



DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Rocky Milford

Schmidt-Vap #3-26

26-4s-31w Rawlins,KS

Start Date: 2015.03.21 @ 01:42:00

End Date: 2015.03.21 @ 11:55:30

Job Ticket #: 62259 DST #: 1

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

Printed: 2015.03.25 @ 09:38:48

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

Schmidt-Vap #3-26

DST # 1

Toronto - LKC "B"

2015.03.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62259

DST#: 1

ATTN: Rocky Milford

Test Start: 2015.03.21 @ 01:42:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:00:30
 Time Test Ended: 11:55:30
 Interval: **3865.00 ft (KB) To 3953.00 ft (KB) (TVD)**
 Total Depth: 3953.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 57
 Reference Elevations: 2899.00 ft (KB)
 2894.00 ft (CF)
 KB to GR/CF: 5.00 ft

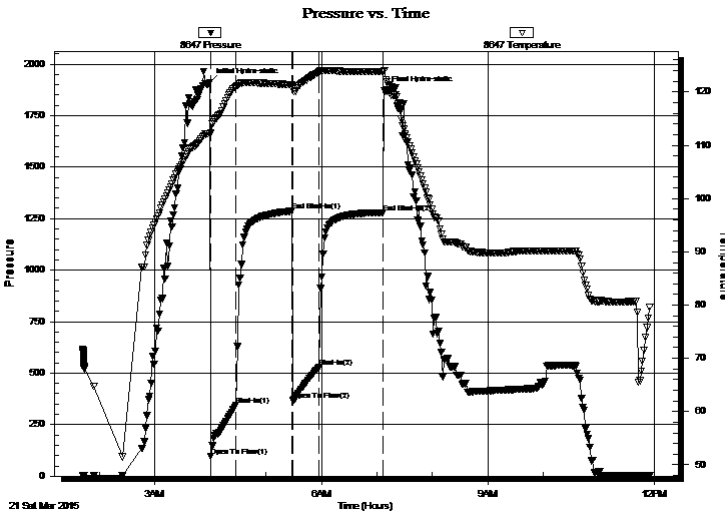
Serial #: 8647

Inside

Press@RunDepth: 530.34 psig @ 3866.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.21 End Date: 2015.03.21 Last Calib.: 2015.03.21
 Start Time: 01:42:01 End Time: 11:55:30 Time On Btm: 2015.03.21 @ 03:59:00
 Time Off Btm: 2015.03.21 @ 07:08:00

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 3 1/2 min.
 60 - ISI - Return built to B.o.B in 27 min
 30 - FF - Blow built to B.o.B in 3 1/2 min.
 60 - FSI - Return built to B.o.B in 26 1/2 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.17	112.23	Initial Hydro-static
2	95.32	112.27	Open To Flow (1)
29	345.04	120.91	Shut-In(1)
89	1286.73	121.38	End Shut-In(1)
90	366.31	120.89	Open To Flow (2)
119	530.34	123.76	Shut-In(2)
188	1277.29	123.77	End Shut-In(2)
189	1869.18	123.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
258.00	MCO 60%o, 40%m	1.36
1124.00	GO 70%o, 30%g	15.77
0.00	1116'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62259

DST#: 1

ATTN: Rocky Milford

Test Start: 2015.03.21 @ 01:42:00

Tool Information

Drill Pipe:	Length: 3612.00 ft	Diameter: 3.80 inches	Volume: 50.67 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.50 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.50 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3865.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3842.00	
Hydraulic tool	5.00			3847.00	
Jars	5.00			3852.00	
Safety Joint	3.00			3855.00	
Packer	5.00			3860.00	28.00 Bottom Of Top Packer
Packer	5.00			3865.00	
Stubb	1.00			3866.00	
Recorder	0.00	8647	Inside	3866.00	
Recorder	0.00	8372	Outside	3866.00	
Perforations	18.00			3884.00	
Change Over Sub	1.00			3885.00	
Drill Pipe	64.00			3949.00	
Change Over Sub	1.00			3950.00	
Bullnose	3.00			3953.00	88.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62259

DST#: 1

ATTN: Rocky Milford

Test Start: 2015.03.21 @ 01:42:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
258.00	MCO 60%o, 40%m	1.355
1124.00	GO 70%o, 30%g	15.767
0.00	1116'	0.000

