



DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Jeff Christian

Earl #1-6

6-5s-30w Decatur KS

Start Date: 2013.08.10 @ 11:43:00

End Date: 2013.08.10 @ 19:56:30

Job Ticket #: 52655 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.15 @ 11:00:16

Murfin Drilling Co., Inc.

6-5s-30w Decatur KS

Earl #1-6

DST # 1

Toronto - LKC "A & B

2013.08.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52655

DST#: 1

ATTN: Jeff Christian

Test Start: 2013.08.10 @ 11:43:00

Tool Information

Drill Pipe:	Length: 3601.00 ft	Diameter: 3.80 inches	Volume: 50.51 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: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3840.00 ft			Final 70000.00 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: 2" blow in 2 min., found loose hammer union, tightened at 18 min., 3" blow at 18 min., built to 8 3/4" at 30 min.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3817.00	
Hydraulic tool	5.00			3822.00	
Jars	5.00			3827.00	
Safety Joint	3.00			3830.00	
Packer	5.00			3835.00	28.00 Bottom Of Top Packer
Packer	5.00			3840.00	
Stubb	1.00			3841.00	
Recorder	0.00	8671	Inside	3841.00	
Recorder	0.00	8320	Outside	3841.00	
Perforations	18.00			3859.00	
Blank Spacing	64.00			3923.00	
Perforations	2.00			3925.00	
Bullnose	3.00			3928.00	88.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52655

DST#: 1

ATTN: Jeff Christian

Test Start: 2013.08.10 @ 11:43:00

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:

17500 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.36 in³

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
233.00	MCW w/trace oil 81%w , 19%m	1.146
62.00	SO/MW 53%w , 40%m, 5%g, 2%o	0.870
185.00	SO/WCM 68%m, 28%w , 3%o, 1%g	2.595
30.00	SOCM 98%m, 2%o	0.421

Total Length: 510.00 ft Total Volume: 5.032 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .348 ohms @ 78.0 deg F

Serial #: 8671

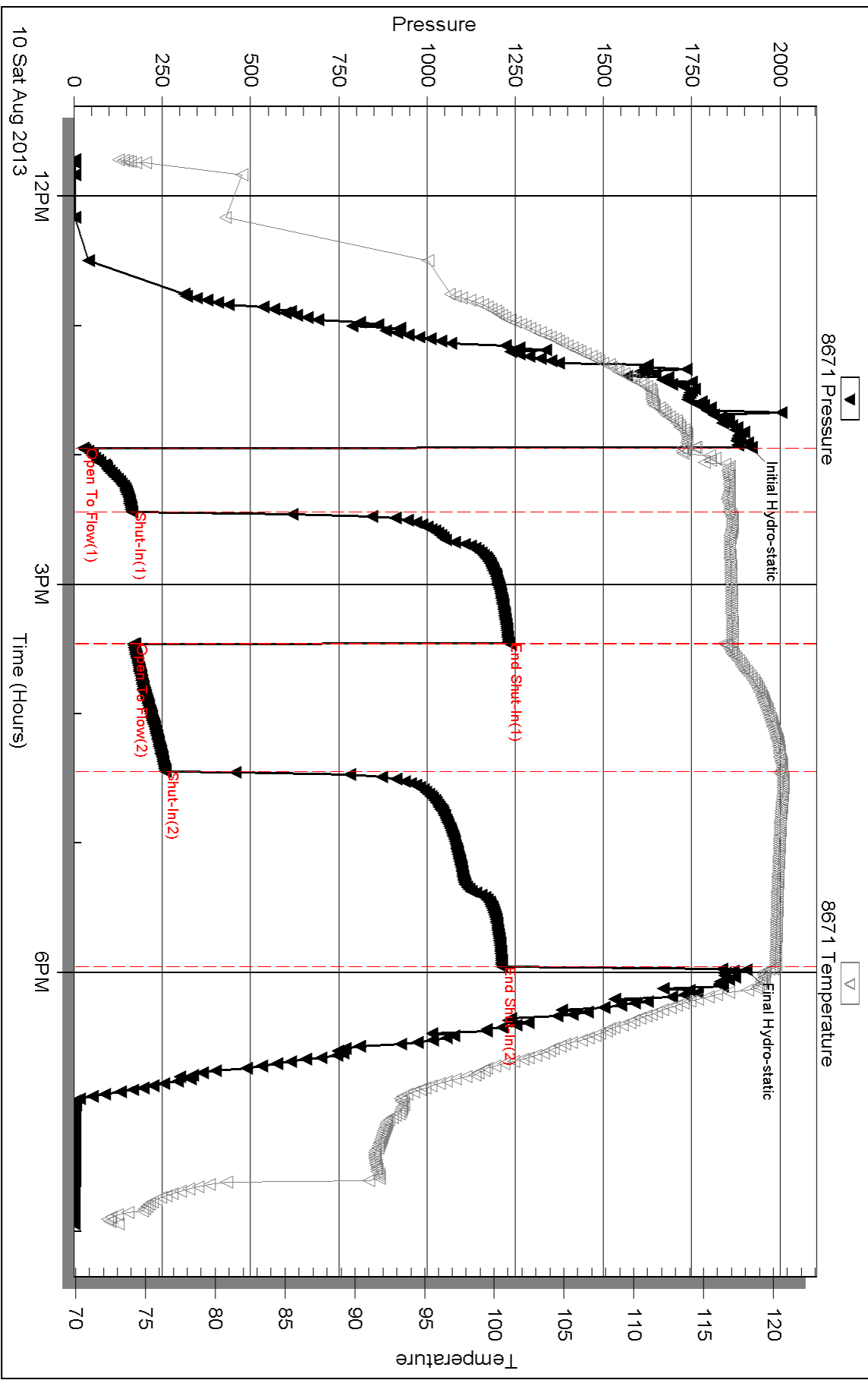
Inside

Murfin Drilling Co., Inc.

