



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Rocky Milford

Downing #1-6

6-1s-35w Rawlins,KS

Start Date: 2014.02.12 @ 05:21:00

End Date: 2014.02.12 @ 14:52:30

Job Ticket #: 55168 DST #: 1

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

Printed: 2014.02.14 @ 16:36:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water Ste. 300
 Wichita KS 67202
 ATTN: Rocky Milford

6-1s-35w Rawlins,KS

Downing #1-6

Job Ticket: 55168

DST#: 1

Test Start: 2014.02.12 @ 05:21:00

GENERAL INFORMATION:

Formation: **LKC D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:24:00
 Time Test Ended: 14:52:30
 Interval: **4143.00 ft (KB) To 4198.00 ft (KB) (TVD)**
 Total Depth: 4198.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3169.00 ft (KB)
 3164.00 ft (CF)
 KB to GR/CF: 5.00 ft

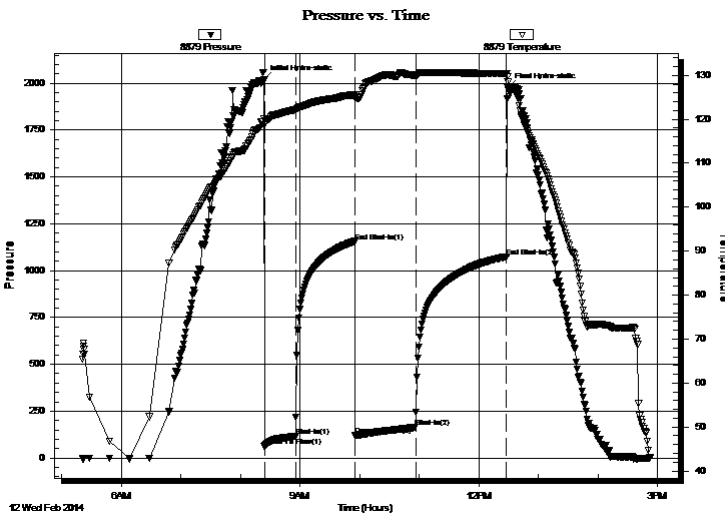
Serial #: 8879

Inside

Press@RunDepth: 163.01 psig @ 4144.00 ft (KB)
 Start Date: 2014.02.12 End Date: 2014.02.12
 Start Time: 05:21:05 End Time: 14:52:30
 Capacity: 8000.00 psig
 Last Calib.: 2014.02.12
 Time On Btm: 2014.02.12 @ 08:23:45
 Time Off Btm: 2014.02.12 @ 12:29:00

TEST COMMENT: 30 - IF - Surface blow built to 6"
 60 - ISI - No Return
 30 - FF - Surface blow built to 2 1/2"
 60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2016.64	120.14	Initial Hydro-static
1	59.47	118.81	Open To Flow (1)
32	116.98	122.20	Shut-In(1)
91	1155.62	125.53	End Shut-In(1)
92	118.95	124.94	Open To Flow (2)
153	163.01	129.98	Shut-In(2)
244	1074.46	130.40	End Shut-In(2)
246	1974.29	128.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	OSMW - 10M - 90W - oil spots	0.97
131.00	OSWM - 60M - 40W - oil spots	1.84

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

6-1s-35w Rawlins,KS

250 N. Water Ste. 300
Wichita KS 67202

Downing #1-6

Job Ticket: 55168

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.02.12 @ 05:21:00

Tool Information

Drill Pipe:	Length: 3942.00 ft	Diameter: 3.80 inches	Volume: 55.30 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 56.21 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4143.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	82.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Hit a bridge 10' off bottom w hich opened tool, unset tool then w ent back dow n and reset tool.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4121.00	
Hydraulic tool	5.00			4126.00	
Jars	5.00			4131.00	
Safety Joint	3.00			4134.00	
Packer	4.00			4138.00	27.00 Bottom Of Top Packer
Packer	5.00			4143.00	
Stubb	1.00			4144.00	
Recorder	0.00	6669	Inside	4144.00	
Recorder	0.00	8879	Inside	4144.00	
Perforations	18.00			4162.00	
Change Over Sub	1.00			4163.00	
Drill Pipe	31.00			4194.00	
Change Over Sub	1.00			4195.00	
Bullnose	3.00			4198.00	55.00 Bottom Packers & Anchor

Total Tool Length: 82.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

6-1s-35w Rawlins,KS

250 N. Water Ste. 300
Wichita KS 67202

Downing #1-6

Job Ticket: 55168

DST#: 1

ATTN: Rocky Milford

Test Start: 2014.02.12 @ 05:21:00

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:

81000 ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 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
189.00	OSMW - 10M - 90W - oil spots	0.966
131.00	OSWM - 60M - 40W - oil spots	1.838