Total Length: 1382.00 ft Total Volume: 17.122 bbl

Num Fluid Samples: 0

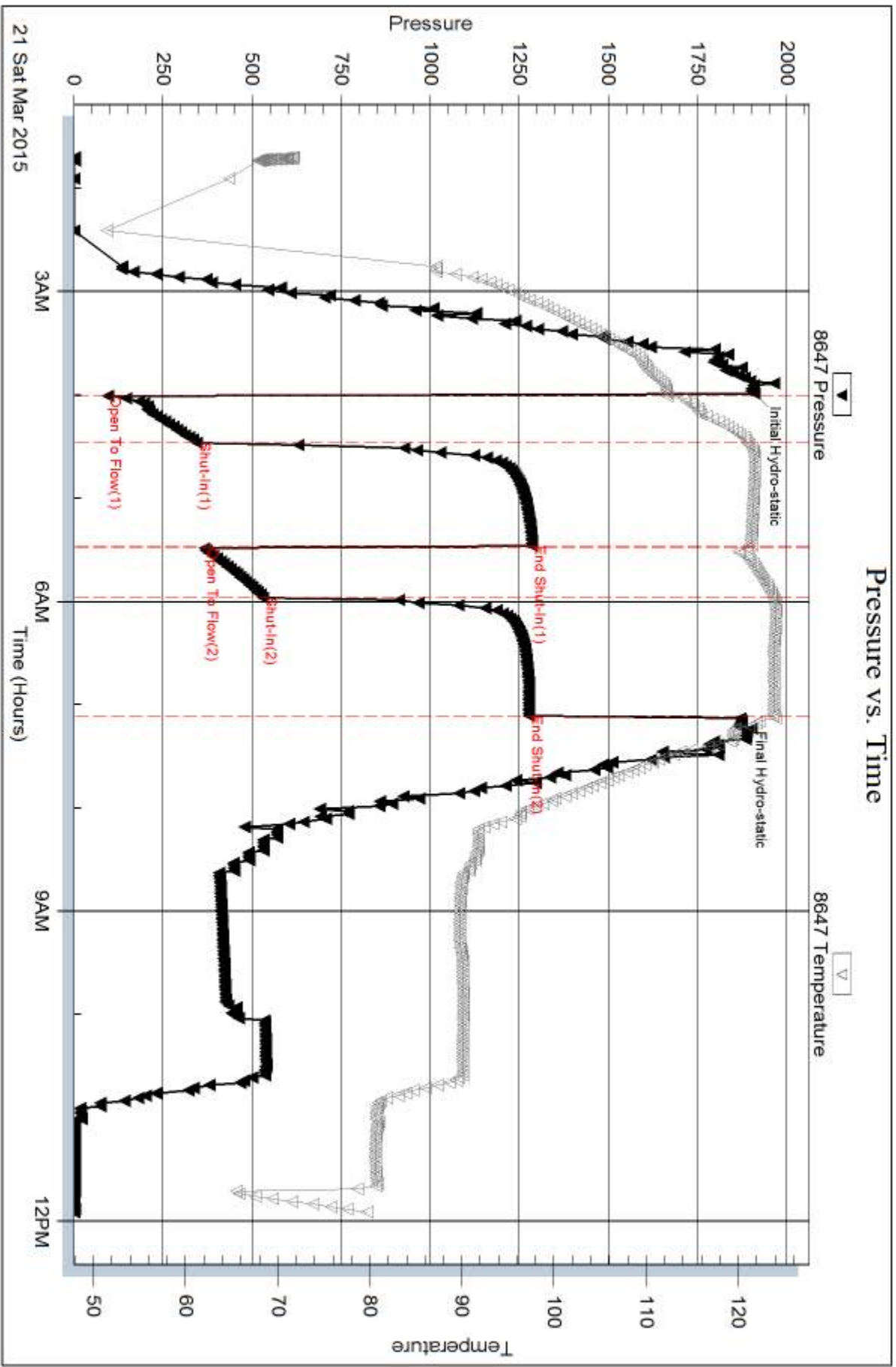
Num Gas Bombs: 0

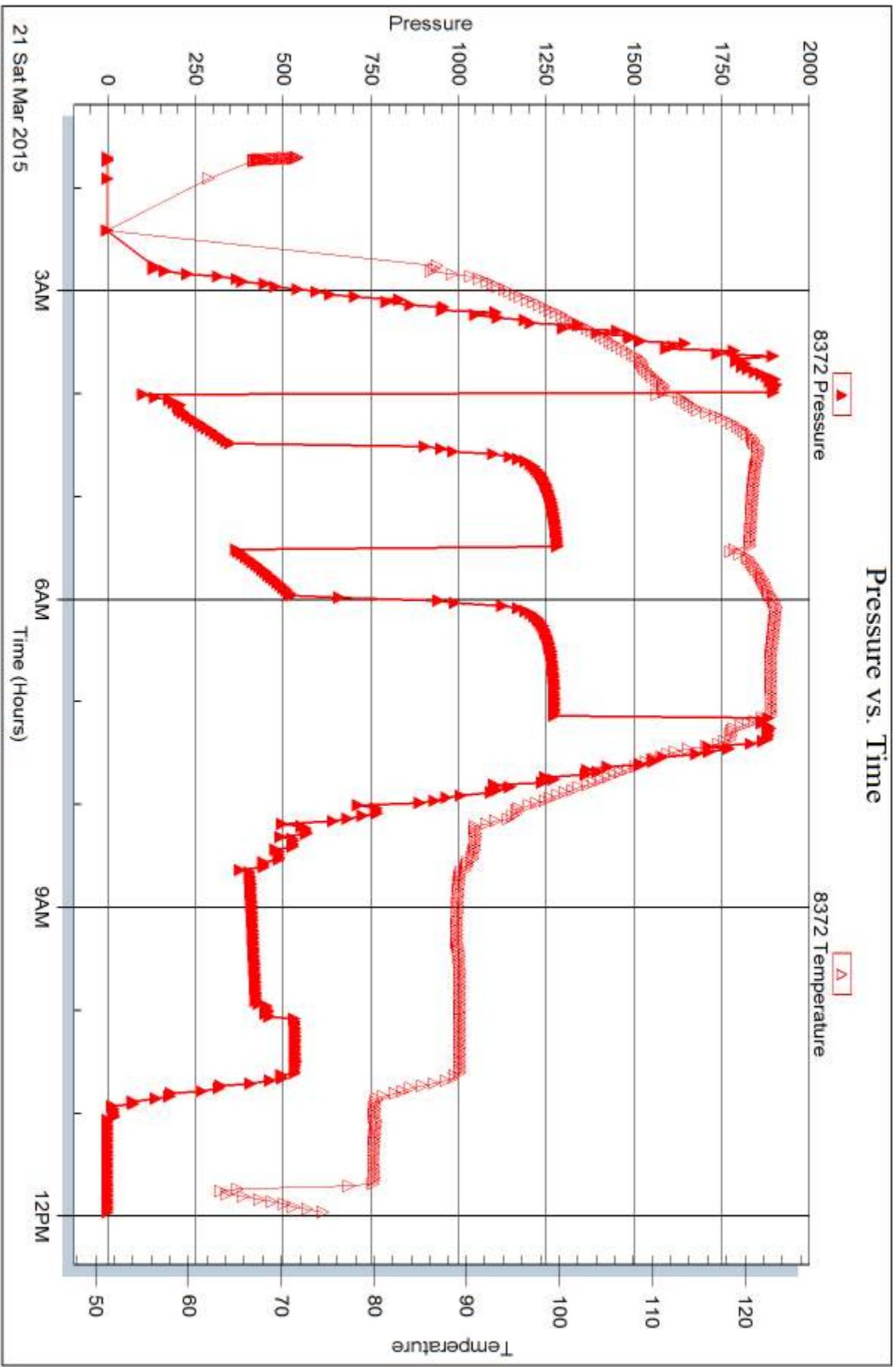
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 30 @ 58 Corrected = 30







DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Rocky Milford

Schmidt-Vap #3-26

26-4s-31w Rawlins,KS

Start Date: 2015.03.21 @ 22:22:00

End Date: 2015.03.22 @ 07:09:00

Job Ticket #: 62260 DST #: 2

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

Printed: 2015.03.25 @ 09:38:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62260

DST#: 2

ATTN: Rocky Milford

Test Start: 2015.03.21 @ 22:22:00

GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:36:00

Time Test Ended: 07:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 3967.00 ft (KB) To 4020.00 ft (KB) (TVD)

Reference Elevations: 2899.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

2894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 208.77 psig @ 3968.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.21

End Date:

2015.03.22

Last Calib.:

2015.03.22

Start Time: 22:22:01

End Time:

07:09:00

Time On Btm:

2015.03.22 @ 00:33:00

Time Off Btm:

2015.03.22 @ 04:37:30

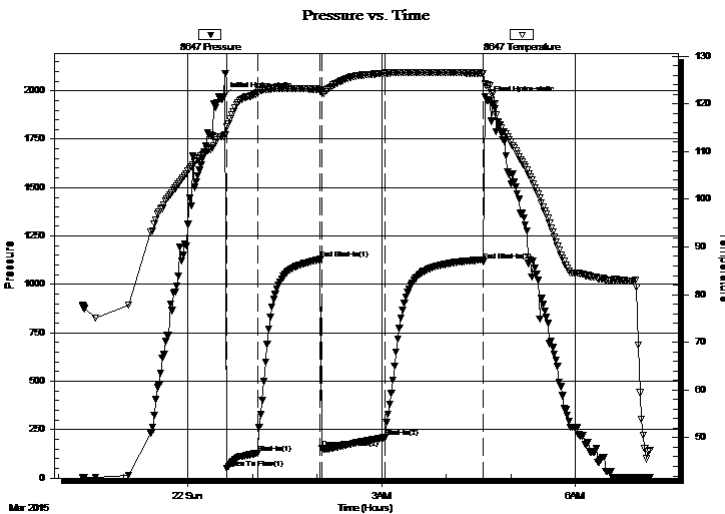
TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 6 min.

60 - ISI - Return built to 9", died back to 6"

60 - FF - Blow built to B.o.B in 13 min.

90 - FSI - Blow built to 2", died back to nothing

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.58	113.21	Initial Hydro-static
3	50.64	115.09	Open To Flow (1)
32	129.01	122.24	Shut-In(1)
90	1129.92	123.03	End Shut-In(1)
92	152.00	122.23	Open To Flow (2)
150	208.77	126.36	Shut-In(2)
242	1119.63	126.38	End Shut-In(2)
245	1951.17	123.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	GMCO 40%g,30%o,30%m	0.91
321.00	GO 68%o, 32%m	3.92
0.00	1008' GIP	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins, KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62260

DST#: 2

ATTN: Rocky Milford

Test Start: 2015.03.21 @ 22:22:00

GENERAL INFORMATION:

Formation: **LKC "E-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:36:00

Time Test Ended: 07:09:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 3967.00 ft (KB) To 4020.00 ft (KB) (TVD)

Total Depth: 4020.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2899.00 ft (KB)

2894.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press@RunDepth: psig @ 3968.00 ft (KB)

Start Date: 2015.03.21

End Date:

2015.03.22

Start Time: 22:22:01

End Time:

07:11:00

Capacity: 8000.00 psig

Last Calib.:

2015.03.22

Time On Btm:

Time Off Btm:

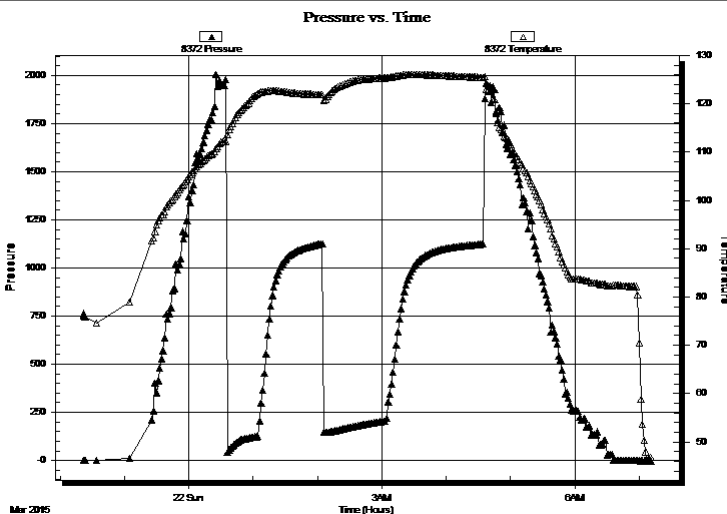
TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 6 min.

60 - ISI - Return built to 9", died back to 6"

60 - FF - Blow built to B.o.B in 13 min.

90 - FSI - Blow built to 2", died back to nothing

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
185.00	GMCO 40%g,30%o,30%m	0.91
321.00	GO 68%o, 32%m	3.92
0.00	1008' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62260

DST#: 2

ATTN: Rocky Milford

Test Start: 2015.03.21 @ 22:22:00

Tool Information

Drill Pipe:	Length: 3707.00 ft	Diameter: 3.80 inches	Volume: 52.00 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.50 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.50 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3967.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3944.00	
Hydraulic tool	5.00			3949.00	
Jars	5.00			3954.00	
Safety Joint	3.00			3957.00	
Packer	5.00			3962.00	28.00 Bottom Of Top Packer
Packer	5.00			3967.00	
Stubb	1.00			3968.00	
Recorder	0.00	8647	Inside	3968.00	
Recorder	0.00	8372	Outside	3968.00	
Perforations	15.00			3983.00	
Change Over Sub	1.00			3984.00	
Drill Pipe	32.00			4016.00	
Change Over Sub	1.00			4017.00	
Bullnose	3.00			4020.00	53.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62260

DST#: 2

ATTN: Rocky Milford

Test Start: 2015.03.21 @ 22:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	GMCO 40%g,30%o,30%m	0.910
321.00	GO 68%o, 32%m	3.924
0.00	1008' GIP	0.000

Total Length: 506.00 ft Total Volume: 4.834 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