Earl #1-6

DST Test Number: 1

Pressure vs. Time

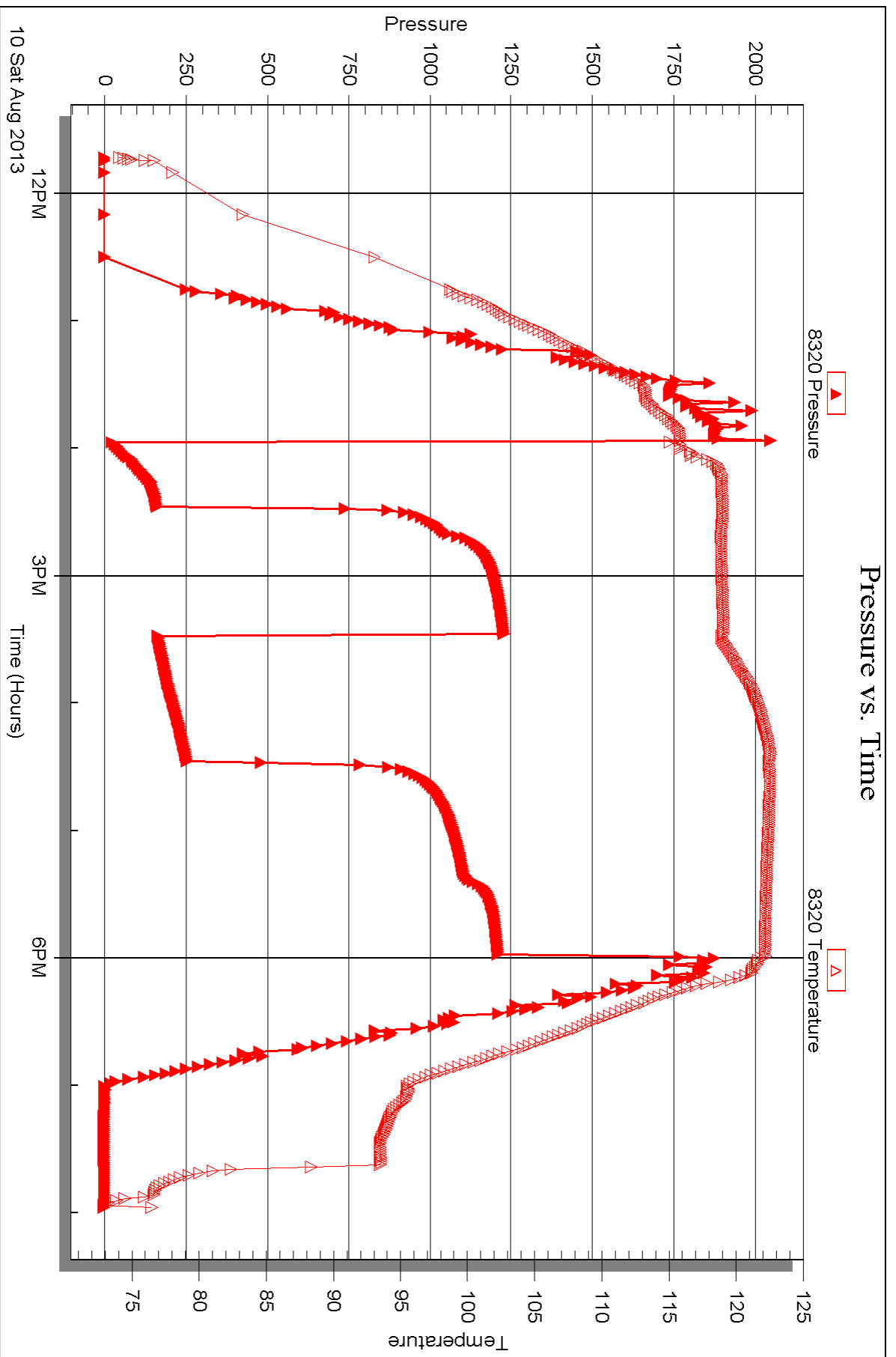


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Earl #1-6

DST Test Number: 1





DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Jeff Christian

Earl #1-6

6-5s-30w Decatur KS

Start Date: 2013.08.11 @ 05:41:00

End Date: 2013.08.11 @ 13:34:30

Job Ticket #: 52656 DST #: 2

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

Printed: 2013.08.15 @ 10:56:54

Murfin Drilling Co., Inc.
6-5s-30w Decatur KS
Earl #1-6
DST # 2
LKC "F"
2013.08.11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

6-5s-30w Decatur KS
Earl #1-6
 Job Ticket: 52656 **DST#: 2**
 Test Start: 2013.08.11 @ 05:41:00

GENERAL INFORMATION:

