



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

2-2s-36w Rawlins,KS

Wilkinson Trust "KP" #1-2

Start Date: 2014.11.13 @ 19:32:00

End Date: 2014.11.14 @ 02:56:30

Job Ticket #: 60865 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.18 @ 10:08:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling CO., Inc

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Wilkinson Trust "KP" #1-2

2-2s-36w Rawlins,KS

Job Ticket: 60865

DST#: 1

Test Start: 2014.11.13 @ 19:32:00

GENERAL INFORMATION:

Formation: **Stotler**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:50:00

Time Test Ended: 02:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Donovan Baumann

Unit No: 48

Interval: 3986.00 ft (KB) To 4043.00 ft (KB) (TVD)

Reference Elevations: 3328.00 ft (KB)

Total Depth: 4043.00 ft (KB) (TVD)

3317.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 218.80 psig @ 3987.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.13

End Date:

2014.11.14

Last Calib.:

2014.11.14

Start Time: 19:32:01

End Time:

02:56:30

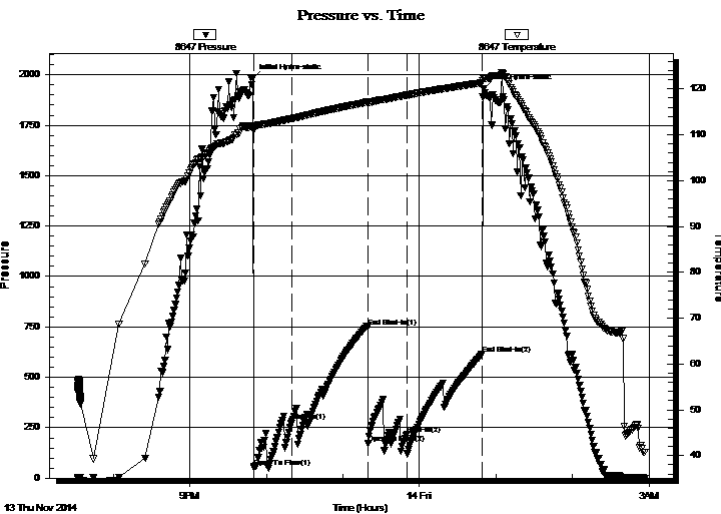
Time On Btm:

2014.11.13 @ 21:49:30

Time Off Btm:

2014.11.14 @ 00:50:30

TEST COMMENT: 30 - IF - Strong surface blow built to 1" in. in 20 min. then stayed there (In Diesel)
60 - ISI - No return
30 - FF - Weak surface blow built to 1/4" in. in 15 min. and stayed there (In Diesel)
60 - FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.09	111.70	Initial Hydro-static
1	53.54	110.93	Open To Flow (1)
31	282.22	113.54	Shut-In(1)
90	751.46	117.13	End Shut-In(1)
91	173.68	116.96	Open To Flow (2)
121	218.80	118.63	Shut-In(2)
180	615.32	121.33	End Shut-In(2)
181	1930.57	122.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling CO., Inc
250 N Water STE 300
Wichita, KS 67202
ATTN: Saman Sharifaie

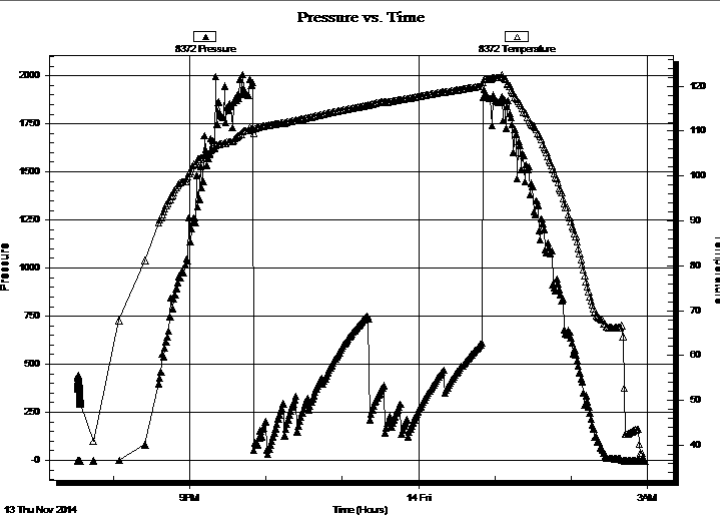
Wilkinson Trust "KP" #1-2
2-2s-36w Rawlins, KS
Job Ticket: 60865 **DST#: 1**
Test Start: 2014.11.13 @ 19:32:00

GENERAL INFORMATION:

Formation: **Stotler**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 21:50:00 Tester: Donovan Baumann
Time Test Ended: 02:56:30 Unit No: 48
Interval: 3986.00 ft (KB) To 4043.00 ft (KB) (TVD) Reference Elevations: 3328.00 ft (KB)
Total Depth: 4043.00 ft (KB) (TVD) 3317.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8372 Outside
Press@RunDepth: psig @ 3987.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.11.13 End Date: 2014.11.14 Last Calib.: 2014.11.14
Start Time: 19:32:01 End Time: 02:58:00 Time On Btm:
Time Off Btm:

TEST COMMENT: 30 - IF - Strong surface blow built to 1" in. in 20 min. then stayed there (In Diesel)
60 - ISI - No return
30 - FF - Weak surface blow built to 1/4" in. in 15 min. and stayed there (In Diesel)
60 - FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling CO., Inc

Wilkinson Trust "KP" #1-2

250 N Water STE 300
Wichita, KS 67202

2-2s-36w Rawlins,KS

Job Ticket: 60865

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.11.13 @ 19:32:00

Tool Information

Drill Pipe:	Length: 3784.00 ft	Diameter: 3.80 inches	Volume: 53.08 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: 205.92 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.09 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	31.92 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3986.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	85.00 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			3959.00	
Shut In Tool	5.00			3964.00	
Hydraulic tool	5.00		Inside	3969.00	
Jars	5.00			3974.00	
Safety Joint	3.00			3977.00	
Packer	5.00			3982.00	28.00 Bottom Of Top Packer
Packer	4.00			3986.00	
Stubb	1.00			3987.00	
Recorder	0.00	8647	Inside	3987.00	
Recorder	0.00	8372	Outside	3987.00	
Perforations	20.00			4007.00	
Change Over Sub	1.00			4008.00	
Drill Pipe	31.00			4039.00	
Change Over Sub	1.00			4040.00	
Bullnose	3.00			4043.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO., Inc