Total Length: 320.00 ft

Total Volume: 2.804 bbl

Num Fluid Samples: 0

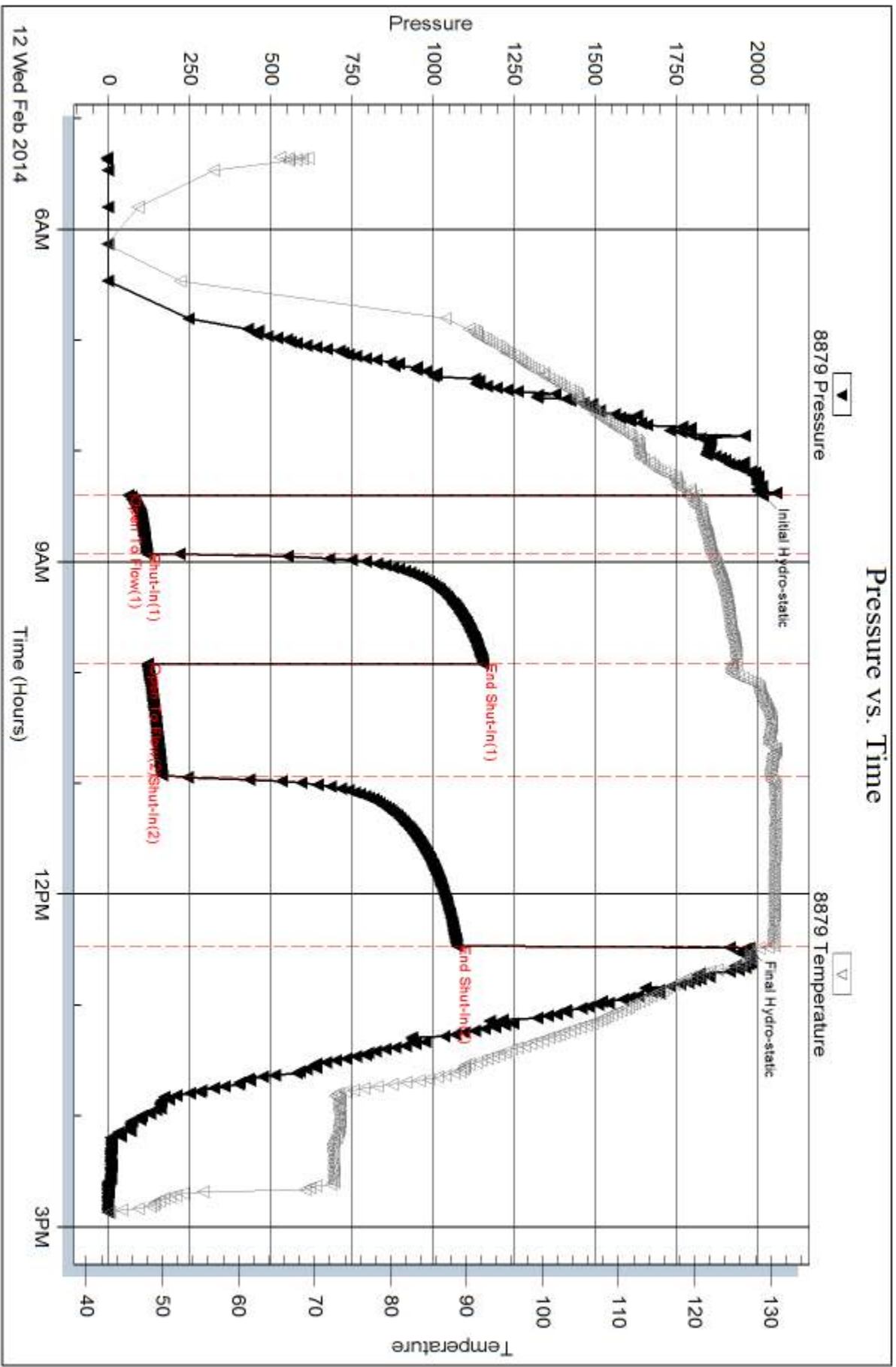
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