Formation: **LKC "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:44:30
 Time Test Ended: 13:34:30
 Interval: **3943.00 ft (KB) To 3970.00 ft (KB) (TVD)**
 Total Depth: 3970.00 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: 2853.00 ft (KB)
 2842.00 ft (CF)
 KB to GR/CF: 11.00 ft

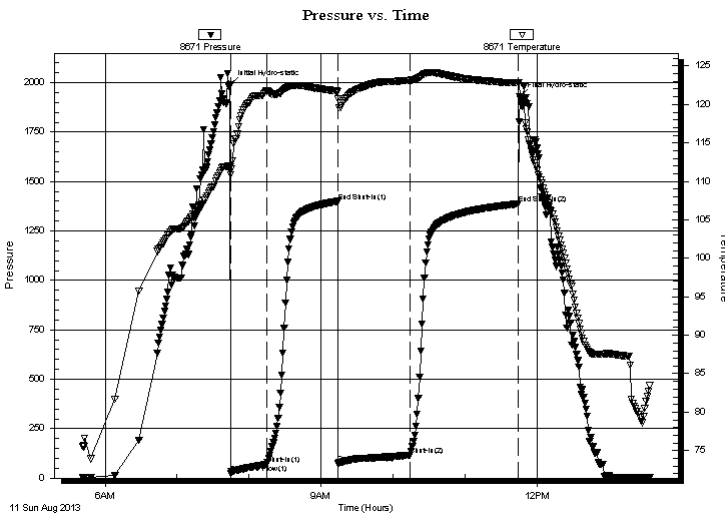
Serial #: 8671

Inside

Press @ Run Depth: 115.56 psig @ 3944.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.11 End Date: 2013.08.11 Last Calib.: 2013.08.11
 Start Time: 05:41:05 End Time: 13:34:29 Time On Btm: 2013.08.11 @ 07:44:15
 Time Off Btm: 2013.08.11 @ 11:46:00

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 19 1/2 min.
 60 - IS: Blow back built to 1/8"
 60 - FF: Blow built to BOB in 15 min.
 90 - FS: Blow back built to 1 3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1990.09	111.84	Initial Hydro-static
1	24.74	110.87	Open To Flow (1)
31	70.48	121.81	Shut-In(1)
90	1399.95	121.71	End Shut-In(1)
90	76.31	120.78	Open To Flow (2)
151	115.56	123.14	Shut-In(2)
241	1387.32	122.81	End Shut-In(2)
242	1930.36	120.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
117.00	GMCO 52%o, 32%m, 16%g	0.58
146.00	CGO 90%o, 8%g, 2%m	0.99
0.00	GIP = 410'	0.00

* Recovery from multiple tests

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: Jeff Christian

6-5s-30w Decatur KS
Earl #1-6
Job Ticket: 52656 **DST#: 2**
Test Start: 2013.08.11 @ 05:41:00

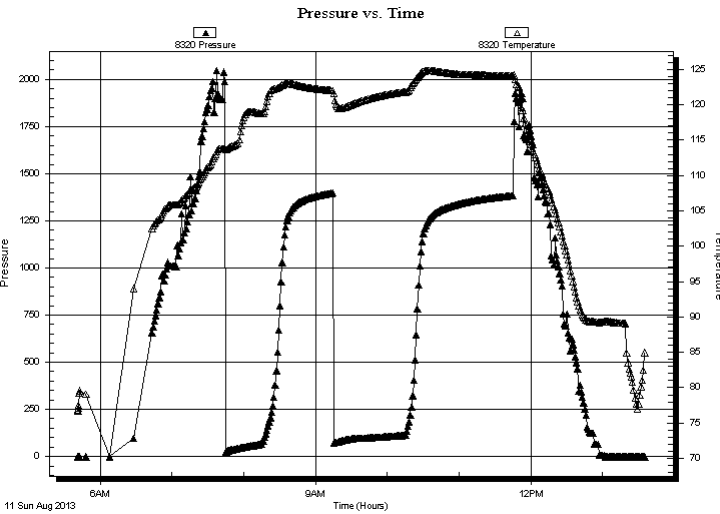
GENERAL INFORMATION:

Formation: **LKC "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:44:30
 Time Test Ended: 13:34:30
 Interval: **3943.00 ft (KB) To 3970.00 ft (KB) (TVD)**
 Total Depth: 3970.00 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: 2853.00 ft (KB)
 2842.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8320 Outside

Press@RunDepth: psig @ 3944.00 ft (KB)
 Start Date: 2013.08.11 End Date: 2013.08.11
 Start Time: 05:41:05 End Time: 13:35:14
 Capacity: 8000.00 psig
 Last Calib.: 2013.08.11
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 19 1/2 min.
 60 - IS: Blow back built to 1/8"
 60 - FF: Blow built to BOB in 15 min.
 90 - FS: Blow back built to 1 3/4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
117.00	GMCO 52%o, 32%m, 16%g	0.58
146.00	CGO 90%o, 8%g, 2%m	0.99
0.00	GIP = 410'	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.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52656

DST#: 2

ATTN: Jeff Christian

Test Start: 2013.08.11 @ 05:41:00

Tool Information

Drill Pipe:	Length: 3694.00 ft	Diameter: 3.80 inches	Volume: 51.82 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: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 52.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	3943.00 ft			Final	69000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	55.00 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			3920.00	
Hydraulic tool	5.00			3925.00	
Jars	5.00			3930.00	
Safety Joint	3.00			3933.00	
Packer	5.00			3938.00	28.00 Bottom Of Top Packer
Packer	5.00			3943.00	
Stubb	1.00			3944.00	
Recorder	0.00	8671	Inside	3944.00	
Recorder	0.00	8320	Outside	3944.00	
Perforations	23.00			3967.00	
Bullnose	3.00			3970.00	27.00 Bottom Packers & Anchor