Wilkinson Trust "KP" #1-2

250 N Water STE 300
Wichita, KS 67202

2-2s-36w Rawlins,KS

Job Ticket: 60865

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2014.11.13 @ 19:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

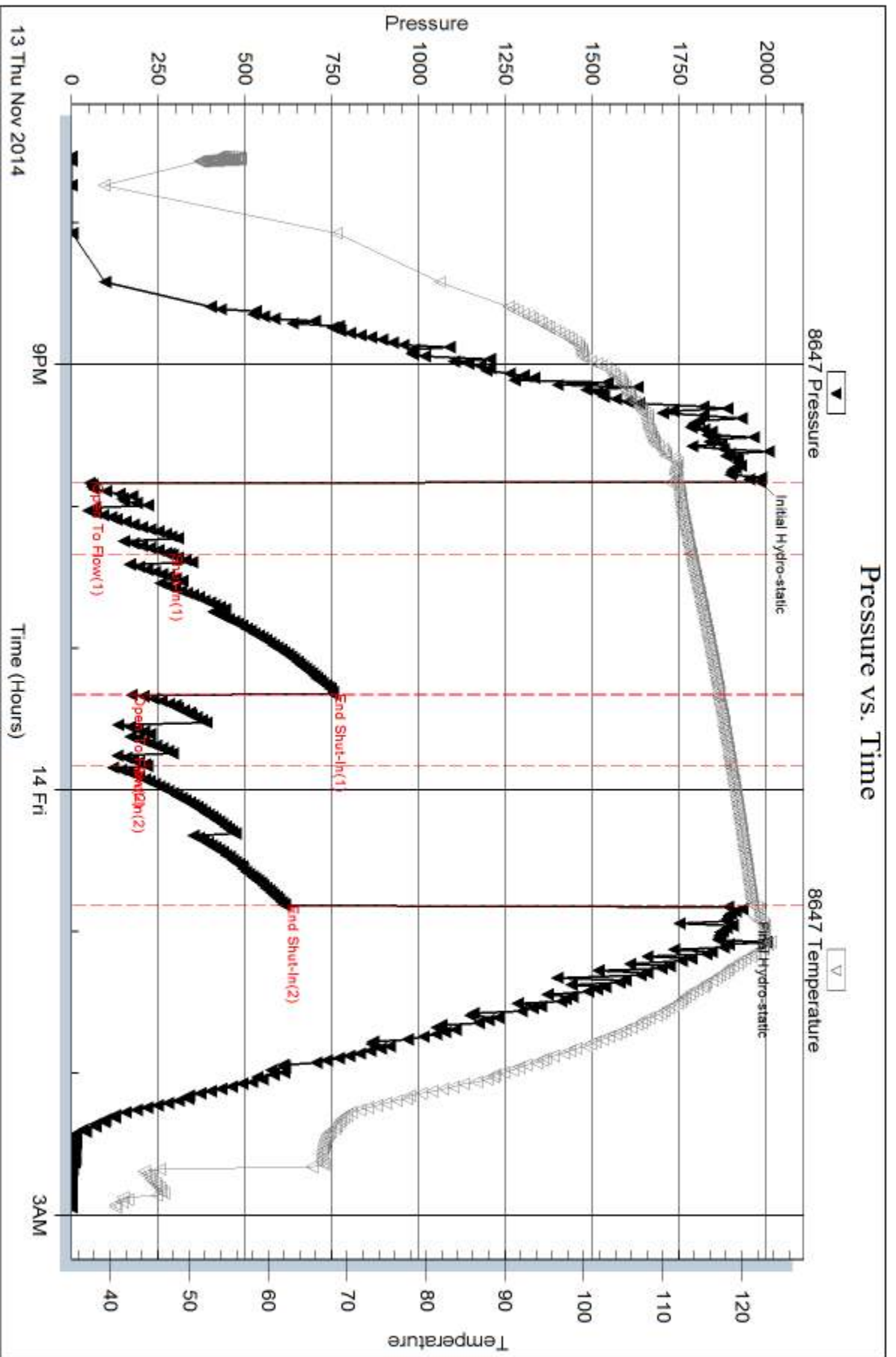
Num Gas Bombs: 0

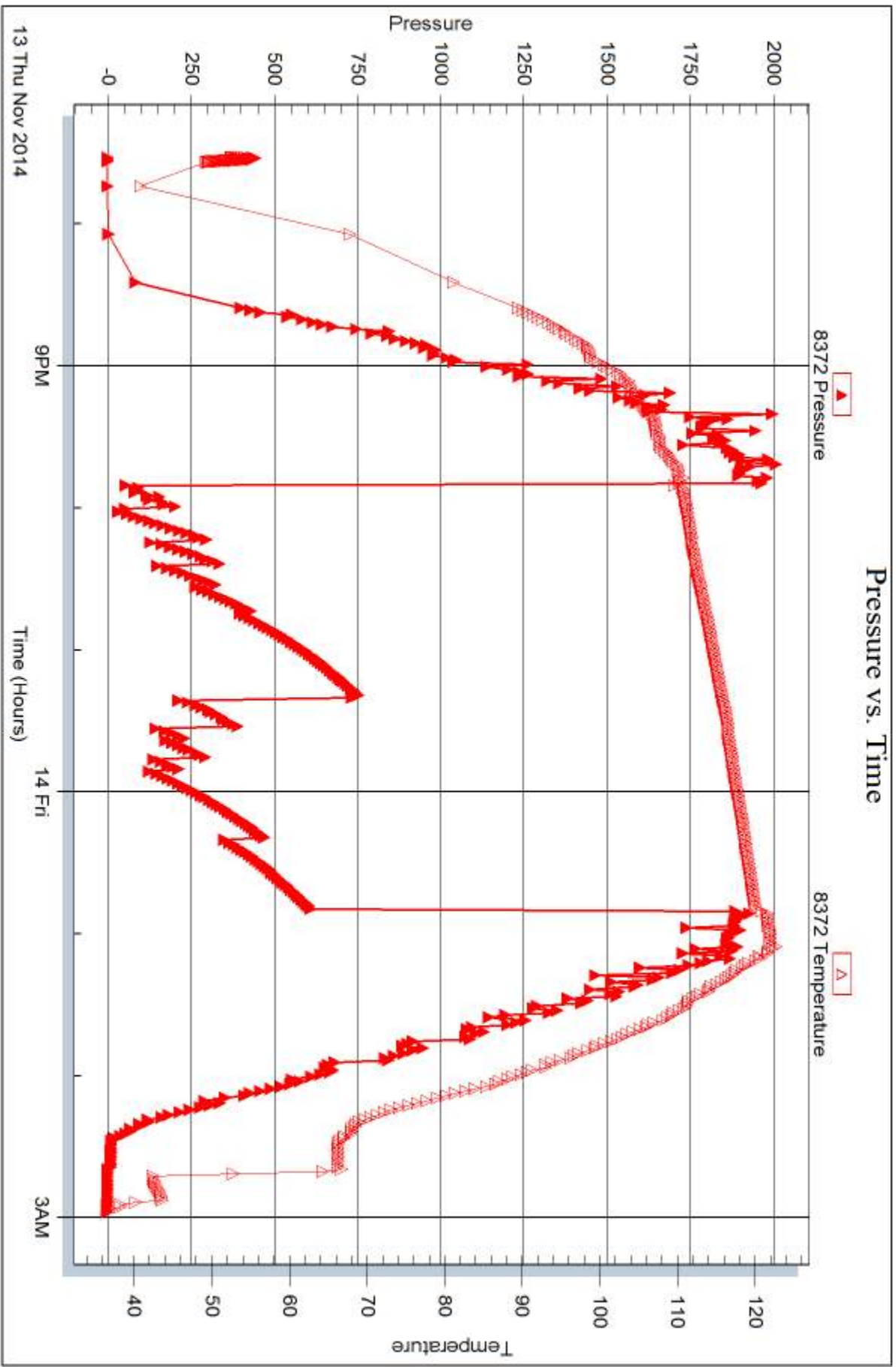
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