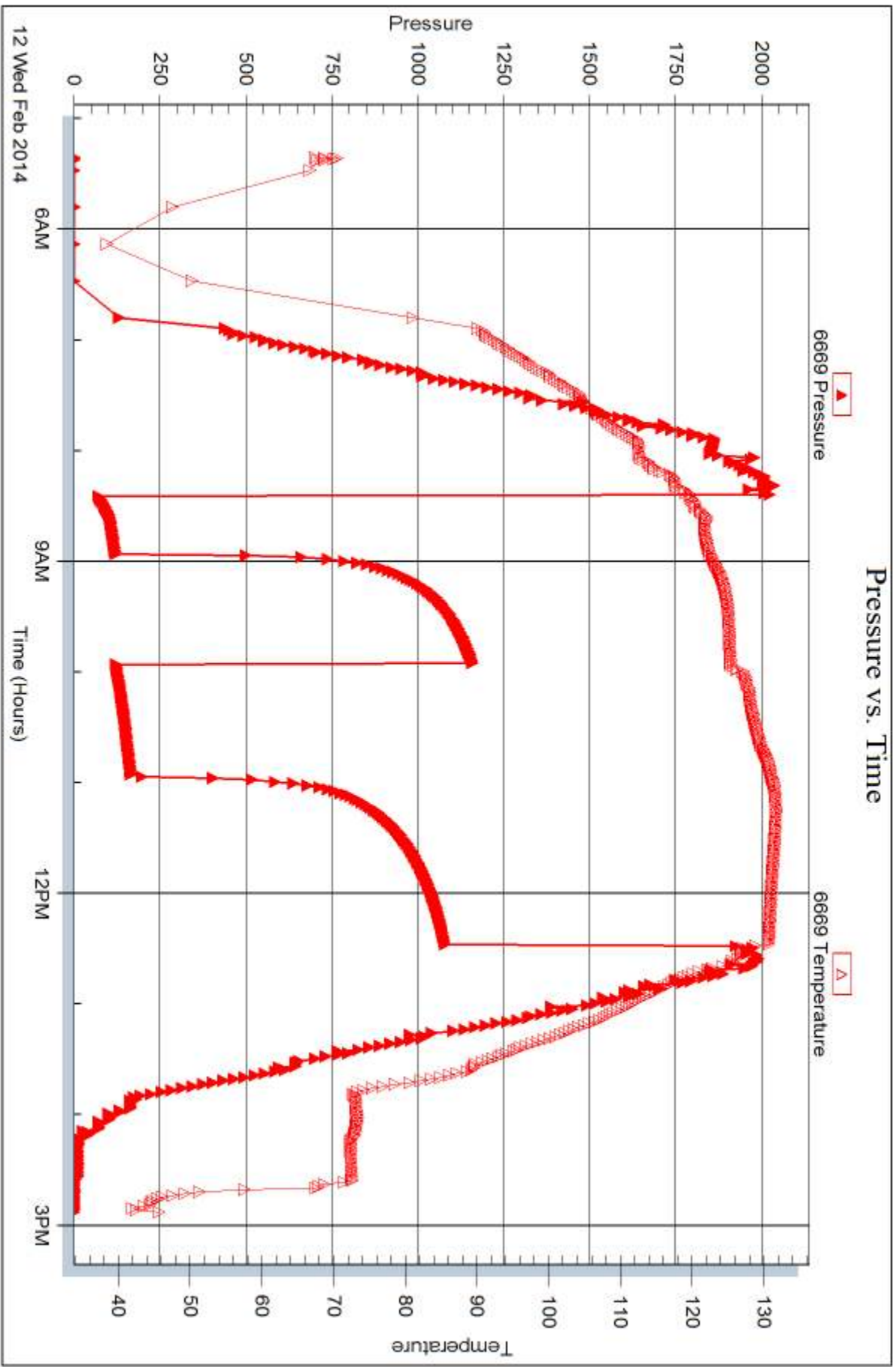
Serial #: 6669

Inside

Murfin Drilling Co., Inc.

Downing #1-6

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55168

Printed: 2014.02.14 @ 16:36:15



DRILL STEM TEST REPORT

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

250 N. Water Ste. 300
Wichita KS 67202

ATTN: Rocky Milford

Downing #1-6

6-1s-35w Rawlins,KS

Start Date: 2014.02.13 @ 03:37:00

End Date: 2014.02.13 @ 11:24:30

Job Ticket #: 55169 DST #: 2

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

Printed: 2014.02.14 @ 16:35:48

Murfin Drilling Co., Inc. 6-1s-35w Rawlins,KS Downing #1-6 DST # 2 LKC G-H 2014.02.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
250 N. Water Ste. 300
Wichita KS 67202
ATTN: Rocky Milford

6-1s-35w Rawlins,KS

Downing #1-6

Job Ticket: 55169

DST#: 2

Test Start: 2014.02.13 @ 03:37:00

GENERAL INFORMATION:

Formation: **LKC G-H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:14:45
 Time Test Ended: 11:24:30
 Interval: **4194.00 ft (KB) To 4298.00 ft (KB) (TVD)**
 Total Depth: 4298.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3169.00 ft (KB)
 3164.00 ft (CF)
 KB to GR/CF: 5.00 ft

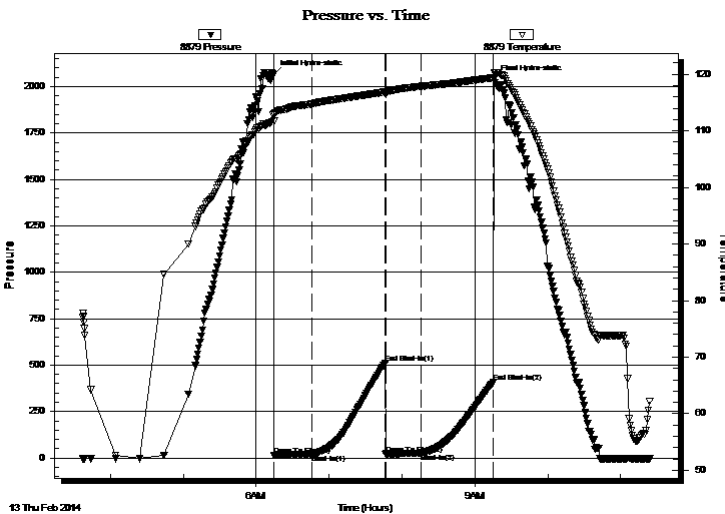
Serial #: 8879

Inside

Press@RunDepth: 24.50 psig @ 4195.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.13 End Date: 2014.02.13 Last Calib.: 2014.02.13
 Start Time: 03:37:05 End Time: 11:24:29 Time On Btm: 2014.02.13 @ 06:14:30
 Time Off Btm: 2014.02.13 @ 09:15:45

