow built to 4 1/2"
 120 - FS: Bled off, No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2399.91	120.80	Initial Hydro-static
1	21.58	120.36	Open To Flow (1)
31	32.26	121.44	Shut-In(1)
90	1126.57	123.58	End Shut-In(1)
91	37.40	123.13	Open To Flow (2)
181	58.73	125.90	Shut-In(2)
303	951.17	128.39	End Shut-In(2)
305	2323.63	127.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	OCM 75%o, 22%o, 3%g	0.34
20.00	MCO 79%o, 20%o, 1%g	0.10
0.00	GIP = 90'	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 Siute 300
Wichita, KS 67202
ATTN: Bob Stolzle

14-3s-36w Rawlins,KS
Poore #1-14
Job Ticket: 48248 **DST#: 5**
Test Start: 2012.10.18 @ 21:51:00

Tool Information

Drill Pipe:	Length: 4091.00 ft	Diameter: 3.80 inches	Volume: 57.39 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: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 60.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4645.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	95.00 ft			
Tool Length:	123.00 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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Shut In Tool	5.00			4622.00	
Hydraulic tool	5.00			4627.00	
Jars	5.00			4632.00	
Safety Joint	3.00			4635.00	
Packer - Shale	0.00			4635.00	
Packer	5.00			4640.00	28.00 Bottom Of Top Packer
Packer	5.00			4645.00	
Stubb	1.00			4646.00	
Recorder	0.00	6719	Inside	4646.00	
Recorder	0.00	8320	Outside	4646.00	
Perforations	20.00			4666.00	
Blank Spacing	64.00			4730.00	
Perforations	7.00			4737.00	
Bullnose	3.00			4740.00	95.00 Bottom Packers & Anchor

Total Tool Length: 123.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.
250 N Water Siute 300
Wichita, KS 67202
ATTN: Bob Stolzle

14-3s-36w Rawlins,KS
Poore #1-14
Job Ticket: 48248 **DST#: 5**
Test Start: 2012.10.18 @ 21:51:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 26.8 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 74.00 sec/qt	Cushion Volume: bbl	
Water Loss: 5.98 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 900.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