2-2s-36w Rawlins,KS

Wilkinson Trust "KP" #1-2

Start Date: 2014.11.15 @ 01:39:01

End Date: 2014.11.15 @ 10:40:00

Job Ticket #: 60866 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.18 @ 10:07:56

Murfin Drilling CO., Inc

Wilkinson Trust "KP" #1-2

2-2s-36w Rawlins,KS

DST # 2

LKC "B-D"

2014.11.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling CO., Inc

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Wilkinson Trust "KP" #1-2

2-2s-36w Rawlins,KS

Job Ticket: 60866

DST#: 2

Test Start: 2014.11.15 @ 01:39:01

GENERAL INFORMATION:

Formation: **LKC "B-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:51:00

Time Test Ended: 10:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Donovan Baumann

Unit No: 48

Interval: 4276.00 ft (KB) To 4334.00 ft (KB) (TVD)

Reference Elevations: 3328.00 ft (KB)

Total Depth: 4334.00 ft (KB) (TVD)

3317.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 919.18 psig @ 4277.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.15

End Date: 2014.11.15

Last Calib.: 2014.11.15

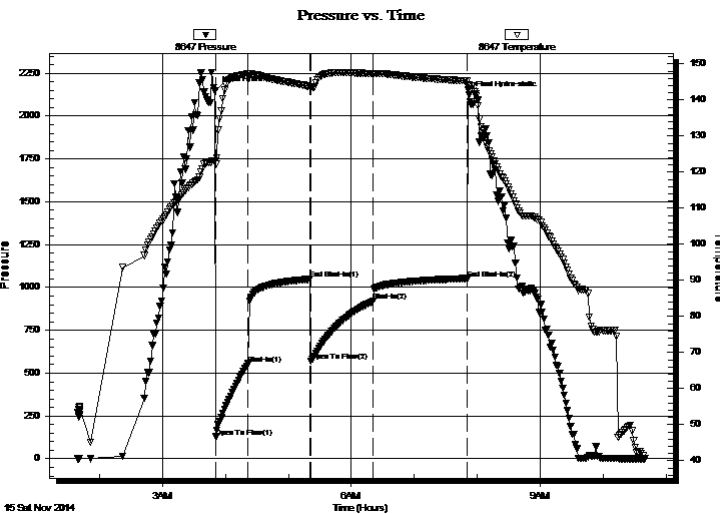
Start Time: 01:39:01

End Time: 10:40:00

Time On Btm: 2014.11.15 @ 03:50:30

Time Off Btm: 2014.11.15 @ 07:52:00

TEST COMMENT: 30 - IF - Strong surface blow built to BOB in 4 min. (In Deisel)
60 - ISI - No return
60 - FF - Strong surface blow built to BOB in 4 min. (In Deisel)
90 - FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.98	123.26	Initial Hydro-static
1	128.11	122.21	Open To Flow (1)
31	555.44	147.20	Shut-In(1)
90	1048.44	143.69	End Shut-In(1)
91	569.08	143.40	Open To Flow (2)
150	919.18	147.39	Shut-In(2)
240	1052.45	145.27	End Shut-In(2)
242	2122.23	144.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1118.00	MCW - 5M - 95W	13.81
252.00	MCW - 20M - 80W	3.53
378.00	MCW - 35M - 65W - Oil spots	5.30
255.00	WCWO - 20W - 30M - 50o	3.58

Gas Rates

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



DRILL STEM TEST REPORT

Murfin Drilling CO., Inc
 250 N Water STE 300
 Wichita, KS 67202
 ATTN: Saman Sharifaie

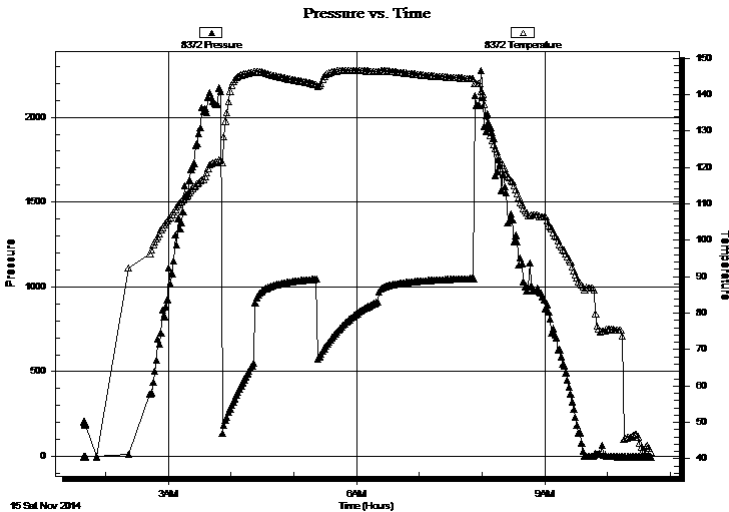
Wilkinson Trust "KP" #1-2
2-2s-36w Rawlins,KS
 Job Ticket: 60866 **DST#: 2**
 Test Start: 2014.11.15 @ 01:39:01