Total Tool Length: 55.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52656

DST#: 2

ATTN: Jeff Christian

Test Start: 2013.08.11 @ 05:41:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 6.77 in³
Resistivity: ohm.m
Salinity: 1400.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 32.6 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
117.00	GMCO 52%o, 32%m, 16%g	0.575
146.00	CGO 90%o, 8%g, 2%m	0.991
0.00	GIP = 410'	0.000

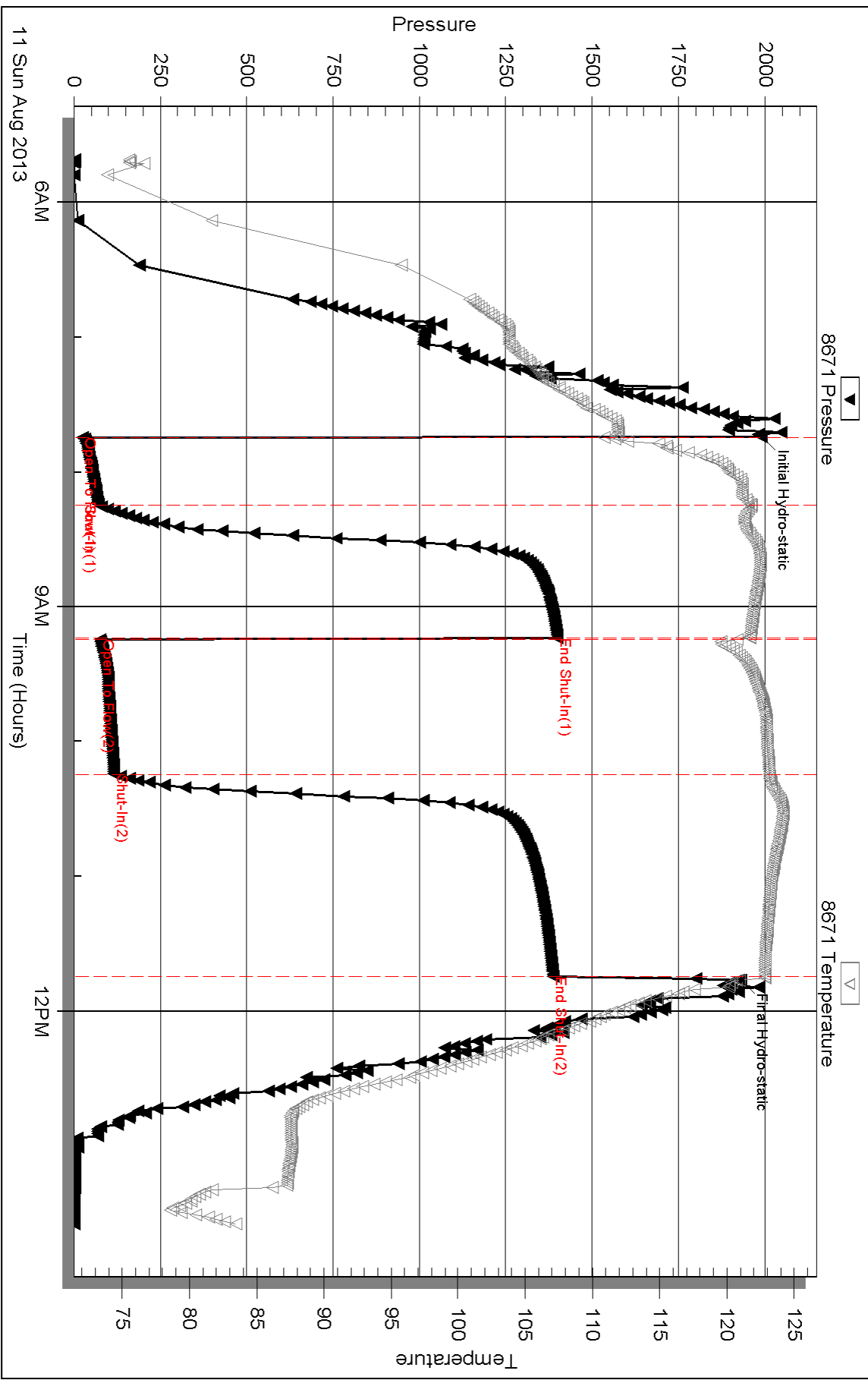
Total Length: 263.00 ft Total Volume: 1.566 bbl