TEST COMMENT: 30 - IF - Surface blow built to 3/4"
 60 - ISI - No Return
 30 - FF - No Surface blow
 60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2063.75	112.97	Initial Hydro-static
1	15.39	111.69	Open To Flow (1)
31	19.46	114.76	Shut-In(1)
92	512.35	116.87	End Shut-In(1)
92	19.97	116.48	Open To Flow (2)
121	24.50	117.85	Shut-In(2)
181	406.17	119.37	End Shut-In(2)
182	2039.31	120.24	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

TOOL DIAGRAM

Murfin Drilling Co., Inc.

6-1s-35w Rawlins,KS

250 N. Water Ste. 300
Wichita KS 67202

Downing #1-6

Job Ticket: 55169

DST#: 2

ATTN: Rocky Milford

Test Start: 2014.02.13 @ 03:37:00

Tool Information

Drill Pipe:	Length: 4005.00 ft	Diameter: 3.80 inches	Volume: 56.18 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 57.09 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4194.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	104.00 ft				
Tool Length:	131.00 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			4172.00	
Hydraulic tool	5.00			4177.00	
Jars	5.00			4182.00	
Safety Joint	3.00			4185.00	
Packer	4.00			4189.00	27.00 Bottom Of Top Packer
Packer	5.00			4194.00	
Stubb	1.00			4195.00	
Recorder	0.00	6669	Inside	4195.00	
Recorder	0.00	8879	Inside	4195.00	
Perforations	5.00			4200.00	
Change Over Sub	1.00			4201.00	
Drill Pipe	93.00			4294.00	
Change Over Sub	1.00			4295.00	
Bullnose	3.00			4298.00	104.00 Bottom Packers & Anchor

Total Tool Length: 131.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

6-1s-35w Rawlins,KS

250 N. Water Ste. 300
Wichita KS 67202

Downing #1-6

Job Ticket: 55169

DST#: 2

ATTN: Rocky Milford

Test Start: 2014.02.13 @ 03:37:00

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: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 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