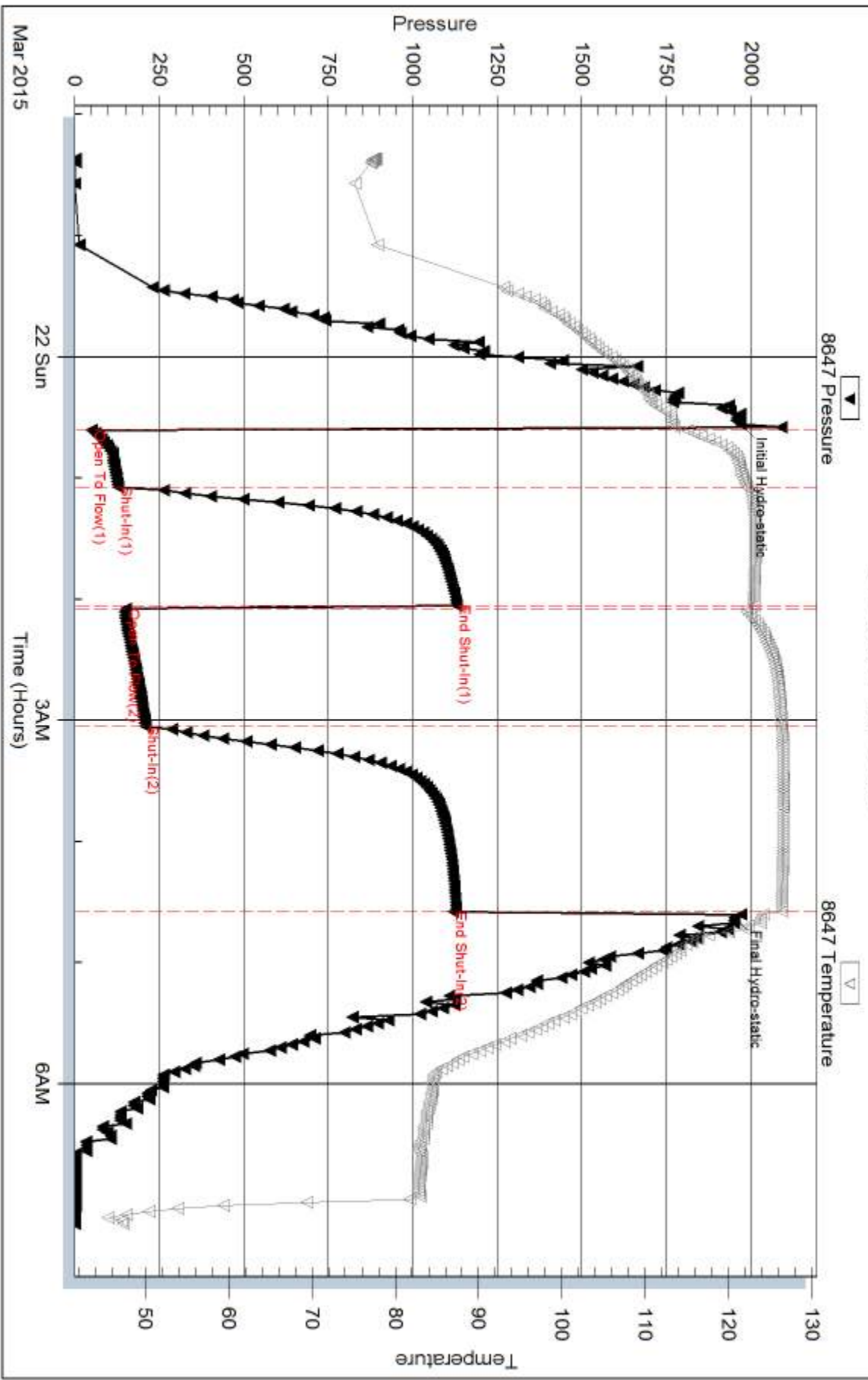
Serial #:

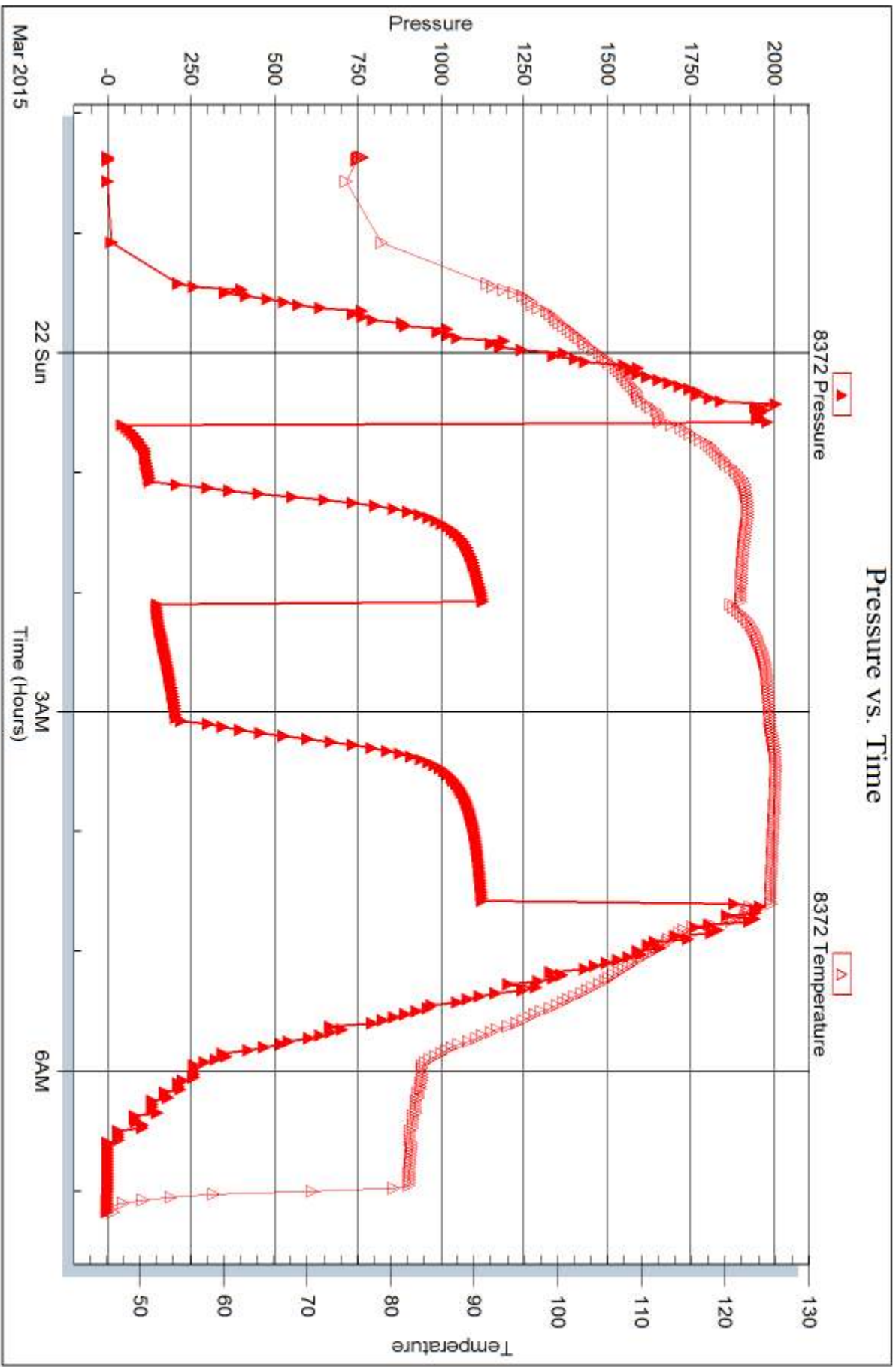
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 38 @ 58F Corrected = 38

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Rocky Milford

Schmidt-Vap #3-26

26-4s-31w Rawlins,KS

Start Date: 2015.03.22 @ 16:34:00

End Date: 2015.03.23 @ 01:12:30

Job Ticket #: 62261 DST #: 3

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

Printed: 2015.03.25 @ 09:38:04

Murfin Drlg. Co., Inc.
26-4s-31w Rawlins,KS
Schmidt-Vap #3-26
DST # 3
LKC "H.J."
2015.03.22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins, KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62261

DST#: 3

ATTN: Rocky Milford

Test Start: 2015.03.22 @ 16:34:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:19:30

Time Test Ended: 01:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 4016.00 ft (KB) To 4085.00 ft (KB) (TVD)

Reference Elevations: 2899.00 ft (KB)

Total Depth: 4085.00 ft (KB) (TVD)

2894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 200.13 psig @ 4017.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.22

End Date:

2015.03.23

Last Calib.:

2015.03.23

Start Time: 16:34:01

End Time:

01:12:30

Time On Btm:

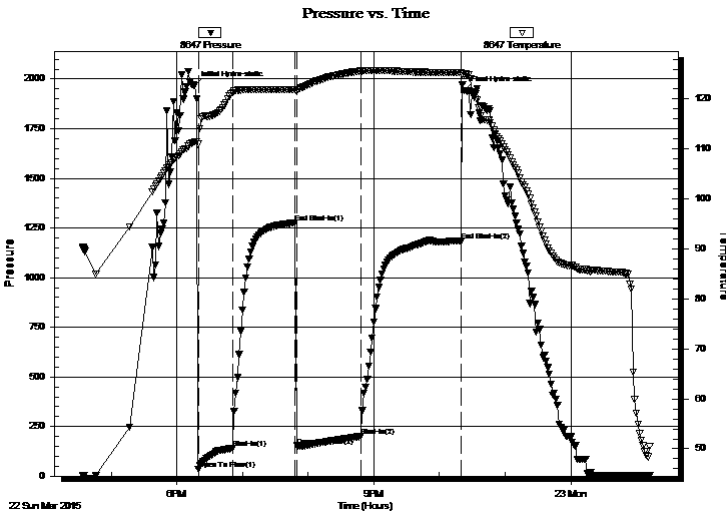
2015.03.22 @ 18:16:30

Time Off Btm:

2015.03.22 @ 22:22:30

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 12 min.
60 - ISI - Return built to 4 1/4"
60 - FF - Blow built to B.o.B in 15 min.
90 - FSI - Return built to 7"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1967.69	111.42	Initial Hydro-static
3	34.82	110.93	Open To Flow (1)
35	140.08	121.33	Shut-In(1)
92	1275.52	121.87	End Shut-In(1)
93	152.80	121.54	Open To Flow (2)
152	200.13	125.60	Shut-In(2)
243	1183.28	125.24	End Shut-In(2)
246	1940.77	125.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
294.00	WGOCM 42% _m , 20% _g , 20% _w , 18% _o	1.86
139.00	GO 80% _o , 20% _g	1.95
0.00	378' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

26-4s-31w Rawlins, KS

Schmidt-Vap #3-26

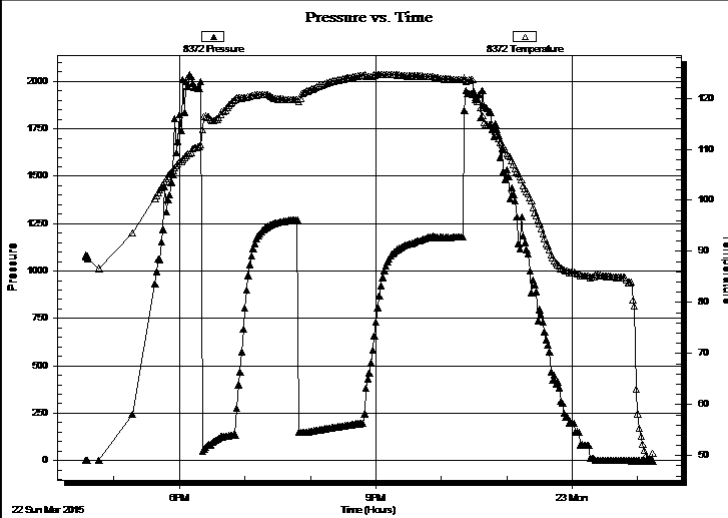
Job Ticket: 62261 **DST#: 3**
 Test Start: 2015.03.22 @ 16:34:00

GENERAL INFORMATION:

Formation: **LKC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:19:30
 Time Test Ended: 01:12:30
 Interval: **4016.00 ft (KB) To 4085.00 ft (KB) (TVD)**
 Total Depth: 4085.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Quintana
 Unit No: 57
 Reference Elevations: 2899.00 ft (KB)
 2894.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8372 Outside
 Press@RunDepth: psig @ 4017.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.03.22 End Date: 2015.03.23 Last Calib.: 2015.03.23
 Start Time: 16:34:01 End Time: 01:14:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to B.o.B in 12 min.
 60 - ISI - Return built to 4 1/4"
 60 - FF - Blow built to B.o.B in 15 min.
 90 - FSI - Return built to 7"



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

Recovery		
Length (ft)	Description	Volume (bbl)
294.00	WGOCM 42% m, 20% g, 20% w, 18% o	1.86
139.00	GO 80% o, 20% g	1.95
0.00	378' GIP	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62261

DST#: 3

ATTN: Rocky Milford

Test Start: 2015.03.22 @ 16:34:00

Tool Information

Drill Pipe:	Length: 3770.00 ft	Diameter: 3.80 inches	Volume: 52.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.50 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.50 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4016.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	97.00 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			3993.00	
Hydraulic tool	5.00			3998.00	
Jars	5.00			4003.00	
Safety Joint	3.00			4006.00	
Packer	5.00			4011.00	28.00 Bottom Of Top Packer
Packer	5.00			4016.00	
Stubb	1.00			4017.00	
Recorder	0.00	8647	Inside	4017.00	
Recorder	0.00	8372	Outside	4017.00	
Perforations	31.00			4048.00	
Change Over Sub	1.00			4049.00	
Drill Pipe	32.00			4081.00	
Change Over Sub	1.00			4082.00	
Bullnose	3.00			4085.00	69.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62261

DST#: 3

ATTN: Rocky Milford

Test Start: 2015.03.22 @ 16:34:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 5.99 in³
Resistivity: ohm.m
Salinity: 1500.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 35 deg API
Water Salinity: 60000 ppm

Recovery Information

Recovery Table

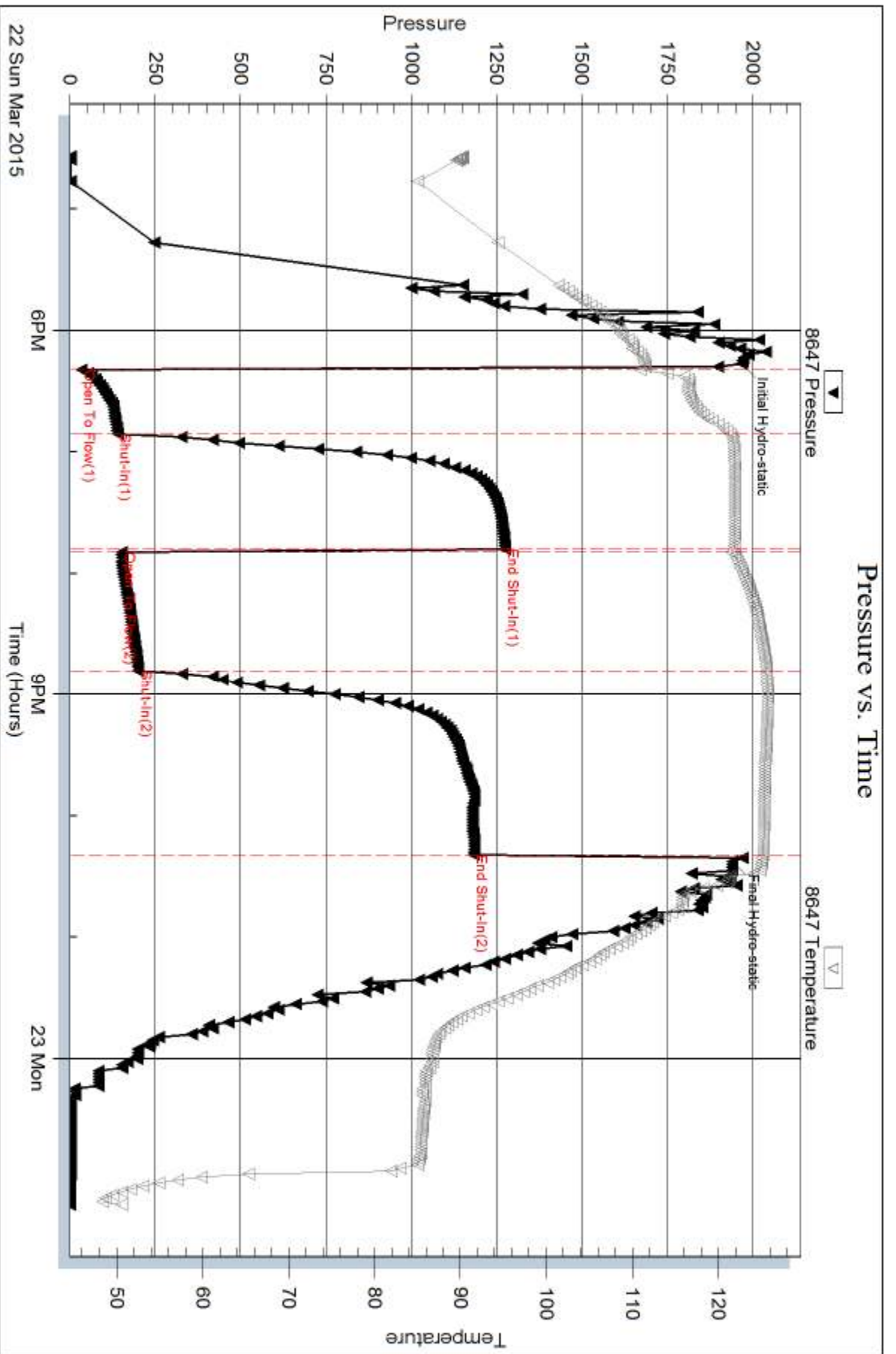
Length ft	Description	Volume bbl
294.00	WGOCM 42%m, 20%g, 20%w , 18%o	1.860
139.00	GO 80%o, 20%g	1.950
0.00	378' GIP	0.000