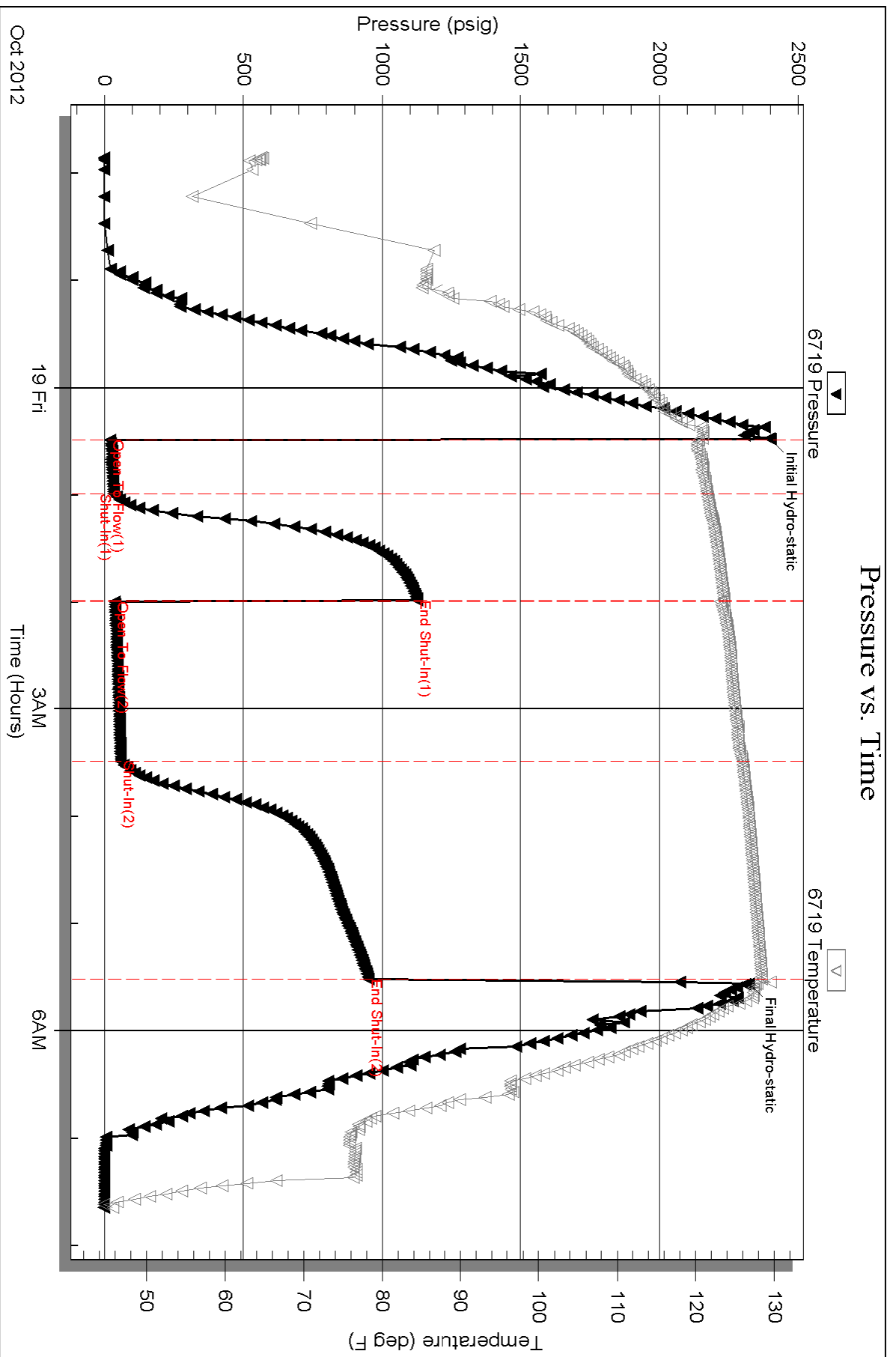
Length ft	Description	Volume bbl
70.00	OCM 75% <i>m</i> , 22% <i>o</i> , 3% <i>g</i>	0.344
20.00	MCO 79% <i>o</i> , 20% <i>m</i> , 1% <i>g</i>	0.098
0.00	GIP = 90'	0.000

Total Length: 90.00 ft Total Volume: 0.442 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 24.8 api @ 40 deg F