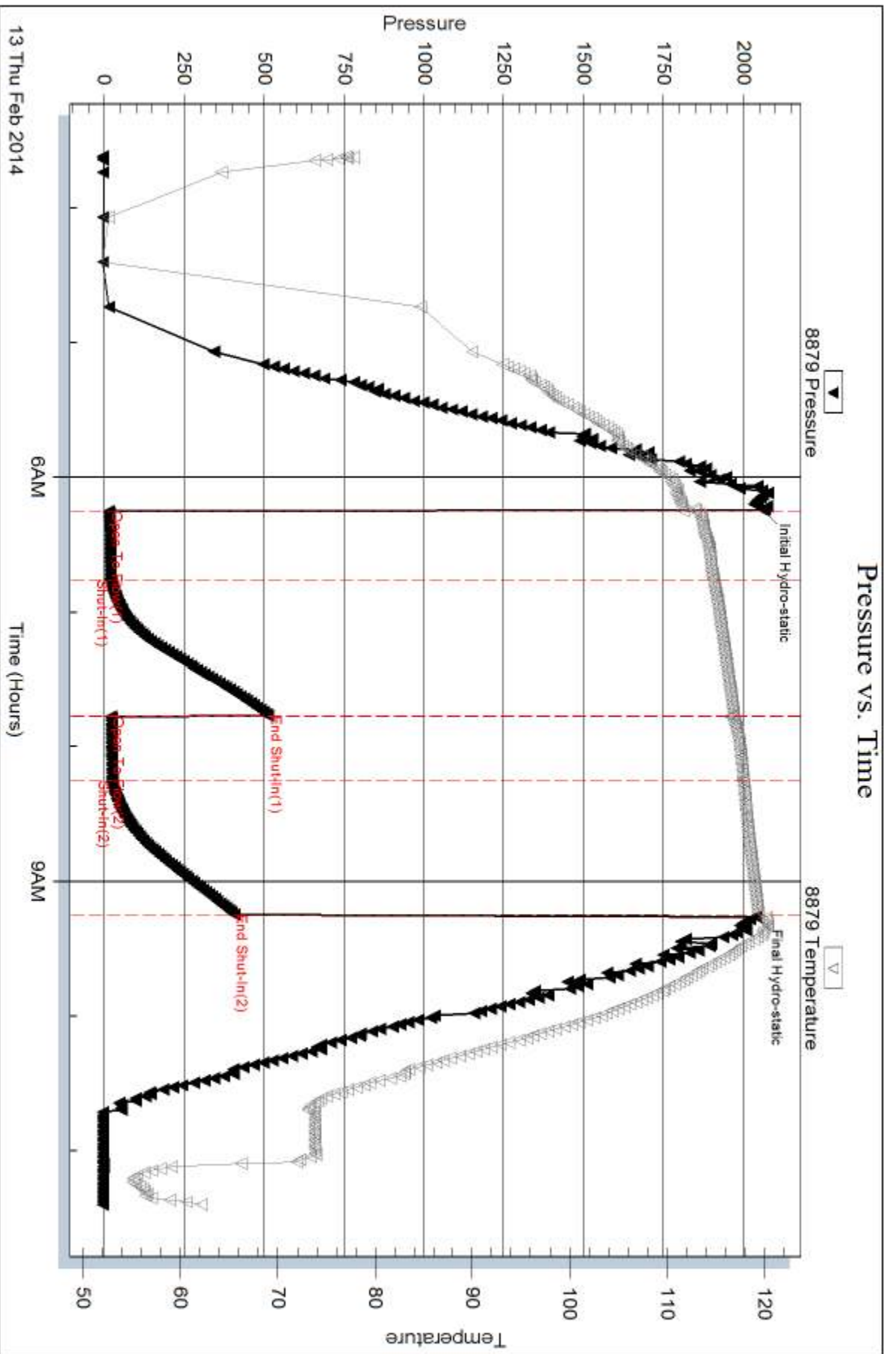
Num Gas Bombs: 0

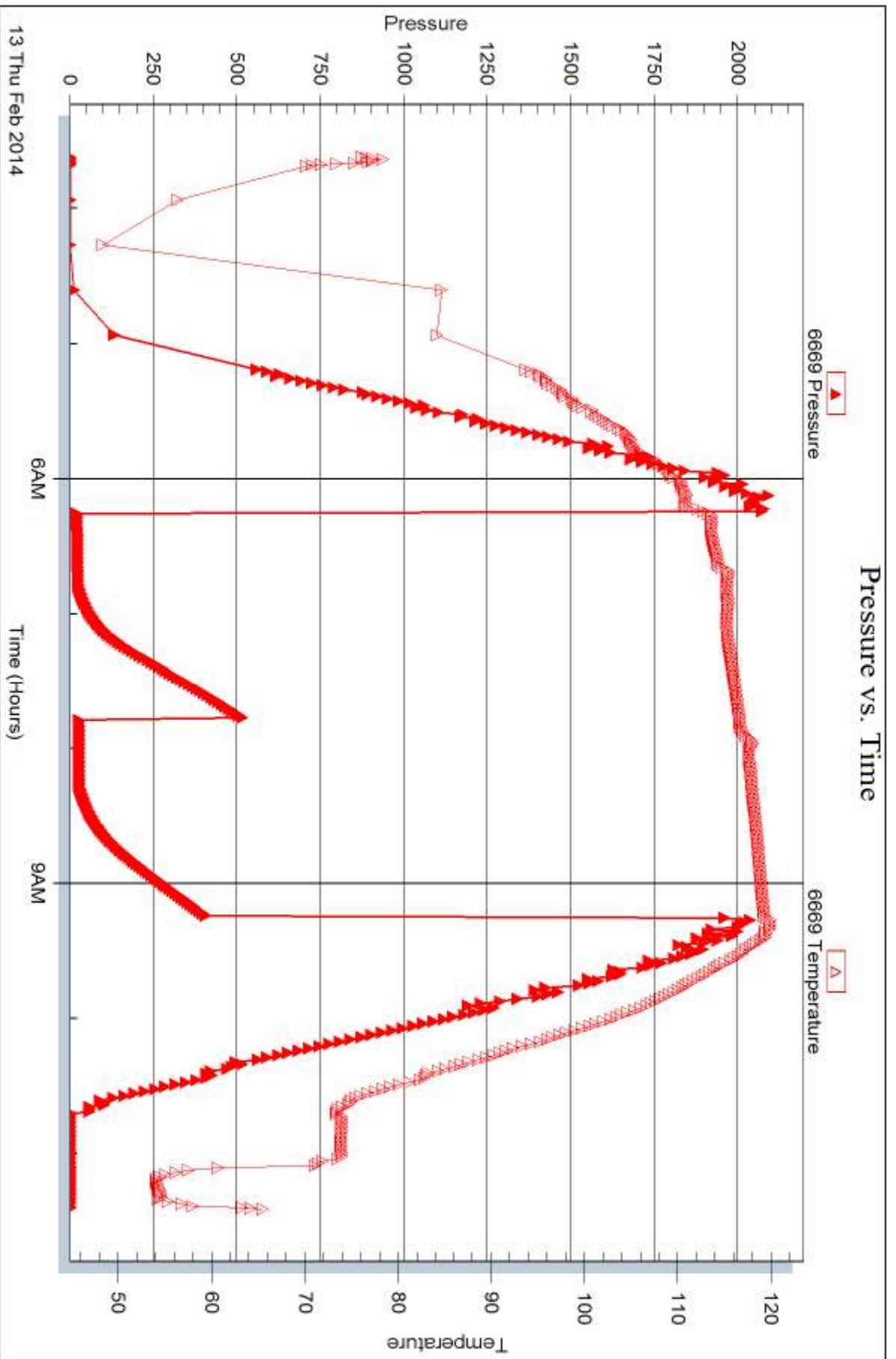
Serial #:

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: Rocky Milford

Downing #1-6

6-1s-35w Rawlins,KS

Start Date: 2014.02.14 @ 00:05:00

End Date: 2014.02.14 @ 10:26:47

Job Ticket #: 55170 DST #: 3

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

Printed: 2014.02.14 @ 16:35:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.
 250 N. Water Ste. 300
 Wichita KS 67202
 ATTN: Rocky Milford

6-1s-35w Rawlins,KS

Downing #1-6

Job Ticket: 55170

DST#: 3

Test Start: 2014.02.14 @ 00:05:00

GENERAL INFORMATION:

Formation: **LKC J-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:59:48
 Time Test Ended: 10:26:47
 Interval: **4296.00 ft (KB) To 4385.00 ft (KB) (TVD)**
 Total Depth: 4385.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Royal Fisher
 Unit No: #54
 Reference Elevations: 3169.00 ft (KB)
 3164.00 ft (CF)
 KB to GR/CF: 5.00 ft

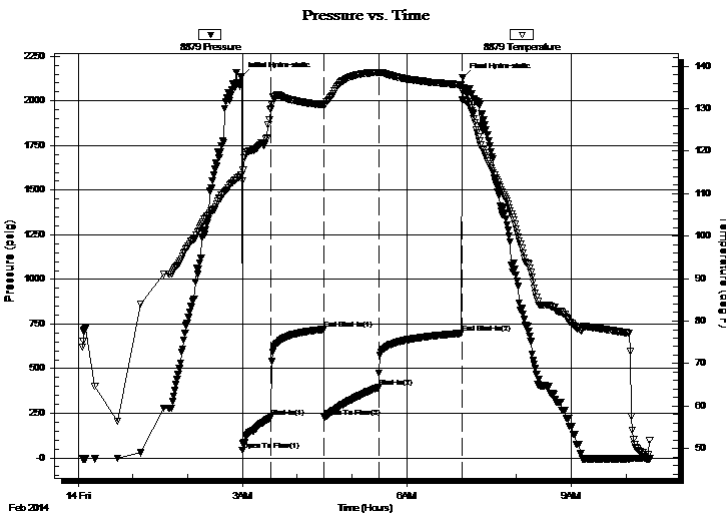
Serial #: 8879

Inside

Press@RunDepth: 395.55 psig @ 4297.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.14 End Date: 2014.02.14 Last Calib.: 2014.02.14
 Start Time: 00:05:05 End Time: 10:26:48 Time On Btm: 2014.02.14 @ 02:59:33
 Time Off Btm: 2014.02.14 @ 07:01:02

TEST COMMENT: 30 - IF - Surface blow built to bottom of bucket in 11 min.
 60 - ISI - Return built to 1/2"
 60 - FF - Surface blow built to bottom of bucket in 11 min.
 90 - FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.86	114.42	Initial Hydro-static
1	44.04	112.98	Open To Flow (1)
32	225.57	130.06	Shut-In(1)
90	720.64	130.93	End Shut-In(1)
90	230.00	130.62	Open To Flow (2)
150	395.55	138.47	Shut-In(2)
241	697.84	135.57	End Shut-In(2)
242	2130.80	133.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
804.00	OSMW - 80W - 20M - oil spots	9.59
46.00	Free oil - 100o	0.65

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

6-1s-35w Rawlins,KS

250 N. Water Ste. 300
Wichita KS 67202

Downing #1-6

Job Ticket: 55170

DST#: 3

ATTN: Rocky Milford

Test Start: 2014.02.14 @ 00:05:00

Tool Information

Drill Pipe:	Length: 4101.00 ft	Diameter: 3.80 inches	Volume: 57.53 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: 185.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 58.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4296.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	89.00 ft			
Tool Length:	116.00 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			4274.00	
Hydraulic tool	5.00			4279.00	
Jars	5.00			4284.00	
Safety Joint	3.00			4287.00	
Packer	4.00			4291.00	27.00 Bottom Of Top Packer
Packer	5.00			4296.00	
Stubb	1.00			4297.00	
Recorder	0.00	6669	Inside	4297.00	
Recorder	0.00	8879	Inside	4297.00	
Perforations	20.00			4317.00	
Change Over Sub	1.00			4318.00	
Drill Pipe	63.00			4381.00	
Change Over Sub	1.00			4382.00	
Bullnose	3.00			4385.00	89.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