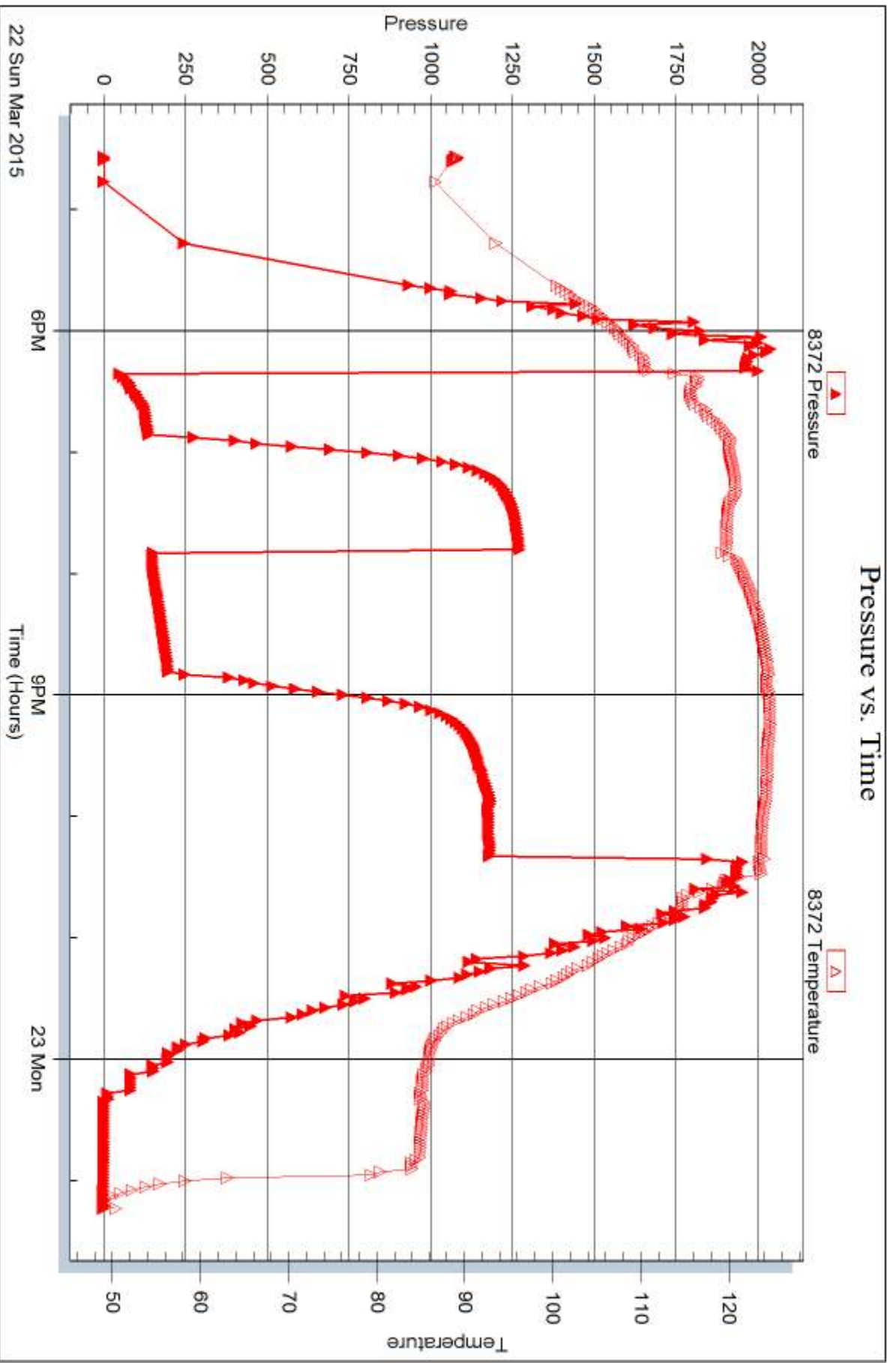
Total Length: 433.00 ft Total Volume: 3.810 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .195 @ 46F Chlorides 60,000ppm
Gravity 34 @ 70F Corrected = 35







DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Rocky Milford

Schmidt-Vap #3-26

26-4s-31w Rawlins,KS

Start Date: 2015.03.23 @ 11:00:00

End Date: 2015.03.23 @ 18:03:30

Job Ticket #: 62262 DST #: 4

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

Printed: 2015.03.25 @ 09:37:40

Murfin Drlg. Co., Inc.
26-4s-31w Rawlins,KS
Schmidt-Vap #3-26
DST # 4
LKC "K-L"
2015.03.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62262

DST#: 4

ATTN: Rocky Milford

Test Start: 2015.03.23 @ 11:00:00

GENERAL INFORMATION:

Formation: **LKC "K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:19:30

Time Test Ended: 18:03:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 4081.00 ft (KB) To 4139.00 ft (KB) (TVD)

Reference Elevations: 2899.00 ft (KB)

Total Depth: 4139.00 ft (KB) (TVD)

2894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 24.32 psig @ 4082.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.23

End Date:

2015.03.23

Last Calib.:

2015.03.23

Start Time: 11:00:01

End Time:

18:03:30

Time On Btm:

2015.03.23 @ 13:17:30

Time Off Btm:

2015.03.23 @ 16:22:30

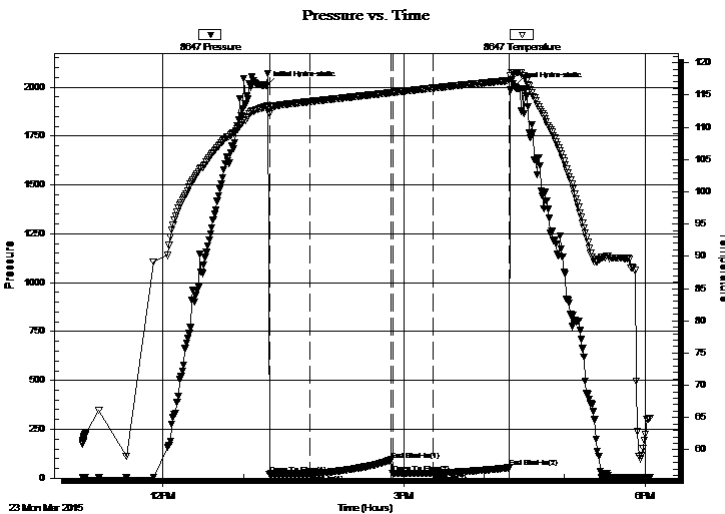
TEST COMMENT: 30 - IF - Opened w/ surface blow , built to 1/4"

60 - ISI - No Return

30 - FF - No Blow

60 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2008.35	113.26	Initial Hydro-static
2	17.94	112.14	Open To Flow (1)
32	21.65	113.96	Shut-In(1)
93	93.41	115.35	End Shut-In(1)
94	23.03	115.37	Open To Flow (2)
124	24.32	116.07	Shut-In(2)
181	52.91	117.25	End Shut-In(2)
185	2002.29	118.50	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	100% mud	0.02

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins, KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62262

DST#: 4

ATTN: Rocky Milford

Test Start: 2015.03.23 @ 11:00:00

GENERAL INFORMATION:

Formation: **LKC "K-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:19:30

Time Test Ended: 18:03:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: 4081.00 ft (KB) To 4139.00 ft (KB) (TVD)

Reference Elevations: 2899.00 ft (KB)

Total Depth: 4139.00 ft (KB) (TVD)

2894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press@RunDepth: psig @ 4082.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.23

End Date:

2015.03.23

Last Calib.:

2015.03.23

Start Time: 11:00:01

End Time:

18:04:30

Time On Btm:

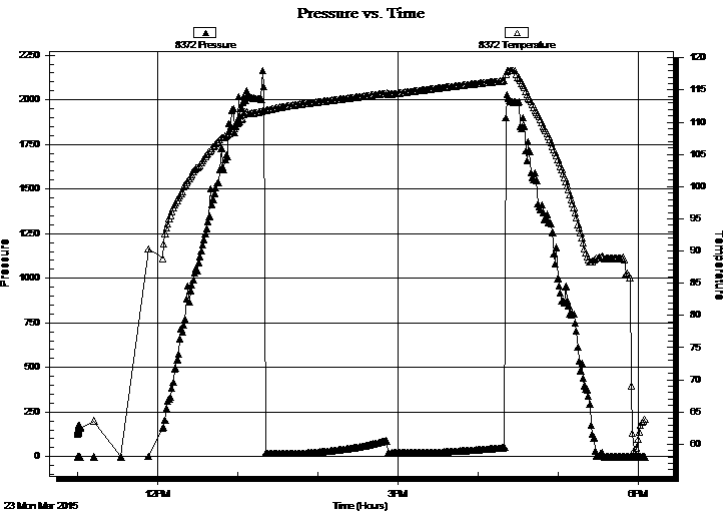
Time Off Btm:

TEST COMMENT: 30 - IF - Opened w/ surface blow , built to 1/4"

60 - ISI - No Return

30 - FF - No Blow

60 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62262

DST#: 4

ATTN: Rocky Milford

Test Start: 2015.03.23 @ 11:00:00

Tool Information

Drill Pipe:	Length: 3834.00 ft	Diameter: 3.80 inches	Volume: 53.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.50 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.50 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4081.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.68 ft			
Tool Length:	86.68 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4058.00	
Hydraulic tool	5.00			4063.00	
Jars	5.00			4068.00	
Safety Joint	3.00			4071.00	
Packer	5.00			4076.00	28.00 Bottom Of Top Packer
Packer	5.00			4081.00	
Stubb	1.00			4082.00	
Recorder	0.00	8647	Inside	4082.00	
Recorder	0.00	8372	Outside	4082.00	
Perforations	21.00			4103.00	
Change Over Sub	1.00			4104.00	
Drill Pipe	31.68			4135.68	
Change Over Sub	1.00			4136.68	
Bullnose	3.00			4139.68	58.68 Bottom Packers & Anchor

Total Tool Length: 86.68



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62262

DST#: 4

ATTN: Rocky Milford

Test Start: 2015.03.23 @ 11:00:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