GENERAL INFORMATION:

Formation: **LKC "B-D"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:51:00 Tester: Donovan Baumann
 Time Test Ended: 10:40:00 Unit No: 48
Interval: 4276.00 ft (KB) To 4334.00 ft (KB) (TVD) Reference Elevations: 3328.00 ft (KB)
 Total Depth: 4334.00 ft (KB) (TVD) 3317.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

Serial #: 8372 **Outside**
 Press@RunDepth: psig @ 4277.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.15 End Date: 2014.11.15 Last Calib.: 1899.12.30
 Start Time: 01:39:01 End Time: 10:42:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF - Strong surface blow built to BOB in 4 min. (In Deisel)
 60 - ISI - No return
 60 - FF - Strong surface blow built to BOB in 4 min. (In Deisel)
 90 - FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1118.00	MCW - 5M - 95W	13.81
252.00	MCW - 20M - 80W	3.53
378.00	MCW - 35M - 65W - Oil spots	5.30
255.00	WCWO - 20W - 30M - 50o	3.58

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling CO., Inc

Wilkinson Trust "KP" #1-2

250 N Water STE 300
Wichita, KS 67202

2-2s-36w Rawlins,KS

Job Ticket: 60866

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.11.15 @ 01:39:01

Tool Information

Drill Pipe:	Length: 4066.00 ft	Diameter: 3.80 inches	Volume: 57.04 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: 205.92 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 58.05 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	23.92 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4276.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	86.00 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			4249.00	
Shut In Tool	5.00			4254.00	
Hydraulic tool	5.00		Inside	4259.00	
Jars	5.00			4264.00	
Safety Joint	3.00			4267.00	
Packer	5.00			4272.00	28.00 Bottom Of Top Packer
Packer	4.00			4276.00	
Stubb	1.00			4277.00	
Recorder	0.00	8647	Inside	4277.00	
Recorder	0.00	8372	Outside	4277.00	
Perforations	21.00			4298.00	
Change Over Sub	1.00			4299.00	
Drill Pipe	31.00			4330.00	
Change Over Sub	1.00			4331.00	
Bullnose	3.00			4334.00	58.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO., Inc

Wilkinson Trust "KP" #1-2

250 N Water STE 300
Wichita, KS 67202

2-2s-36w Rawlins,KS

Job Ticket: 60866

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2014.11.15 @ 01:39:01

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: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1118.00	MCW - 5M - 95W	13.807
252.00	MCW - 20M - 80W	3.535
378.00	MCW - 35M - 65W - Oil spots	5.302
255.00	WCMO - 20W - 30M - 50o	3.577