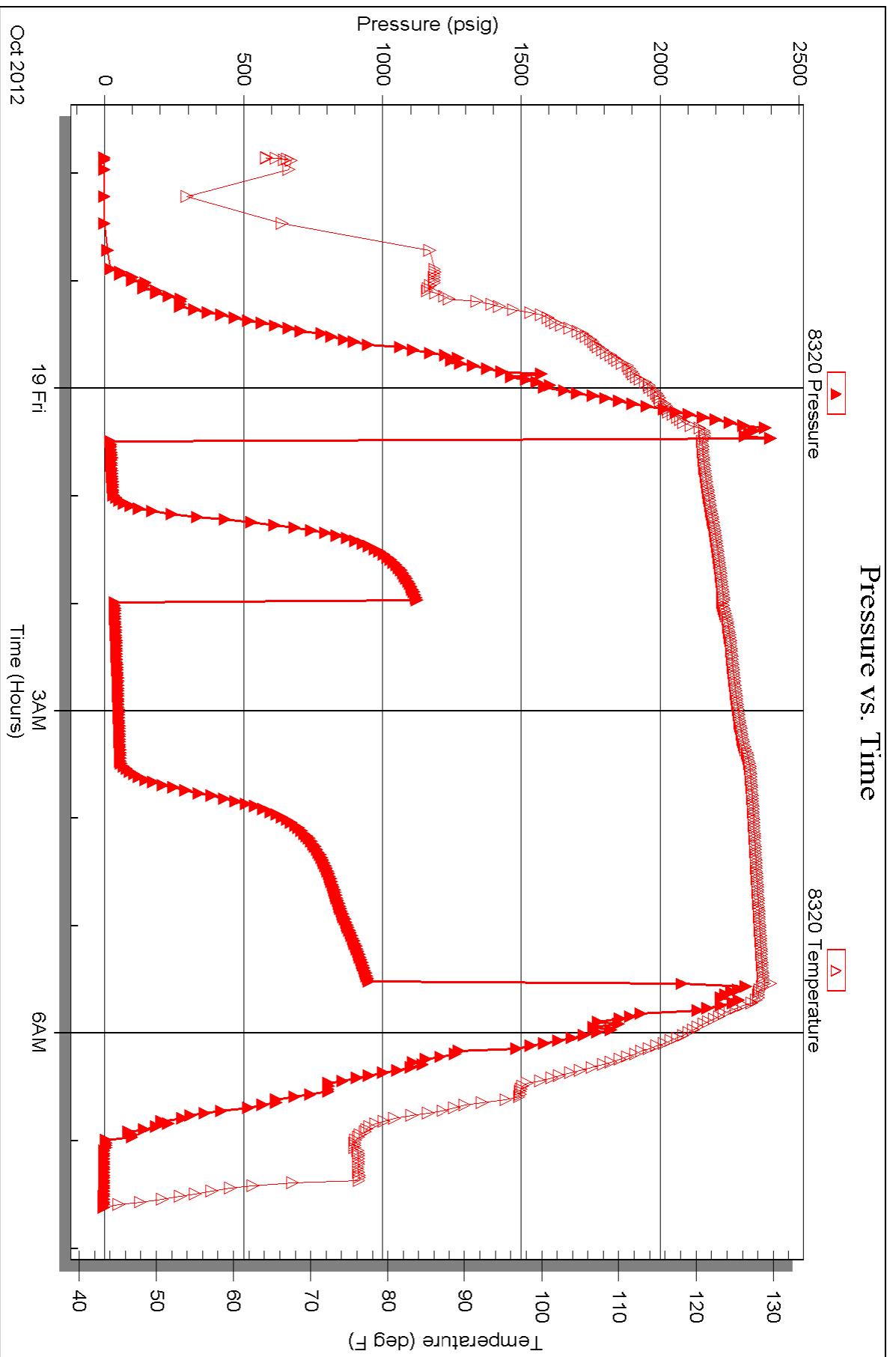


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Poor #1-14

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 48248

Printed: 2012.10.23 @ 08:23:49



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48244

Well Name & No. Poore #1-14 Test No. 1 Date 10-14-12
 Company Murfin Drilling Co. Inc Elevation 3327 KB 3317 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolzle Rig Murfin #14
 Location: Sec. 14 Twp. 3s Rge. 36w Co. Rawlins State KS

Interval Tested 4181 - 4310 Zone Tested Douglas - LKC "A-D"
 Anchor Length 129 Drill Pipe Run 3647 Mud Wt. 9.2
 Top Packer Depth 4176 Drill Collars Run 530 Vis 52
 Bottom Packer Depth 4181 Wt. Pipe Run - WL 6.4
 Total Depth 4310 Chlorides 1100 ppm System LCM 4
 Blow Description IF: 3" ^{surge} blow at open, built to 9 1/2"
ISI: Bled off, No blowback
FF: Blow started at 4 min., built to 9 3/4"
FSI: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
440 352	Mud w/trace oil	5	trace	-	95
80 178	SWCM w/trace oil	7	trace	4	89
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 530 BHT 126 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2054</u>	<input type="checkbox"/> Test <u>*</u> 1250	T-On Location <u>20:15</u>
(B) First Initial Flow <u>53</u>	<input type="checkbox"/> Jars <u>*</u> 250	T-Started <u>22:46</u>
(C) First Final Flow <u>130</u>	<input type="checkbox"/> Safety Joint <u>*</u> 75	T-Open <u>00:38</u>
(D) Initial Shut-In <u>1237</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>4:41</u>
(E) Second Initial Flow <u>134</u>	<input type="checkbox"/> Hourly Standby <u>20min</u> 25	T-Out <u>6:35</u>
(F) Second Final Flow <u>269</u>	<input type="checkbox"/> Mileage <u>90RT</u> 139.50	Comments <u>Tool slid 2' before opening - chased 5' to bottom hole lost 15' mud - 3" surge blow</u>
(G) Final Shut-In <u>1213</u>	<input checked="" type="checkbox"/> Sampler	<input checked="" type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2021</u>	<input checked="" type="checkbox"/> Straddle	<input checked="" type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer	<input checked="" type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Extra Packer	Sub Total <u>0</u>
Final Flow <u>60</u>	<input checked="" type="checkbox"/> Extra Recorder	Total <u>1739.50</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Day Standby	MP/DST Disc't
	<input checked="" type="checkbox"/> Accessibility	
	Sub Total <u>1739.50</u>	