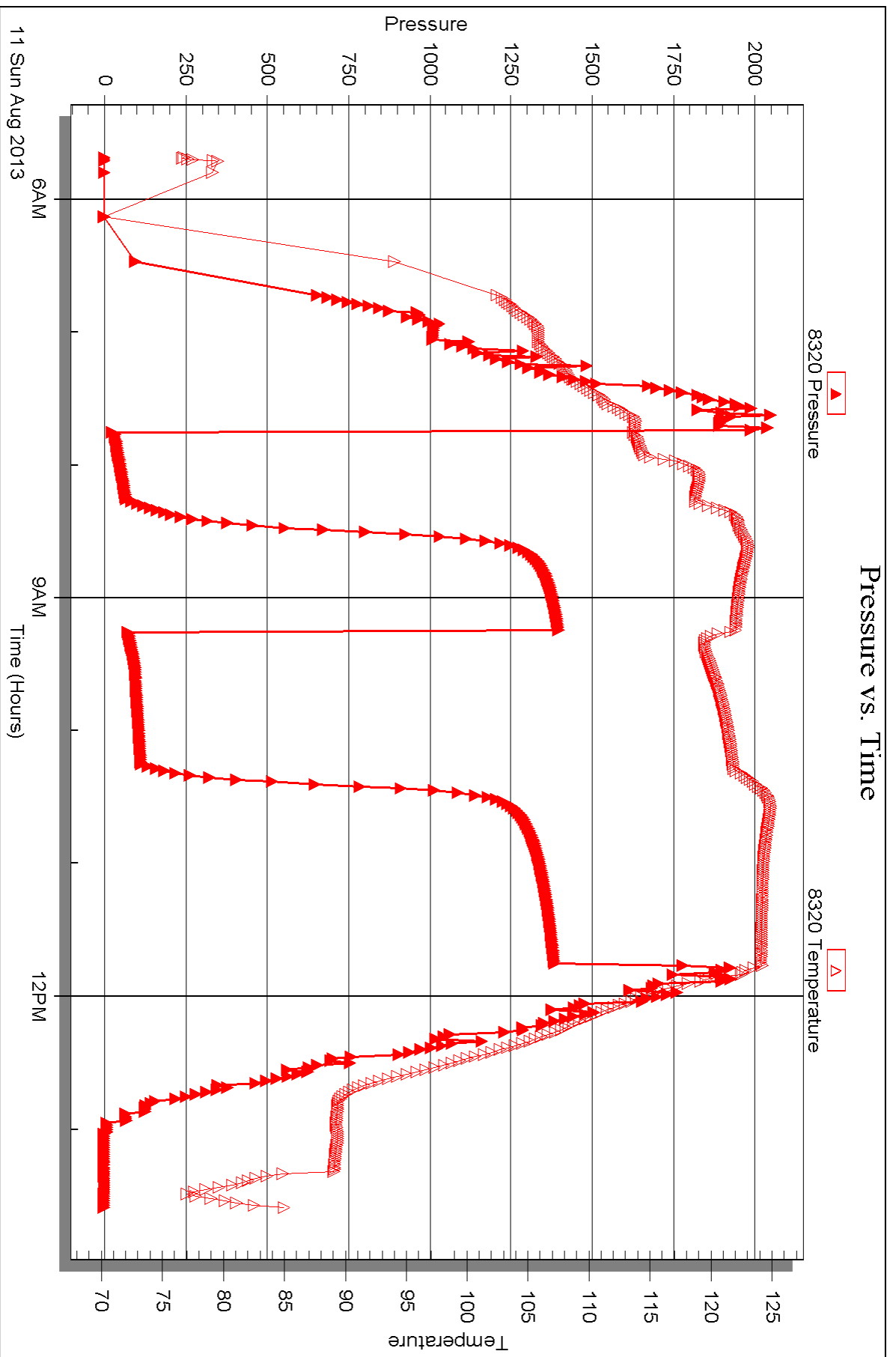
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 35.6 api @ 90 deg F
Corrected Gravity = 32.6 api

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Jeff Christian

Earl #1-6

6-5s-30w Decatur KS

Start Date: 2013.08.12 @ 02:03:00

End Date: 2013.08.12 @ 10:03:58

Job Ticket #: 52657 DST #: 3

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

Printed: 2013.08.15 @ 10:54:40



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

6-5s-30w Decatur KS
Earl #1-6
 Job Ticket: 52657 **DST#: 3**
 Test Start: 2013.08.12 @ 02:03:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 04:02:13 Tester: James Winder
 Time Test Ended: 10:03:58 Unit No: 57
Interval: 3989.00 ft (KB) To 4058.00 ft (KB) (TVD)
 Reference Elevations: 2853.00 ft (KB)
 Total Depth: 4058.00 ft (KB) (TVD) 2842.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

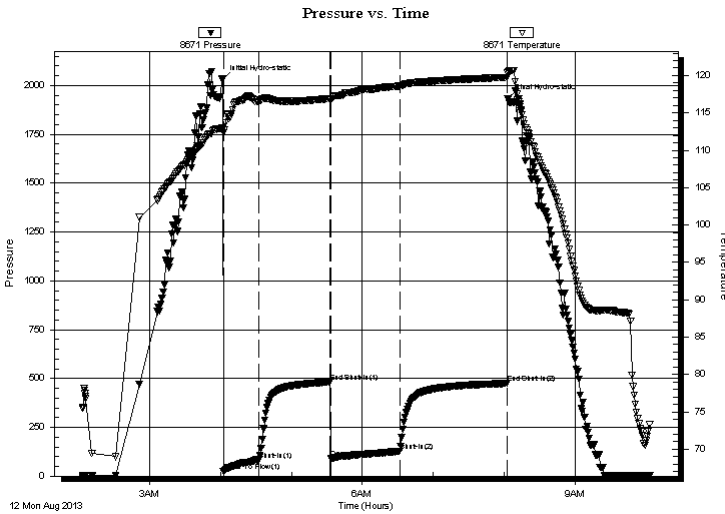
Serial #: 8671

Inside

Press @ Run Depth: 127.63 psig @ 3990.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.12 End Date: 2013.08.12 Last Calib.: 2013.08.12
 Start Time: 02:03:05 End Time: 10:03:58 Time On Btm: 2013.08.12 @ 04:01:43
 Time Off Btm: 2013.08.12 @ 08:02:58