Total Length: 2003.00 ft

Total Volume: 26.221 bbl

Num Fluid Samples: 0

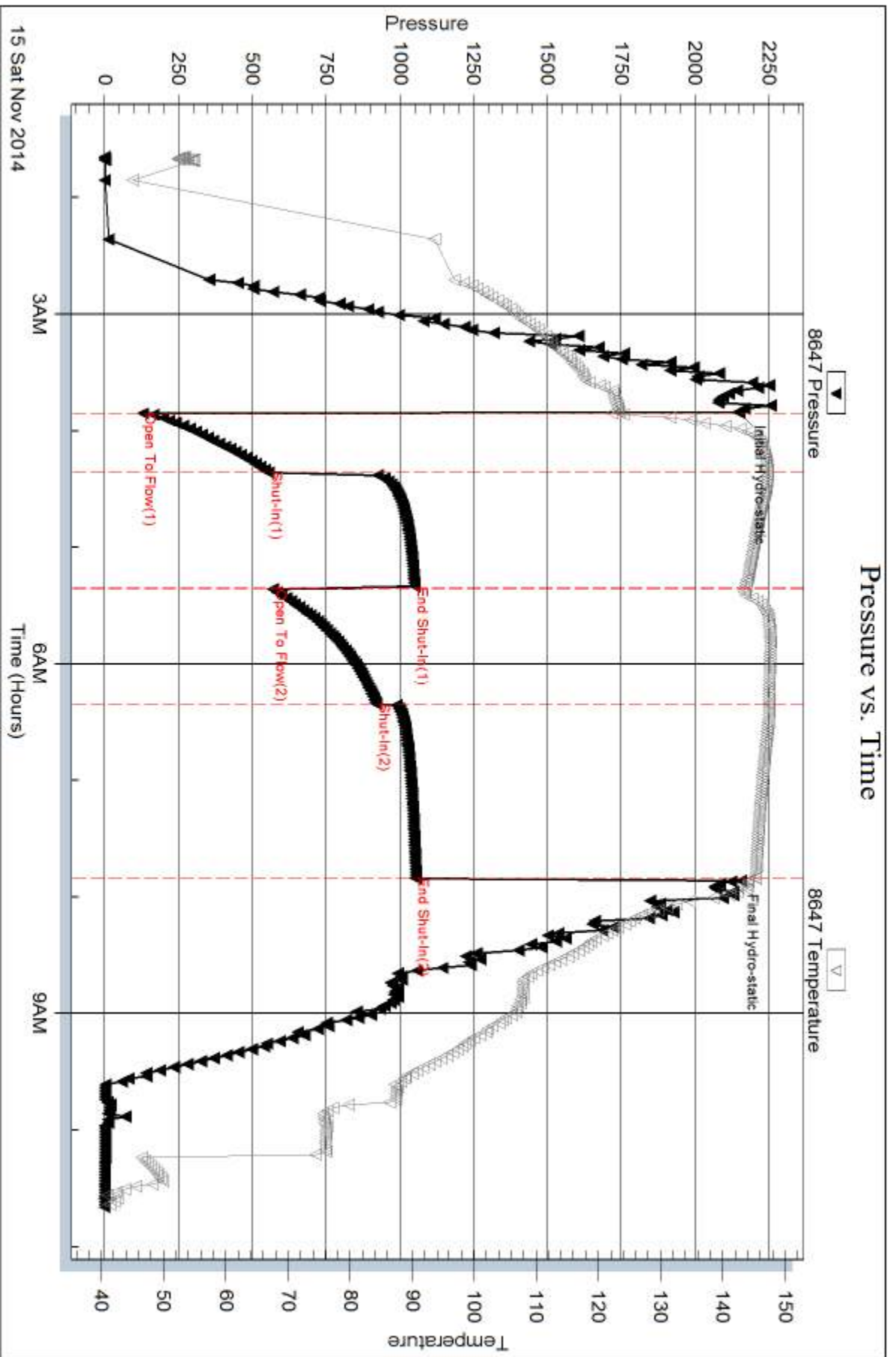
Num Gas Bombs: 0

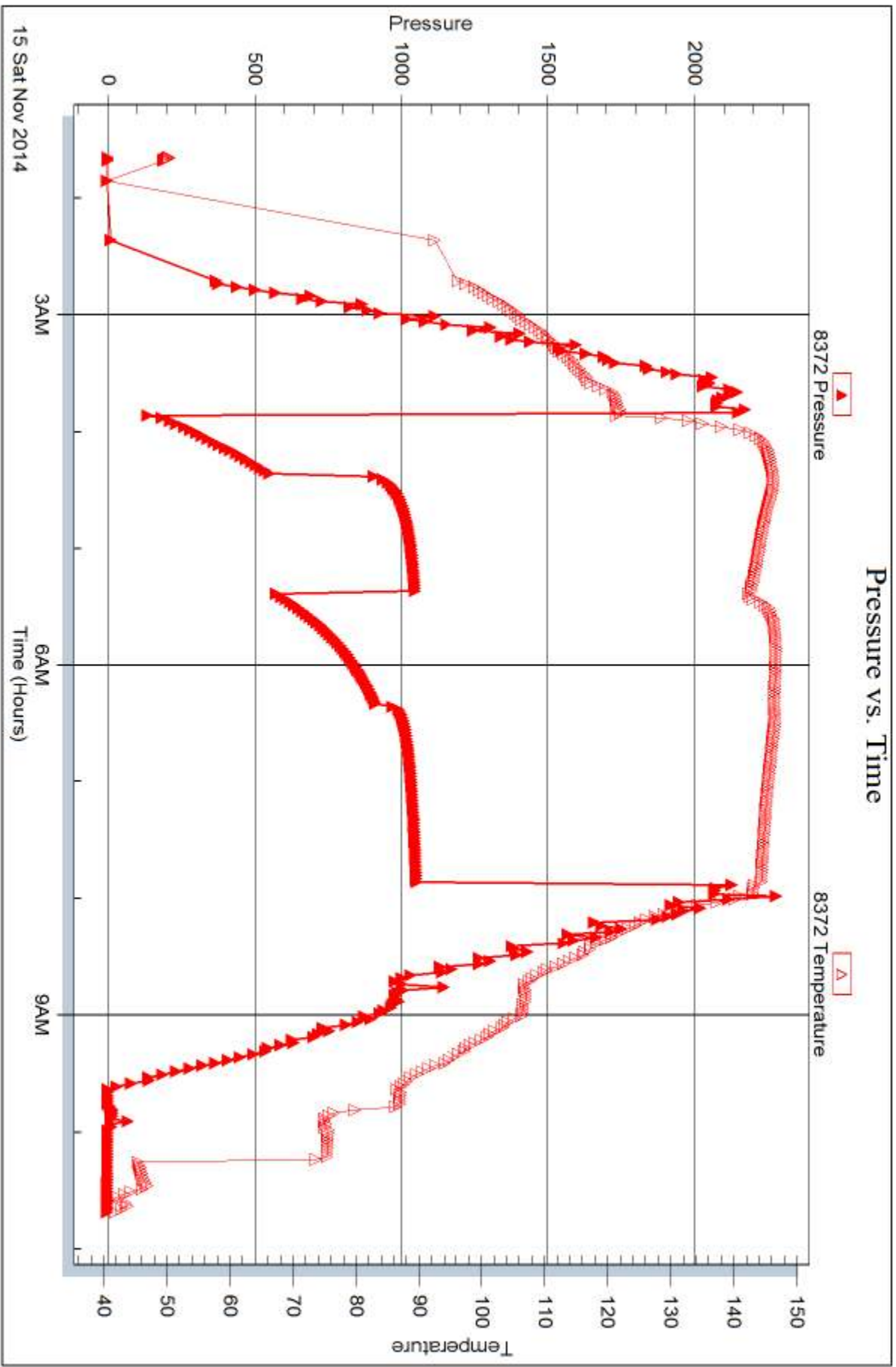
Serial #:

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: Saman Sharifaie

2-2s-36w Rawlins,KS

Wilkinson Trust "KP" #1-2

Start Date: 2014.11.16 @ 01:56:00

End Date: 2014.11.16 @ 10:48:30

Job Ticket #: 60867 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.18 @ 10:05:56



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling CO., Inc

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Wilkinson Trust "KP" #1-2

2-2s-36w Rawlins,KS

Job Ticket: 60867

DST#: 3

Test Start: 2014.11.16 @ 01:56:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:14:00

Time Test Ended: 10:48:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Donovan Baumann

Unit No: 48

Interval: 4382.00 ft (KB) To 4482.00 ft (KB) (TVD)

Reference Elevations: 3328.00 ft (KB)

Total Depth: 4482.00 ft (KB) (TVD)

3317.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8647

Inside

Press@RunDepth: 155.84 psig @ 4383.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.16