6-1s-35w Rawlins,KS

250 N. Water Ste. 300
Wichita KS 67202

Downing #1-6

Job Ticket: 55170

DST#: 3

ATTN: Rocky Milford

Test Start: 2014.02.14 @ 00:05:00

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: 51.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 1100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
804.00	OSMW - 80W - 20M - oil spots	9.593
46.00	Free oil - 100o	0.645

Total Length: 850.00 ft Total Volume: 10.238 bbl

Num Fluid Samples: 0

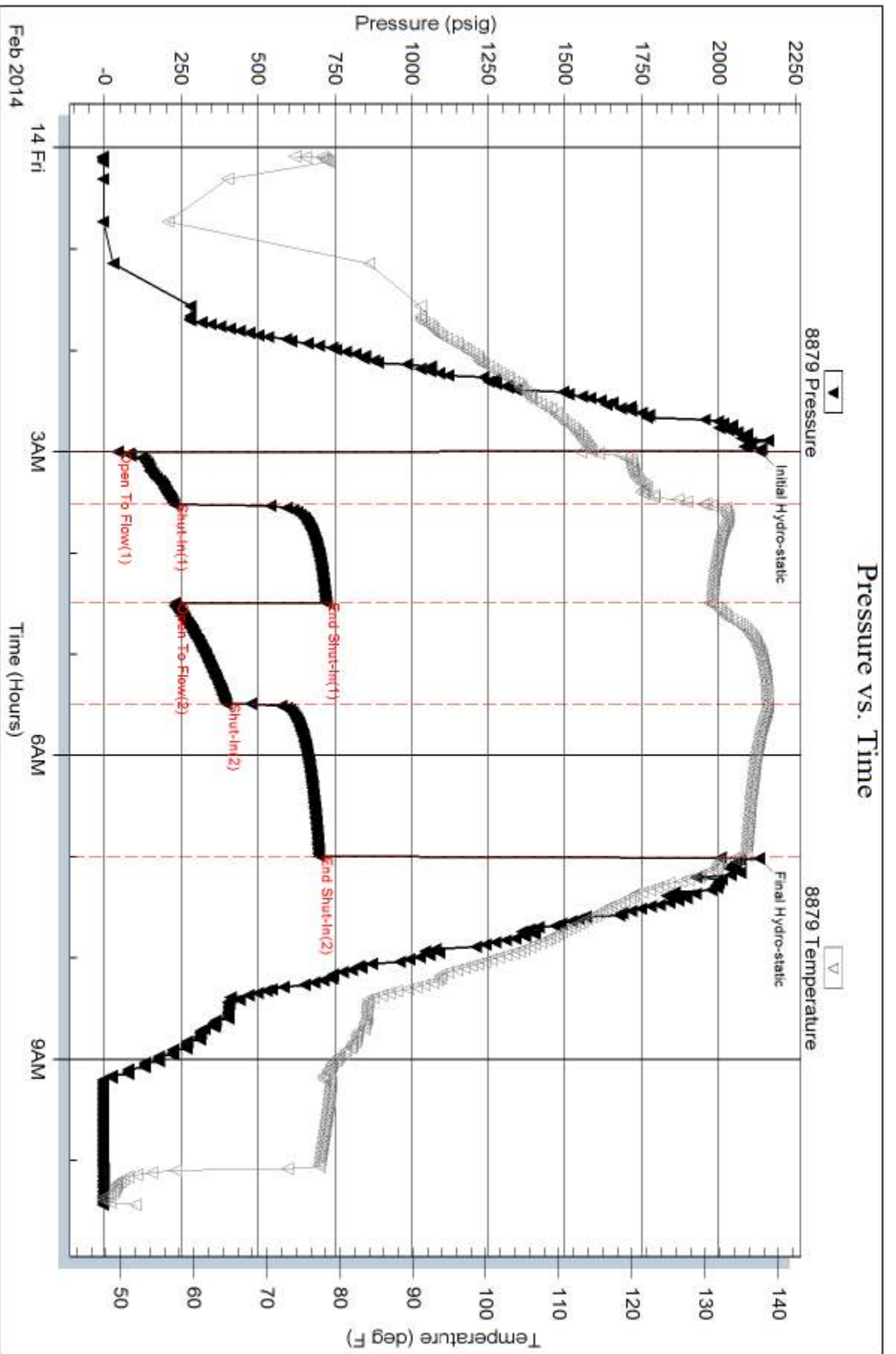
Num Gas Bombs: 0

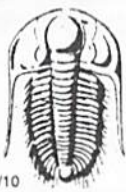
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55168**

Well Name & No. Downing # 1-6 Test No. 1 Date 2-12-14
 Company Murfin Drilling Co., Inc. Elevation 3169 KB 3164 GL
 Address 250 N. Water Ste. 300 Wichita KS, 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 6 Twp. 15 Rge. 35W Co. Rawlins State KS

Interval Tested 4143-4198 Zone Tested Lansing D
 Anchor Length 55' Drill Pipe Run 3942 Mud Wt. 9.0
 Top Packer Depth 4139 Drill Collars Run 185' Vis 80
 Bottom Packer Depth 4143 Wt. Pipe Run 0 WL 5.2
 Total Depth 4198 Chlorides 600 ppm System LCM 4#