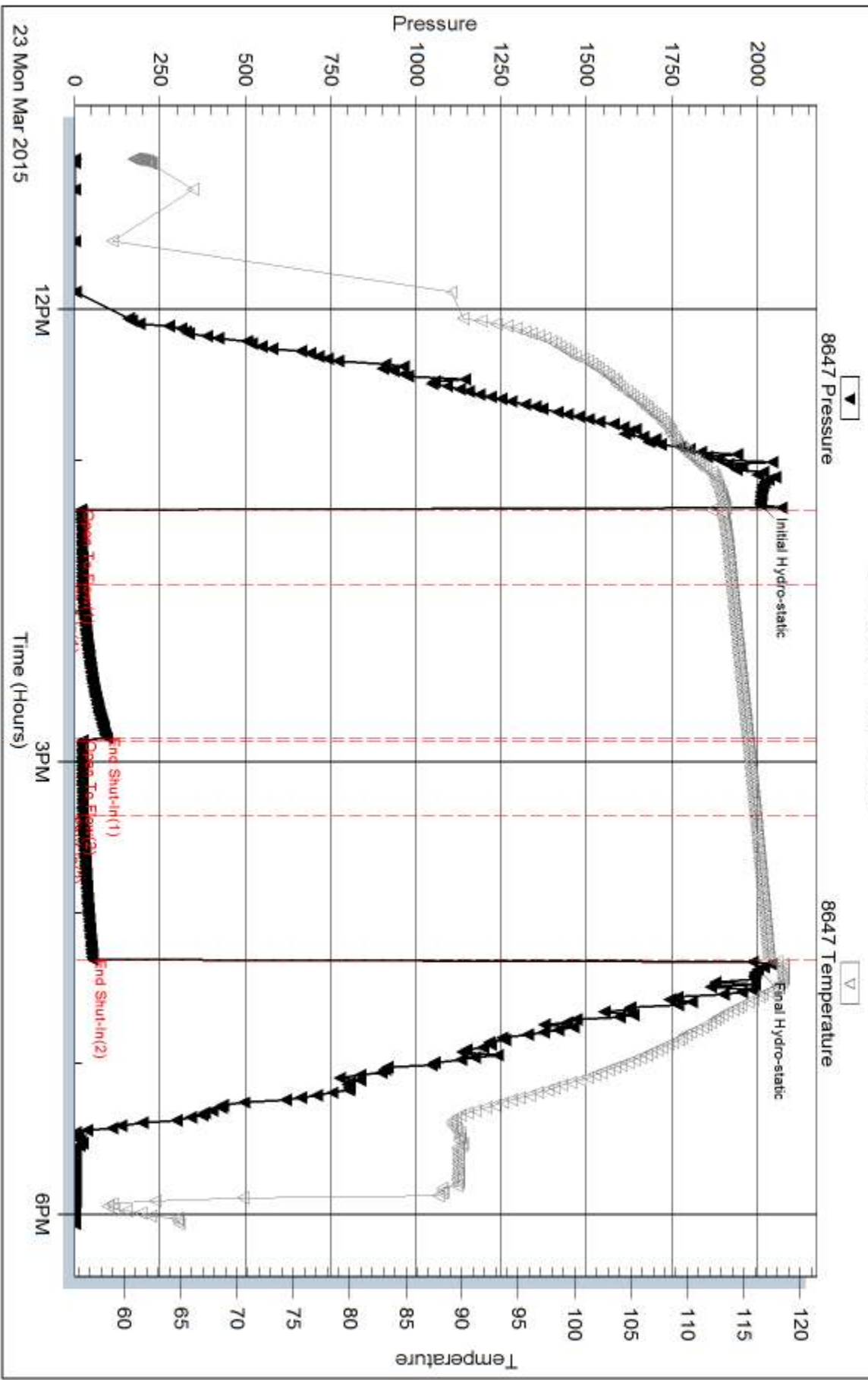
Serial #:

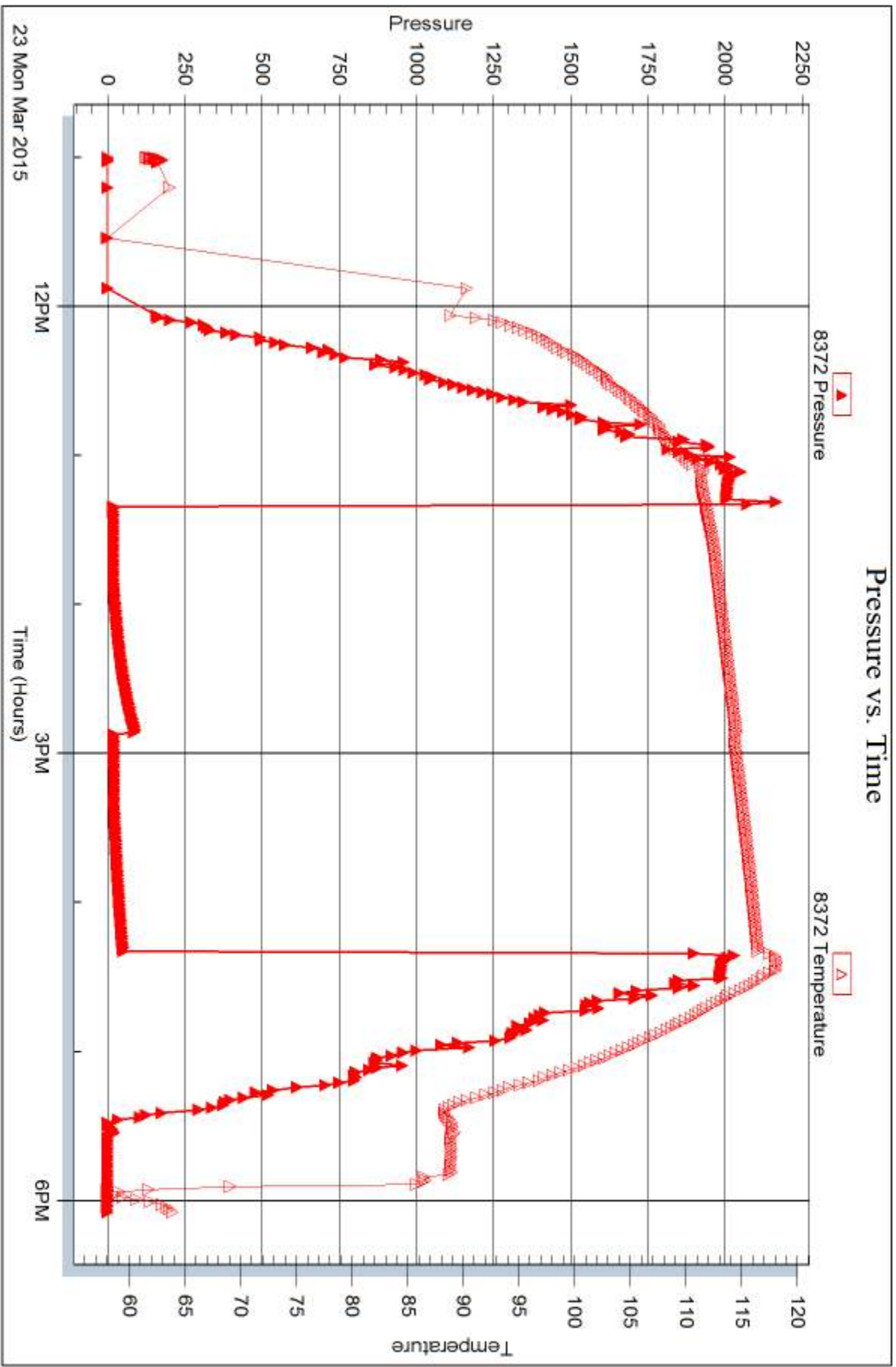
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N. Water, Ste 300
Wichita, KS 67202

ATTN: Rocky Milford

Schmidt-Vap #3-26

26-4s-31w Rawlins,KS

Start Date: 2015.03.24 @ 15:14:00

End Date: 2015.03.24 @ 21:52:30

Job Ticket #: 62263 DST #: 5

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

Printed: 2015.03.25 @ 09:35:44

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

Schmidt-Vap #3-26

DST # 5

Fl. Scott - Verdigr

2015.03.24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins, KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62263

DST#: 5

ATTN: Rocky Milford

Test Start: 2015.03.24 @ 15:14:00

GENERAL INFORMATION:

Formation: **Ft. Scott - Verdigri**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:10:30

Time Test Ended: 21:52:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Quintana

Unit No: 57

Interval: **4294.00 ft (KB) To 4364.00 ft (KB) (TVD)**

Reference Elevations: 2899.00 ft (KB)

Total Depth: 4364.00 ft (KB) (TVD)

2894.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8647

Inside

Press@RunDepth: 33.20 psig @ 4295.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.24

End Date:

2015.03.24

Last Calib.:

2015.03.24

Start Time: 15:14:01

End Time:

21:52:30

Time On Btm:

2015.03.24 @ 17:08:30

Time Off Btm:

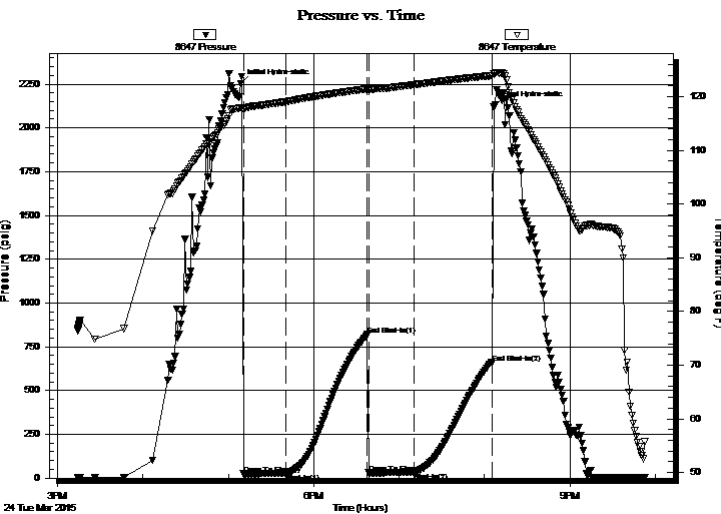
2015.03.24 @ 20:07:30

TEST COMMENT: 30- IF - Opened w / surface blow , built to 1/2"