End Date: 2014.11.16

Last Calib.: 2014.11.16

Start Time: 01:56:01

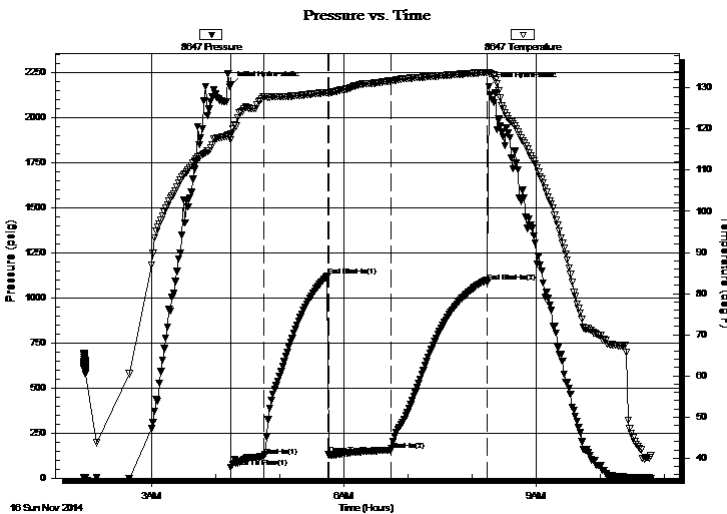
End Time: 10:48:30

Time On Btm: 2014.11.16 @ 04:13:30

Time Off Btm: 2014.11.16 @ 08:16:00

TEST COMMENT: 30 - IF - Strong surface blow built to BOB in 10 min. (In Deisel)
60 - ISI - Weak surface blow built to 1/4" in.
60 - FF - Strong surface blow built to BOB in 16 min
90 - FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.12	118.31	Initial Hydro-static
1	58.05	117.41	Open To Flow (1)
32	120.17	127.76	Shut-In(1)
91	1122.43	128.94	End Shut-In(1)
92	130.27	128.67	Open To Flow (2)
151	155.84	131.73	Shut-In(2)
241	1089.54	133.78	End Shut-In(2)
243	2176.34	133.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252' Gas in pipe	0.00
236.00	MCO - 5M - 95o	1.43
103.00	GCO - 20G - 80o	1.44

Gas Rates

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



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DRILL STEM TEST REPORT

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250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Wilkinson Trust "KP" #1-2

2-2s-36w Rawlins,KS

Job Ticket: 60867

DST#: 3

Test Start: 2014.11.16 @ 01:56:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:14:00
 Time Test Ended: 10:48:30
 Interval: **4382.00 ft (KB) To 4482.00 ft (KB) (TVD)**
 Total Depth: 4482.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Donovan Baumann
 Unit No: 48
 Reference Elevations: 3328.00 ft (KB)
 3317.00 ft (CF)
 KB to GR/CF: 11.00 ft

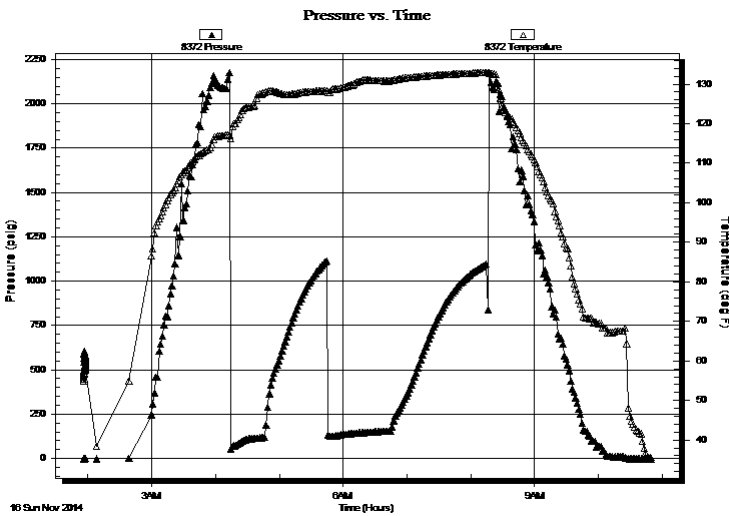
Serial #: 8372

Outside

Press@RunDepth: psig @ 4383.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.11.16 End Date: 2014.11.16 Last Calib.: 2014.11.16
 Start Time: 01:56:01 End Time: 10:50:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF - Strong surface blow built to BOB in 10 min. (In Deisel)
 60 - ISI - Weak surface blow built to 1/4" in.
 60 - FF - Strong surface blow built to BOB in 16 min
 90 - FSI - No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252' Gas in pipe	0.00
236.00	MCO - 5M - 95o	1.43
103.00	GCO - 20G - 80o	1.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling CO., Inc

Wilkinson Trust "KP" #1-2

250 N Water STE 300
Wichita, KS 67202

2-2s-36w Rawlins,KS

Job Ticket: 60867

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.11.16 @ 01:56:00

Tool Information

Drill Pipe:	Length: 4161.08 ft	Diameter: 3.80 inches	Volume: 58.37 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: 205.92 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.38 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4382.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	128.00 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			4355.00	
Shut In Tool	5.00			4360.00	
Hydraulic tool	5.00		Inside	4365.00	
Jars	5.00			4370.00	
Safety Joint	3.00			4373.00	
Packer	5.00			4378.00	28.00 Bottom Of Top Packer
Packer	4.00			4382.00	
Stubb	1.00			4383.00	
Recorder	0.00	8647	Inside	4383.00	
Recorder	0.00	8372	Outside	4383.00	
Perforations	31.00			4414.00	
Change Over Sub	1.00			4415.00	
Drill Pipe	63.00			4478.00	
Change Over Sub	1.00			4479.00	
Bullnose	3.00			4482.00	100.00 Bottom Packers & Anchor

Total Tool Length: 128.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling CO., Inc

Wilkinson Trust "KP" #1-2

250 N Water STE 300
Wichita, KS 67202

2-2s-36w Rawlins,KS

Job Ticket: 60867

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2014.11.16 @ 01:56:00

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	252' Gas in pipe	0.000
236.00	MCO - 5M - 95o	1.435
103.00	GCO - 20G - 80o	1.445

Total Length: 339.00 ft Total Volume: 2.880 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