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 19 1/2"
 60 - IS: Weak surface blow back
 60 - FF: Blow built to BOB in 14 min.
 90 - FS: Blow back built to 1"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2030.58	112.99	Initial Hydro-static
1	24.62	112.38	Open To Flow (1)
31	83.39	116.38	Shut-In(1)
91	481.13	116.89	End Shut-In(1)
92	91.11	116.76	Open To Flow (2)
150	127.63	118.59	Shut-In(2)
241	474.58	119.76	End Shut-In(2)
242	1932.72	120.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOM 49% <i>m</i> , 33% <i>o</i> , 18% <i>g</i>	0.61
175.00	CGO 87% <i>o</i> , 10% <i>g</i> , 3% <i>m</i>	1.47
0.00	GIP = 505'	0.00

* Recovery from multiple tests

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: Jeff Christian

6-5s-30w Decatur KS
Earl #1-6
 Job Ticket: 52657 **DST#: 3**
 Test Start: 2013.08.12 @ 02:03:00

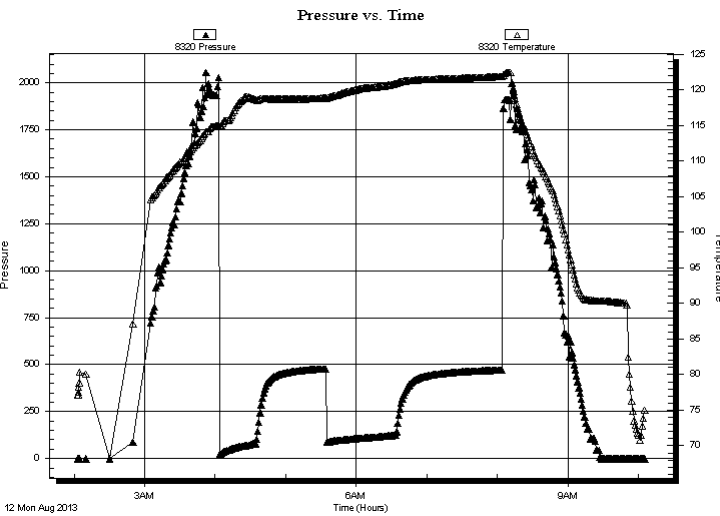
GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 04:02:13 Tester: James Winder
 Time Test Ended: 10:03:58 Unit No: 57
Interval: 3989.00 ft (KB) To 4058.00 ft (KB) (TVD)
 Reference Elevations: 2853.00 ft (KB)
 Total Depth: 4058.00 ft (KB) (TVD) 2842.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8320 Outside

Press @ Run Depth: psig @ 3990.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.12 End Date: 2013.08.12 Last Calib.: 2013.08.12
 Start Time: 02:03:05 End Time: 10:05:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to BOB (11") in 19 1/2"
 60 - IS: Weak surface blow back
 60 - FF: Blow built to BOB in 14 min.
 90 - FS: Blow back built to 1"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOM 49% <i>m</i> , 33% <i>o</i> , 18% <i>g</i>	0.61
175.00	CGO 87% <i>o</i> , 10% <i>g</i> , 3% <i>m</i>	1.47
0.00	GIP = 505'	0.00

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.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52657

DST#: 3

ATTN: Jeff Christian

Test Start: 2013.08.12 @ 02:03:00

Tool Information

Drill Pipe:	Length: 3757.00 ft	Diameter: 3.80 inches	Volume: 52.70 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: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 53.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3989.00 ft			Final 70000.00 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			3966.00	
Hydraulic tool	5.00			3971.00	
Jars	5.00			3976.00	
Safety Joint	3.00			3979.00	
Packer	5.00			3984.00	28.00 Bottom Of Top Packer
Packer	5.00			3989.00	
Stubb	1.00			3990.00	
Recorder	0.00	8671	Inside	3990.00	
Recorder	0.00	8320	Outside	3990.00	
Perforations	28.00			4018.00	
Blank Spacing	33.00			4051.00	
Perforations	4.00			4055.00	
Bullnose	3.00			4058.00	69.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52657

DST#: 3

ATTN: Jeff Christian

Test Start: 2013.08.12 @ 02:03:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 6.36 in³
Resistivity: ohm.m
Salinity: 1400.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 39.4 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	GOM 49% <i>m</i> , 33% <i>o</i> , 18% <i>g</i>	0.615
175.00	CGO 87% <i>o</i> , 10% <i>g</i> , 3% <i>m</i>	1.471
0.00	GIP = 505'	0.000