Blow Description IF - Surface blow built to 6"
ISI - No Return
FF - Surface blow built to 2 1/2"
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>131</u>	<u>OSWm</u>	<u>Spots</u>	<u>40</u>	<u>60</u>	
<u>189'</u>	<u>OSmw</u>	<u>Spots</u>	<u>90</u>	<u>10</u>	

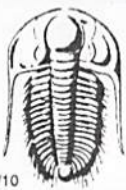
Rec Total 320' BHT 130°F Gravity _____ API RW .155 @ 43 °F Chlorides 81,000 ppm

(A) Initial Hydrostatic 2016 Test 1250 T-On Location 4:35am
 (B) First Initial Flow 59 Jars 250 T-Started 5:21am
 (C) First Final Flow 116 Safety Joint 75 T-Open 8:25am
 (D) Initial Shut-In 1155 Circ Sub N/C T-Pulled 12:25pm
 (E) Second Initial Flow 118 Hourly Standby _____ T-Out 2:53pm
 (F) Second Final Flow 163 Mileage 110 R/T 170.50 Comments Hit bridge 10' off
 (G) Final Shut-In 1074 Sampler _____ bottom opened tool, unset
 (H) Final Hydrostatic 1974 Straddle _____ tool, then reset

Ruined Shale Packer _____
 Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Sub Total 0
 Day Standby _____
 Total 1745.50
 Accessibility _____
 MP/DST Disc't _____
 Sub Total 1745.50

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. 55169

Well Name & No. Downing # 1-#6 Test No. 2 Date 2-13-14
 Company Murfin Drilling Co., Inc. Elevation 3169 KB 3164 GL
 Address 250 N. Water St. 300 Wichita Ks. 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 6 Twp. 1S Rge. 35W Co. Rawlins State KS

Interval Tested 4194 - 4298 Zone Tested LKC G-H
 Anchor Length 104' Drill Pipe Run 4005 Mud Wt. 9.2
 Top Packer Depth 4190 Drill Collars Run 185' Vis 40
 Bottom Packer Depth 4194 Wt. Pipe Run 0 WL 7.2
 Total Depth 4298 Chlorides 500 ppm System LCM 2#
 Blow Description IF - Surface blow built to 3/4"
ISI - No Return
FF - No Surface blow
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</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 5' BHT 119°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2063 Test 1250 T-On Location 2:45am
 (B) First Initial Flow 15 Jars 250 T-Started 3:37am
 (C) First Final Flow 19 Safety Joint 75 T-Open 6:15am
 (D) Initial Shut-In 512 Circ Sub N/C T-Pulled 9:15am
 (E) Second Initial Flow 19 Hourly Standby _____ T-Out 11:25am
 (F) Second Final Flow 24 Mileage 110 R/T 170.50 Comments _____
 (G) Final Shut-In 406 Sampler _____
 (H) Final Hydrostatic 2039 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1745.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1745.50

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. **55170**

Well Name & No. Downing #1-6 Test No. 3 Date 2-13-14
 Company Murfin Drilling Co., Inc. Elevation 3169 KB 3164 GL
 Address 250 N. Water Ste. 300 Wichita KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #8
 Location: Sec. 6 Twp. 1S Rge. 35W Co. Rawlins State KS

Interval Tested 4296 - 4385 Zone Tested LKC J-K
 Anchor Length 89' Drill Pipe Run 4101 Mud Wt. 9.2
 Top Packer Depth 4292 Drill Collars Run 185' Vis 51
 Bottom Packer Depth 4296 Wt. Pipe Run 0 WL 7.6
 Total Depth 4385 Chlorides 1100 ppm System LCM 4#

Blow Description IF-Surface blow built to bottom of bucket in 11 min.
ISI-Return built to 1/2"
FF-Surface blow built to bottom of bucket in 11 min.
FSI-No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>46'</u>	<u>Free oil</u>	<u>100</u>			
<u>804'</u>	<u>OSMW</u>	<u>Spots</u>	<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 850' BHT 135°F Gravity 34 API RW .150 @ 50 °F Chlorides 72000 ppm

(A) Initial Hydrostatic 2134 Test 1250 T-On Location 11:20 pm
 (B) First Initial Flow 44 Jars 250 T-Started 12:05 am
 (C) First Final Flow 225 Safety Joint 75 T-Open 3:00 am
 (D) Initial Shut-In 220 Circ Sub N/C T-Pulled 7:00 am
 (E) Second Initial Flow 230 Hourly Standby .5h 50 T-Out 10:28 am
 (F) Second Final Flow 395 Mileage 110 R/T 170.50 Comments loaded tool after test
 (G) Final Shut-In 697 Sampler
 (H) Final Hydrostatic 2130 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer

Initial Open 30 Extra Packer Extra Copies
 Initial Shut-In 60 Extra Recorder Sub Total 0
 Final Flow 60 Day Standby Total 1795.50
 Final Shut-In 90 Accessibility MP/DST Disc't

Sub Total 1795.50

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