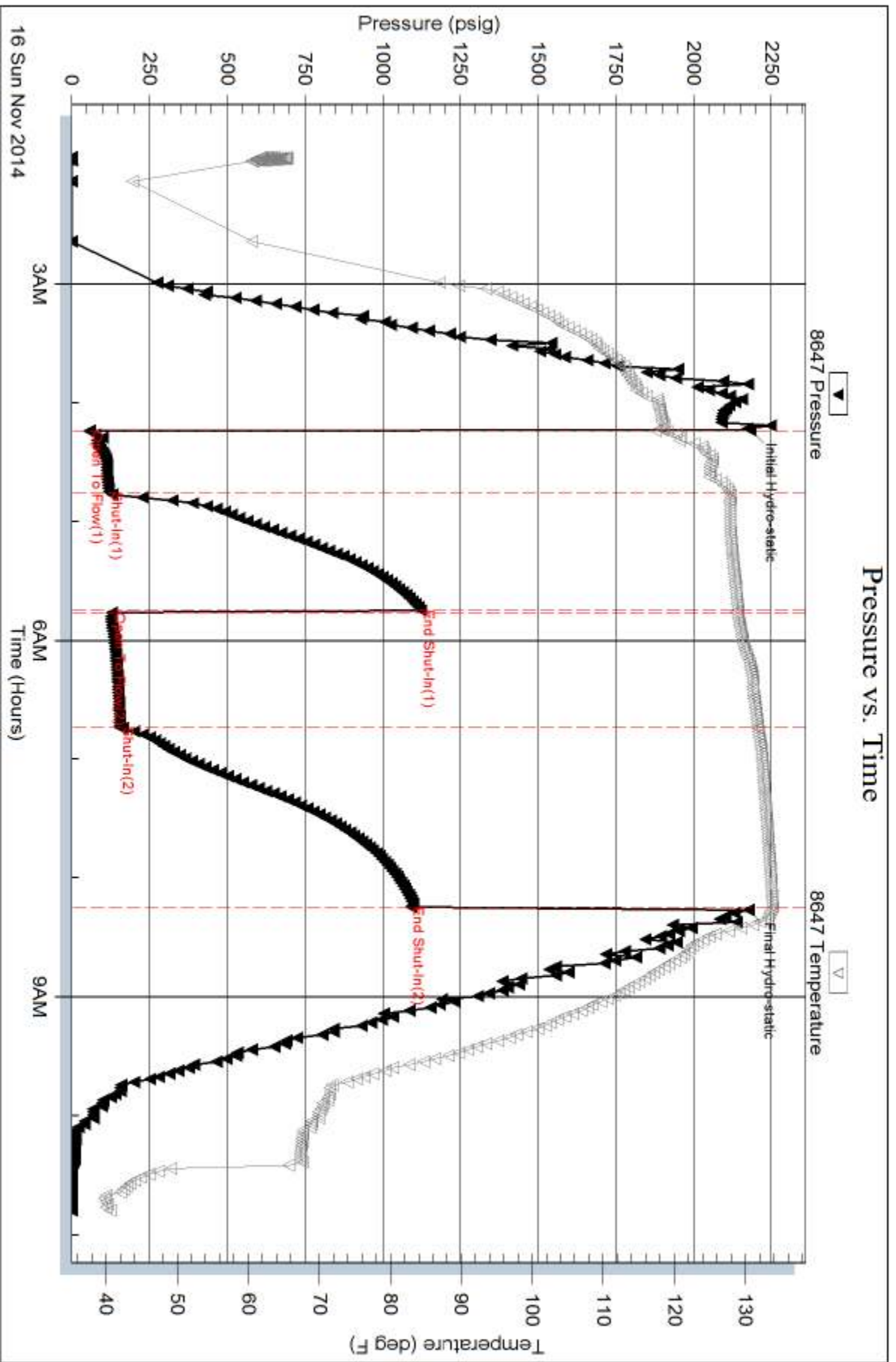
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