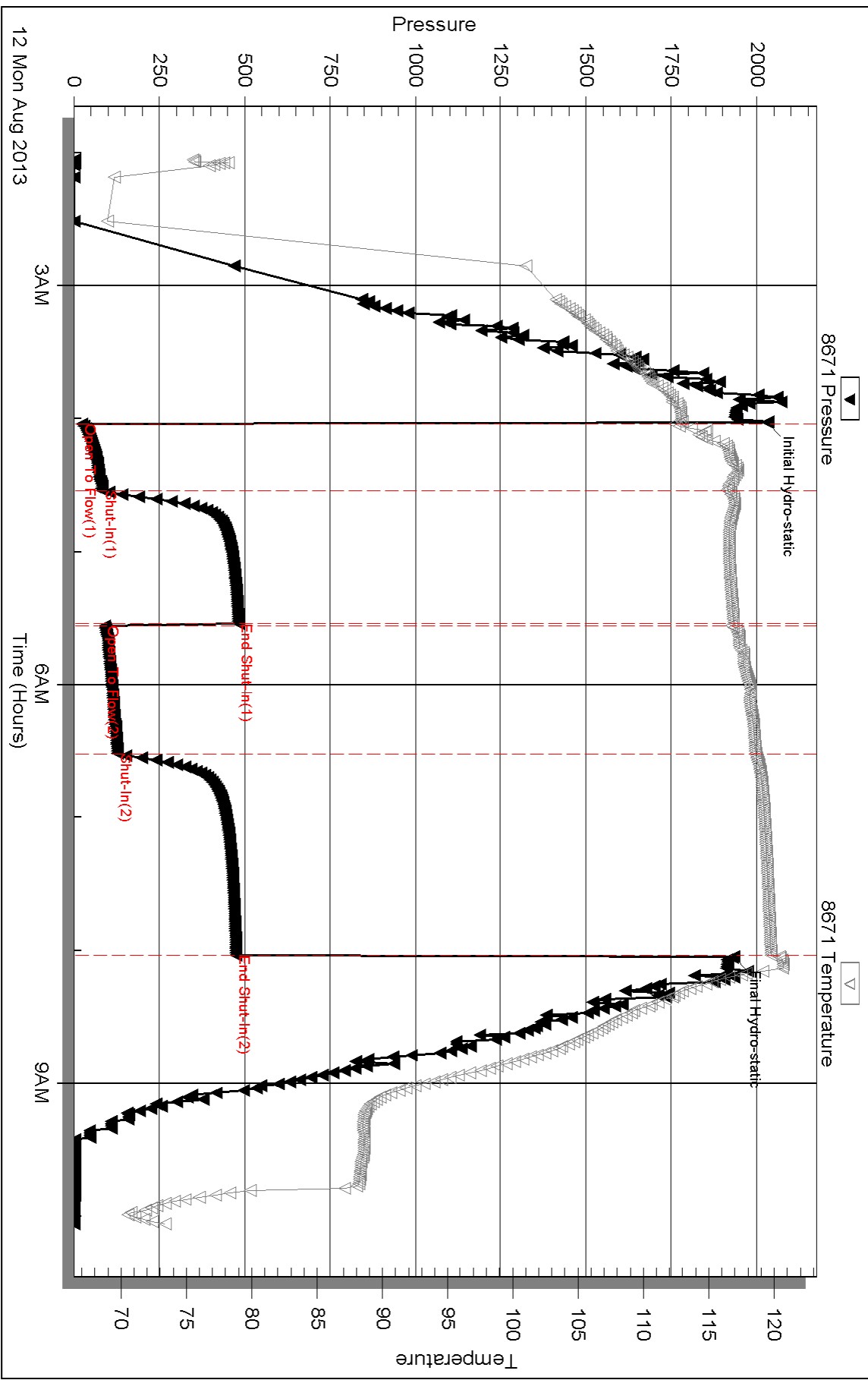
Total Length: 300.00 ft Total Volume: 2.086 bbl