Approved By _____ Our Representative James Winder

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48245

Well Name & No. Poore #1-14 Test No. 2 Date 10-15-12
 Company Murfin Drilling Co. Inc Elevation 3327 KB 3317 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolzle Rig ~~Rawlins~~ Murfin #14
 Location: Sec. 14 Twp. 3S Rge. 36w Co. Rawlins State KS

Interval Tested 4401 - 4450 Zone Tested LKC "J"
 Anchor Length 49 Drill Pipe Run 3867 Mud Wt. 9.1
 Top Packer Depth 4396 (shale) Drill Collars Run 530 Vis 50
 Bottom Packer Depth 4401 Wt. Pipe Run - WL 6.4
 Total Depth 4450 Chlorides 1100 ppm System LCM 4
 Blow Description IF: Blow built to 1/4" then died back, dead at 27 min.
IST: No blowback
FF: No blow
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</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 3 BHT 127 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2177</u>	<input type="checkbox"/> Test <u>*</u> 1250	T-On Location <u>21:50</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars <u>*</u> 250	T-Started <u>22:25</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint <u>*</u> 75	T-Open <u>00:17</u>
(D) Initial Shut-In <u>57</u>	<input checked="" type="checkbox"/> Circ Sub <u>*NA</u>	T-Pulled <u>3:19</u>
(E) Second Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>5:10</u>
(F) Second Final Flow <u>20</u>	<input type="checkbox"/> Mileage <u>90RT</u> 139.50	Comments
(G) Final Shut-In <u>39</u>	<input checked="" type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2157</u>	<input checked="" type="checkbox"/> Straddle	<input checked="" type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer <u>*</u> 250	<input checked="" type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Extra Packer	<input checked="" type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Day Standby	Total <u>1964.50</u>
Final Shut-In <u>60</u>	<input checked="" type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1964.50</u>	

Approved By _____ Our Representative James Winder

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48246

Well Name & No. Poore #1-14 Test No. 3 Date 10-16-12
 Company Murfin Drilling Co. Inc. Elevation 3327 KB 3317 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolzle Rig Murfin #14
 Location: Sec. 14 Twp. 3s Rge. 36w Co. Rawlins State KS

Interval Tested 4480 - 4510 Zone Tested Basal sd / Pleasanton
 Anchor Length 30 Drill Pipe Run 3931 Mud Wt. 9.1
 Top Packer Depth 4475 (shale) Drill Collars Run 530 Vis 74
 Bottom Packer Depth 4480 Wt. Pipe Run - WL 6.0
 Total Depth 4510 Chlorides 1000 ppm System LCM 4

Blow Description IF: Blow built to 3"
ISI: Bled off, No blowback
FF: Blow ~~started~~ started at 13 min., built to 1"
FST: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>wm</u>	<u>-</u>	<u>-</u>	<u>48</u>	<u>52</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 150 BHT 138 Gravity - API RW 275 @ 65.5 ° F Chlorides 27,000 ppm

(A) Initial Hydrostatic 2306
 (B) First Initial Flow 19
 (C) First Final Flow 49
 (D) Initial Shut-In 1004
 (E) Second Initial Flow 53
 (F) Second Final Flow 83
 (G) Final Shut-In 753
 (H) Final Hydrostatic 2219

Test * 1250
 Jars * 250
 Safety Joint * 75
 Circ Sub ANA
 Hourly Standby
 Mileage GORT 139.50
 Sampler
 Straddle
 Shale Packer * 250
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1964.50

T-On Location 15:15
 T-Started 15:51
 T-Open 18:16
 T-Pulled 21:45
 T-Out 23:55

Comments
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1964.50
 MP/DST Disc't