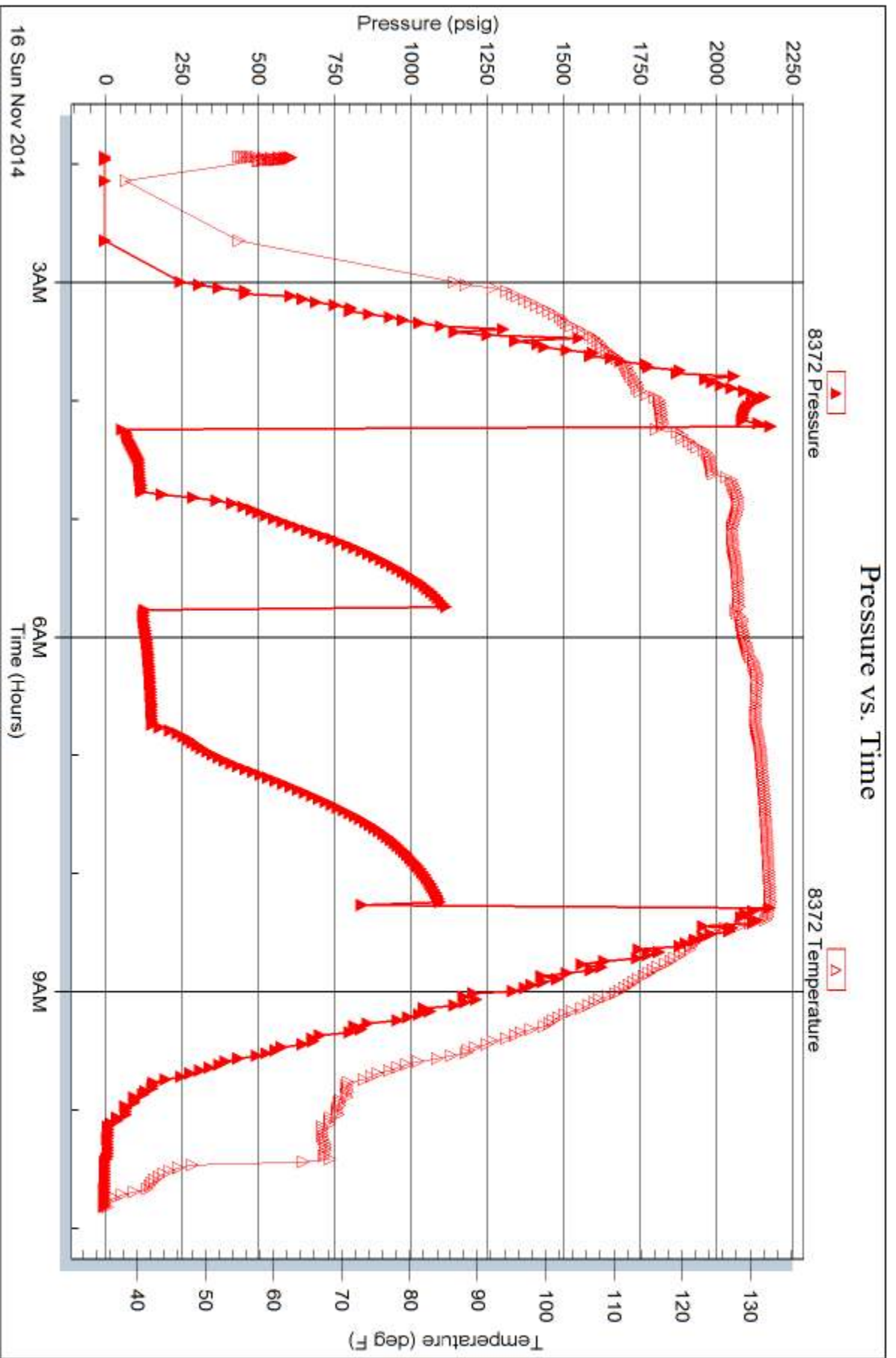


Serial #: 8372

Outside Murfin Drilling CO., Inc

2-2s-36w Rawlins, KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60867

Printed: 2014.11.18 @ 10:05:57



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60865

4/10

Well Name & No. Wilkinson "KP" # 1-2 Test No. 1 Date 11-13-14
 Company Murfin Drilling CO., Inc. Elevation 332.8 KB 3317 GL
 Address 250 N. Water STE 300, Wichita, KS, 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #2
 Location: Sec. 2 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 3986' - 4043' Zone Tested Stotler
 Anchor Length 57' Drill Pipe Run 3784 Mud Wt. 9.1
 Top Packer Depth 3981' Drill Collars Run 205.92 Vis 57
 Bottom Packer Depth 3986' Wt. Pipe Run 0 WL 7.2
 Total Depth 4043' Chlorides 700 ppm System LCM #3
 Blow Description IF - Strong surface blow built 1 in. in 20 min. then stayed there (in Diesel)
ISI - No return
FP - weak surface blow built to 1/4 in. in 15 min. & stayed there (in Diesel)
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
5	mud			100	

Rec Total 5 BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1983</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>5:30 pm</u>
(B) First Initial Flow <u>54</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>7:30 pm</u>
(C) First Final Flow <u>282</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>9:50 pm</u>
(D) Initial Shut-In <u>751</u>	<input checked="" type="checkbox"/> Circ Sub <u>n/c</u>	T-Pulled <u>12:50 am 11-14</u>
(E) Second Initial Flow <u>174</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2:58 am 11-14</u>
(F) Second Final Flow <u>219</u>	<input checked="" type="checkbox"/> Mileage <u>118 RT</u> <u>182.90</u>	Comments _____
(G) Final Shut-In <u>615</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1931</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>1557.90</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1557.90</u>	

Approved By _____ Our Representative [Signature]
 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60866**

4/10

Well Name & No. Wilkinson "KP" #1-2 Test No. 2 Date 11-15-14
 Company Murfin Drilling Co., Inc. Elevation 3328 KB 3317 GL
 Address 250 N Water STE 300, Wichita, KS, 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #2
 Location: Sec. 2 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4276' - 4334' Zone Tested LKC "B-D"
 Anchor Length 58' Drill Pipe Run 4066 Mud Wt. 9.1
 Top Packer Depth 4271' Drill Collars Run 205.92 Vis 68
 Bottom Packer Depth 4276' Wt. Pipe Run Ø WL 5.6
 Total Depth 4334' Chlorides 600 ppm System LCM #5
 Blow Description IF - Strong surface blow built to BOB in 4 min. (In Deisel)
ISI - No return
FF - Strong surface blow built to BOB in 4 min. (In Deisel)
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>255</u>	<u>WCMO</u>		<u>50</u>	<u>20</u>	<u>30</u>
<u>378</u>	<u>mcw</u>		<u>SPOTS</u>	<u>65</u>	<u>35</u>
<u>252</u>	<u>mcw</u>			<u>80</u>	<u>20</u>
<u>1118</u>	<u>mcw</u>			<u>95</u>	<u>5</u>
<u>2003</u>					

Rec Total 2003 BHT 145 Gravity _____ API RW .530 @ 33 °F Chlorides 34000 ppm

(A) Initial Hydrostatic <u>2148</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:35 am</u>
(B) First Initial Flow <u>128</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1:39 am</u>
(C) First Final Flow <u>555</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:51 am</u>
(D) Initial Shut-In <u>1048</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>7:51 am</u>
(E) Second Initial Flow <u>569</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:42 am</u>
(F) Second Final Flow <u>919</u>	<input checked="" type="checkbox"/> Mileage <u>118 R/T</u> 182.90	Comments _____
(G) Final Shut-In <u>1052</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2122</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>1757.90</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1757.90</u>	

Approved By _____ Our Representative Kenneth Baumann

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60867

Well Name & No. Wilkinson "KP" #1-2 Test No. 3 Date 11-16-14
 Company Murfin Drilling Co., Inc Elevation 3328 KB 3317 GL
 Address 250 N. Water STE 300, Wichita, KS, 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #2
 Location: Sec. 2 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4382' - 4482' Zone Tested LKC "H-J"
 Anchor Length 100' Drill Pipe Run 4161 Mud Wt. 9.3
 Top Packer Depth 4377' Drill Collars Run 205.92 Vis 58
 Bottom Packer Depth 4382' Wt. Pipe Run 0 WL 6.4
 Total Depth 4482' Chlorides 600 ppm System LCM #4

Blow Description IF - Strong surface blow built to BOB in 10 min (In Diesel)
ISI - weak surface blow built to 1/4 in.
FF - Strong surface blow built to BOB in 16 min (In Diesel)
FSI - No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>103</u>	<u>GCO</u>	<u>20</u>	<u>80</u>		
<u>236</u>	<u>MCO</u>		<u>95</u>		<u>5</u>
<u>252</u>	<u>gas in pipe</u>				

Rec Total 339 BHT 134 Gravity 32 @ 40° API RW @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2182 Test 1250 T-On Location 1:06 am
 (B) First Initial Flow 58 Jars 250 T-Started 1:56 am
 (C) First Final Flow 120 Safety Joint 75 T-Open 4:15 am
 (D) Initial Shut-In 1122 Circ Sub N/C T-Pulled 8:15 am
 (E) Second Initial Flow 130 Hourly Standby _____ T-Out 10:50 am
 (F) Second Final Flow 156 Mileage 118 R/T 182.90
 (G) Final Shut-In 1090 Sampler 182.90
 (H) Final Hydrostatic 2176 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 800
 Total 2740.80
 MP/DST Disc't _____
 Sub Total 1940.80

Approved By _____ Our Representative Saman Sharifaie

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.