60 - ISI - No Return

30 - FF - No Blow

60 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2254.86	117.96	Initial Hydro-static
2	23.41	117.61	Open To Flow (1)
32	27.44	119.08	Shut-In(1)
89	819.32	121.47	End Shut-In(1)
90	29.43	121.26	Open To Flow (2)
122	33.20	122.23	Shut-In(2)
177	657.55	123.95	End Shut-In(2)
179	2129.27	124.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud w / oil on top	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62263

DST#: 5

ATTN: Rocky Milford

Test Start: 2015.03.24 @ 15:14:00

Tool Information

Drill Pipe:	Length: 4023.00 ft	Diameter: 3.80 inches	Volume: 56.43 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.50 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.50 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4294.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4271.00	
Hydraulic tool	5.00			4276.00	
Jars	5.00			4281.00	
Safety Joint	3.00			4284.00	
Packer	5.00			4289.00	28.00 Bottom Of Top Packer
Packer	5.00			4294.00	
Stubb	1.00			4295.00	
Recorder	0.00	8647	Inside	4295.00	
Recorder	0.00	8372	Outside	4295.00	
Perforations	32.00			4327.00	
Change Over Sub	1.00			4328.00	
Drill Pipe	32.00			4360.00	
Change Over Sub	1.00			4361.00	
Bullnose	3.00			4364.00	70.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg. Co., Inc.

26-4s-31w Rawlins,KS

250 N. Water, Ste 300
Wichita, KS 67202

Schmidt-Vap #3-26

Job Ticket: 62263

DST#: 5

ATTN: Rocky Milford

Test Start: 2015.03.24 @ 15:14:00

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: 74.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	100% mud w / oil on top	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

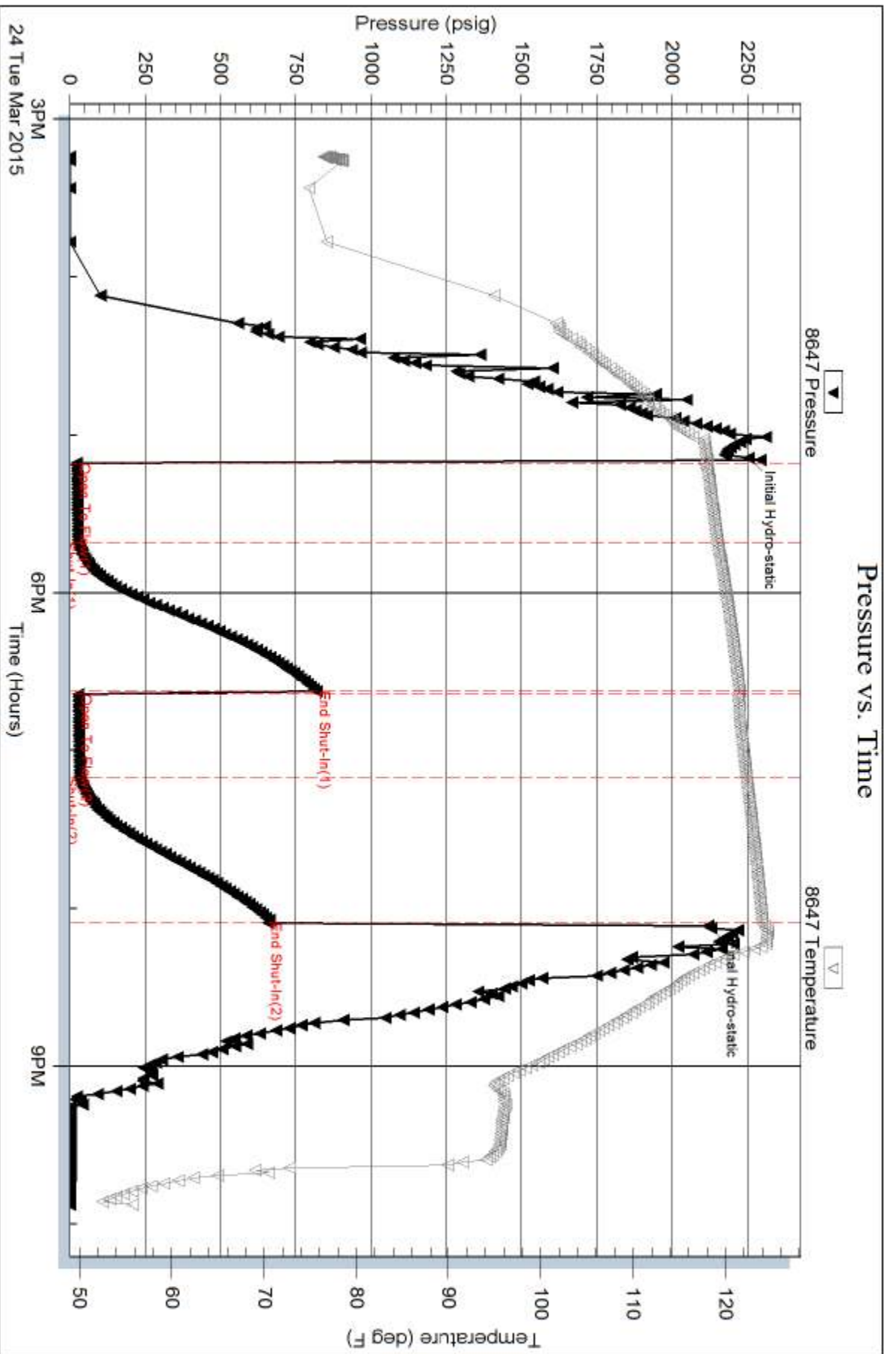
Num Gas Bombs: 0

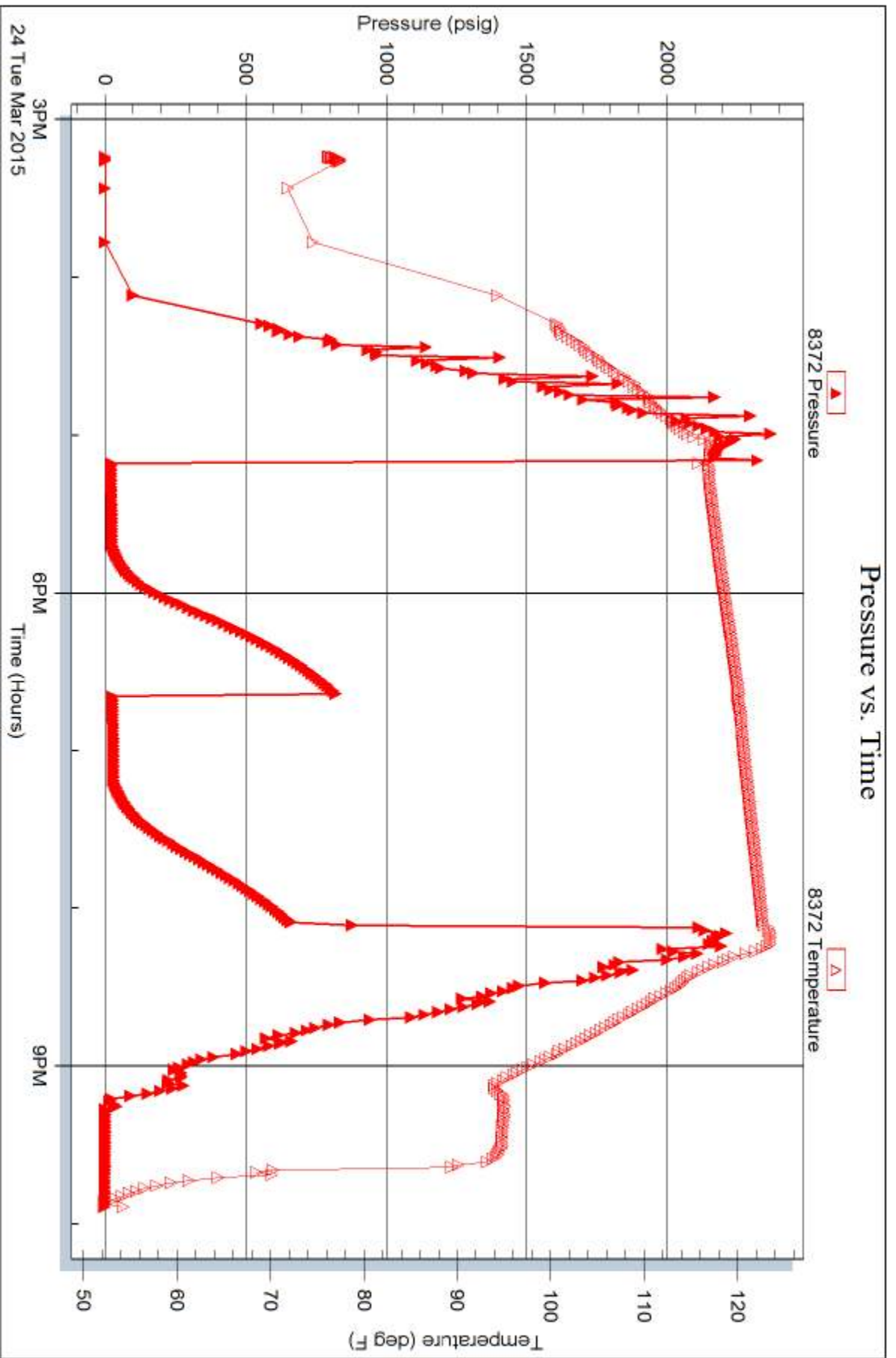
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62259

Well Name & No. Schmidt-Vap #3-26 Test No. 1 Date 3-21-15
 Company Murfin Drly. Co., Inc. Elevation 2899 KB 2894 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #7
 Location: Sec. 26 Twp. 4s Rge. 31w Co. Rawlins State KS

Interval Tested 3865-3953 Zone Tested Toronto-LKC "B"
 Anchor Length 88' Drill Pipe Run 3612 Mud Wt. 8.8
 Top Packer Depth 3860 Drill Collars Run ~~186.6~~ 248.5 Vis 59
 Bottom Packer Depth 3865 Wt. Pipe Run — WL 6.8
 Total Depth 3953 Chlorides 1500 ppm System LCM 5
 Blow Description IF- Opened w/ surface blow, built to B.o.B in 3 1/2 min.
ISI- Return built to B.o.B in 28 min.
FF- Blw built to B.o.B in 3 1/2 min.
PSI- Return built to B.o.B in 26 1/2 min.