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

Approved By _____ Our Representative James Winder

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48247

Well Name & No. Poore #1-14 Test No. 4 Date 10-17-12
 Company Murfin Drilling Co. Inc Elevation 3327 KB 3317 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolze Rig Murfin #14
 Location: Sec. 14 Twp. 3s Rge. 36w Co. Rawlins State KS

Interval Tested 4596 - 4650 Zone Tested Upper Pawnee
 Anchor Length 54 Drill Pipe Run 4058 Mud Wt. 9.2
 Top Packer Depth 4591 (shale) Drill Collars Run 530 Vis 76
 Bottom Packer Depth 4596 Wt. Pipe Run - WL 6.0
 Total Depth 4650 Chlorides 1000 ppm System LCM 3

Blow Description IF: Blow built to 1/2", dieing back at 23min., surface blow at close
ISI: Bled off, No blowback
FF: No blow
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud w/trace oil</u>	<u>trace</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 134 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2420 Test * 1250 T-On Location 14:30/19:40
 (B) First Initial Flow 19 Jars * 250 T-Started 19:42
 (C) First Final Flow 21 Safety Joint * 75 T-Open 21:41
 (D) Initial Shut-In 921 Circ Sub *NA T-Pulled 00:44
 (E) Second Initial Flow 22 Hourly Standby T-Out 2:40
 (F) Second Final Flow 24 Mileage 90RTx2 279 Comments Rig waited for wind
 (G) Final Shut-In 786 Sampler to go down 15:15 - said I
 (H) Final Hydrostatic 2403 Straddle could go home to wait
 Shale Packer * 250 Ruined Shale Packer
 Ruined Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 2104 Sub Total 0
 Total 2104 MP/DST Disc't

Approved By _____ Our Representative James Winder

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48248

Well Name & No. Poore #1-14 Test No. 5 Date 10-18-12
 Company Murfin Drilling Co. Inc Elevation 3327 KB 3317 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Bob Stolzle Rig Murfin #14
 Location: Sec. 14 Twp. 3s Rge. 36w Co. Rawlins State KS

Interval Tested 4645 - 4740 Zone Tested Lower Pawnee, Ft. Scott, Cherokee
 Anchor Length 95 Drill Pipe Run 4091 Mud Wt. 9.1
 Top Packer Depth 4640 (shale) Drill Collars Run 530 Vis 74
 Bottom Packer Depth 4645 Wt. Pipe Run - WL 6.0
 Total Depth 4740 Chlorides 900 ppm System LCM 4
 Blow Description IF: Blow built to 2 1/4"
ISI: Bled off, No blowback
FF: Blow built to 4 1/2"
FST: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>MCO</u>	<u>1</u>	<u>79</u>	<u>-</u>	<u>20</u>
<u>70</u>	<u>OCM</u>	<u>3</u>	<u>22</u>	<u>-</u>	<u>75</u>
	<u>GIP = 90'</u>				

Rec Total 90 BHT _____ Gravity 26.8 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2400</u>	<input type="checkbox"/> Test <u>*</u> 1250	T-On Location <u>21:15</u>
(B) First Initial Flow <u>22</u>	<input type="checkbox"/> Jars <u>*</u> 250	T-Started <u>21:51</u>
(C) First Final Flow <u>32</u>	<input type="checkbox"/> Safety Joint <u>*</u> 75	T-Open <u>00:29</u>
(D) Initial Shut-In <u>1127</u>	<input checked="" type="checkbox"/> Circ Sub <u>ANA</u>	T-Pulled <u>5:31</u>
(E) Second Initial Flow <u>37</u>	<input type="checkbox"/> Hourly Standby <u>4hr</u> 25	T-Out <u>7:30</u>
(F) Second Final Flow <u>59</u>	<input type="checkbox"/> Mileage <u>90RT</u> 139.50	Comments _____
(G) Final Shut-In <u>951</u>	<input checked="" type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2324</u>	<input checked="" type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer <u>*</u> 250	<input checked="" type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Extra Packer _____	<input checked="" type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input checked="" type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>90</u>	<input checked="" type="checkbox"/> Day Standby _____	Total <u>1989.50</u>
Final Shut-In <u>120</u>	<input checked="" type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1989.50</u>	

Approved By _____ Our Representative James Winder

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