Rec	Feet of	%gas	%oil	%water	%mud
1124	GO	30	70		
258	MCO GO		60		40
1116	GIP	100			
Rec Total	1382	BHT	123	Gravity	30

API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	1909	<input checked="" type="checkbox"/> Test	1050	T-On Location	1:03 AM
(B) First Initial Flow	95	<input checked="" type="checkbox"/> Jars	250	T-Started	1:42 AM
(C) First Final Flow	345	<input checked="" type="checkbox"/> Safety Joint	75	T-Open	4:00 AM
(D) Initial Shut-In	1286	<input checked="" type="checkbox"/> Circ Sub	x1 50	T-Pulled	7:00 AM
(E) Second Initial Flow	366	<input checked="" type="checkbox"/> Hourly Standby	K1 80	T-Out	11:58 AM
(F) Second Final Flow	530	<input checked="" type="checkbox"/> Mileage	50 R.T 54	Comments	
(G) Final Shut-In	1277	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	1869	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	
Initial Open	30	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	60	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	30	<input type="checkbox"/> Extra Recorder		Sub Total	0
Final Shut-In	60	<input type="checkbox"/> Day Standby		Total	1559
		<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	1559		

Approved By _____

Our Representative Burd Q. L.

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. **62260**

4/10

Well Name & No. Schmidt-Vap #3-26 Test No. 2 Date 3-27-15
 Company Murfin Prlg. Co., Inc Elevation 2899 KB 2894 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #7
 Location: Sec. 26 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 3967-4020 Zone Tested LKC "E"-G"
 Anchor Length 53' Drill Pipe Run 3707 Mud Wt. 9
 Top Packer Depth 3962 Drill Collars Run 248.5 Vis 46
 Bottom Packer Depth 3967 Wt. Pipe Run — WL 6.8
 Total Depth 4020 Chlorides 1500 ppm System LCM 4
 Blow Description IF - Opened w/ surface blow. built to B.o.B in 6 min.
ISI - Return built to 9", died back to 6"
FF - Blow built to B.o.B in 13 min.
FSI - Return built to 2", died back to nothing

Rec	Feet of	%gas	%oil	%water	%mud
<u>321</u>	<u>60</u>	<u>32</u>	<u>68</u>		
<u>185</u>	<u>GMCO</u>	<u>40</u>	<u>30</u>		<u>30</u>
<u>1008</u>	<u>GIP</u>	<u>100</u>			

Rec Total 506 BHT 126 Gravity 38 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1968 Test 1150 T-On Location 10:17 PM
 (B) First Initial Flow 50 Jars 250 T-Started 10:22 PM
 (C) First Final Flow 129 Safety Joint 75 T-Open 12:36 AM
 (D) Initial Shut-In 1129 Circ Sub — T-Pulled 4:36 AM
 (E) Second Initial Flow 152 Hourly Standby — T-Out 7:13 AM
 (F) Second Final Flow 208 Mileage 50 R.T. 54 Comments —
 (G) Final Shut-In 1119 Sampler —
 (H) Final Hydrostatic 1951 Straddle —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —
 Sub Total 0
 Total 1529
 MP/DST Disc't —

Initial Open 30
 Initial Shut-In 66
 Final Flow 60
 Final Shut-In 90
 Sub Total 1529

Approved By _____ Our Representative Burd O'k

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. 62261

Well Name & No. Schmidt - Vap #3-26 Test No. 3 Date 3-22-15
 Company Murfin Drlg. Co., Inc. Elevation 2899 KB 2894 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #7
 Location: Sec. 26 Twp. 4S Rge. 3W Co. Rawlins State KS

Interval Tested 4016 - 4085 Zone Tested LKC "H-3"
 Anchor Length 69 Drill Pipe Run 3770 Mud Wt. 9.1
 Top Packer Depth 4011 Drill Collars Run 248.5 Vis 60
 Bottom Packer Depth 4016 Wt. Pipe Run — WL 6
 Total Depth 4085 Chlorides 1500 ppm System LCM 4
 Blow Description IF - Opened w/ surface blow, built to B.O.B in 12 min
ISI - Return built to 4 1/4"
FF - Blow built to B.O.B in 18 min.
FSI - Return built to 7"

Rec	Feet of	%gas	%oil	%water	%mud
139	60	20	80		
294	W60CM	20	18	20	42
378	GIP	100			

Rec Total 433 BHT 125 Gravity 35 API RW .145 @ 46 °F Chlorides 60,000 ppm
 (A) Initial Hydrostatic 1967 Test 1150 T-On Location 4:20 PM
 (B) First Initial Flow 34 Jars 250 T-Started 4:34 PM
 (C) First Final Flow 140 Safety Joint 75 T-Open 6:20 PM
 (D) Initial Shut-In 1275 Circ Sub _____ T-Pulled 10:20 PM
 (E) Second Initial Flow 152 Hourly Standby _____ T-Out 1:15 AM
 (F) Second Final Flow 200 Mileage 50 R.T. 54 Comments _____
 (G) Final Shut-In 1183 Sampler _____
 (H) Final Hydrostatic 1940 Straddle _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 60 Extra Packer _____
 Final Flow 60 Extra Recorder _____
 Final Shut-In 90 Day Standby _____
 Accessibility _____
 Sub Total 1529 Total 1529
 MP/DST Disc't _____

Approved By _____ Our Representative Bud Ot

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. 62262

Well Name & No. Schmidt - Vap #3-26 Test No. 4 Date 3-23-15
 Company Murfin Drlg. Co., Inc. Elevation 2899 KB 2894 GL
 Address 250 N. Water, Ste 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #7
 Location: Sec. 26 Twp. 4S Rge. 31w Co. Rawlins State KS

Interval Tested 4081 - 4139 Zone Tested LKC "K-L"
 Anchor Length 58' Drill Pipe Run 3834 Mud Wt. 9.2
 Top Packer Depth 4076 Drill Collars Run 248.5 Vis 65
 Bottom Packer Depth 4081 Wt. Pipe Run — WL 5.6
 Total Depth 4139 Chlorides 2.000 ppm System LCM 5
 Blow Description IF - Opened w/ surface blow, built to 1/4"
ISI - No Return
FF - No Blow
FSI - No Return

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

Rec Total 5 BHT 117 Gravity 1150 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2058 Test 1150 T-On Location 10:46 AM
 (B) First Initial Flow 17 Jars 250 T-Started 11:00 AM
 (C) First Final Flow 21 Safety Joint 75 T-Open 1:20 PM
 (D) Initial Shut-In 93 Circ Sub — T-Pulled 4:20 PM
 (E) Second Initial Flow 23 Hourly Standby — T-Out 6:05 PM
 (F) Second Final Flow 24 Mileage 50 R.T. 54 Comments —
 (G) Final Shut-In 52 Sampler —
 (H) Final Hydrostatic 2002 Straddle —
 Shale Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1529

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

MP/DST Disc't —

Approved By _____ Our Representative Burdette
 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. **62263**

Well Name & No. Schmidt-Vap #3-26 Test No. 5 Date 3-24-15
 Company Murfin Drly. Co., Inc. Elevation 2899 KB 2894 GL
 Address 250 N. Water, STE 300 Wichita, KS 67202
 Co. Rep / Geo. Rocky Milford Rig Murfin #7
 Location: Sec. 26 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 4294-4364 Zone Tested Ft. Scott - Verdigris
 Anchor Length 70' Drill Pipe Run 4023 Mud Wt. 9.2
 Top Packer Depth 4289 Drill Collars Run 248.5 Vis 74
 Bottom Packer Depth 4294 Wt. Pipe Run — WL 6.4
 Total Depth 4364 Chlorides 1900 ppm System LCM 4
 Blow Description IF - Opened w/ surface blow. built to 1/2"
ISI - No Return
FF - No Blow
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/ oil on top</u>			<u>100</u>	

Rec Total 10 BHT 123 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2254 Test 1150 T-On Location 3:00 PM
 (B) First Initial Flow 23 Jars 250 T-Started 3:14 PM
 (C) First Final Flow 27 Safety Joint 75 T-Open 5:10 PM
 (D) Initial Shut-In 819 Circ Sub _____ T-Pulled 8:10 PM
 (E) Second Initial Flow 29 Hourly Standby _____ T-Out 9:54 PM
 (F) Second Final Flow 33 Mileage 50 R.T. 54 Comments Picked up tool
 (G) Final Shut-In 657 Sampler _____ after test.
 (H) Final Hydrostatic 2129 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1529
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1529

Approved By _____ Our Representative Bud Oit

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