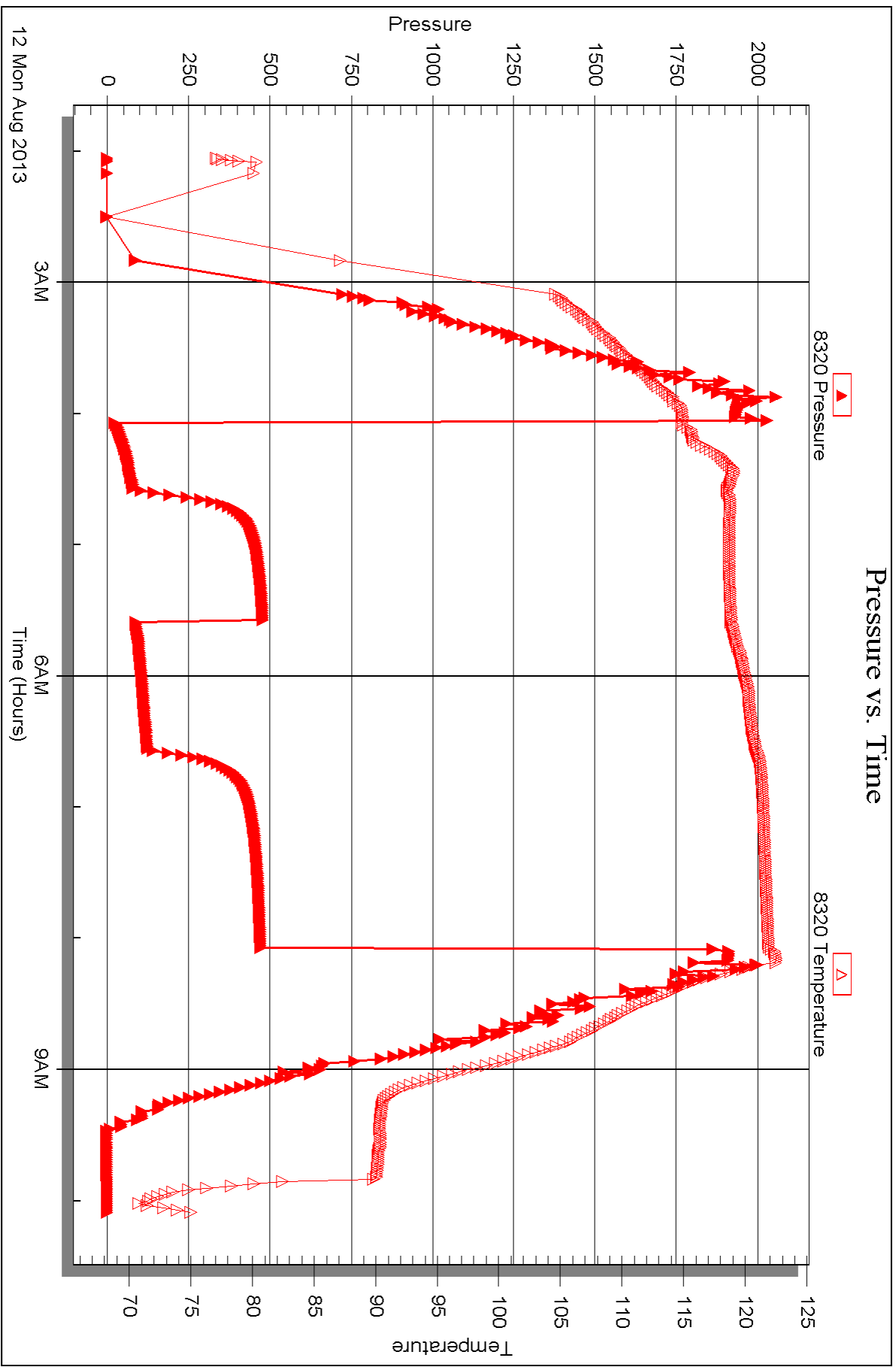
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 41.2 api @ 78 deg F
Corrected Gravity = 39.4 api

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Jeff Christian

Earl #1-6

6-5s-30w Decatur KS

Start Date: 2013.08.12 @ 18:45:00

End Date: 2013.08.13 @ 01:34:30

Job Ticket #: 52658 DST #: 4

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

Printed: 2013.08.15 @ 10:53:20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

6-5s-30w Decatur KS
Earl #1-6
Job Ticket: 52658 **DST#: 4**
Test Start: 2013.08.12 @ 18:45:00

GENERAL INFORMATION:

Formation: **LKC "K - L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:44:15
Time Test Ended: 01:34:30
Interval: **4053.00 ft (KB) To 4110.00 ft (KB) (TVD)**
Total Depth: 4110.00 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: 2853.00 ft (KB)
2842.00 ft (CF)
KB to GR/CF: 11.00 ft

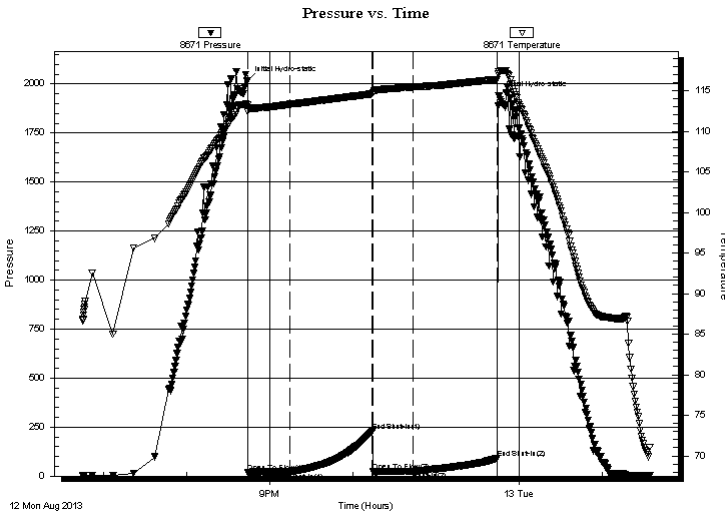
Serial #: 8671

Inside

Press @ Run Depth: 24.06 psig @ 4054.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.08.12 End Date: 2013.08.13 Last Calib.: 2013.08.13
Start Time: 18:45:05 End Time: 01:34:29 Time On Btm: 2013.08.12 @ 20:44:00
Time Off Btm: 2013.08.12 @ 23:45:30

TEST COMMENT: 30 - IF: 1/8" blow at open, died back, dead at 10 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	2019.71	113.24	Initial Hydro-static
1	20.05	112.45	Open To Flow (1)
31	21.68	113.32	Shut-In(1)
91	227.86	114.60	End Shut-In(1)
91	22.33	114.79	Open To Flow (2)
120	24.06	115.47	Shut-In(2)
181	91.01	116.38	End Shut-In(2)
182	1942.80	117.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 88%m, 8%o, 4%g	0.02

* 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.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52658

DST#: 4

ATTN: Jeff Christian

Test Start: 2013.08.12 @ 18:45:00

Tool Information

Drill Pipe:	Length: 3821.00 ft	Diameter: 3.80 inches	Volume: 53.60 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: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 54.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4053.00 ft			Final 70000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4030.00	
Hydraulic tool	5.00			4035.00	
Jars	5.00			4040.00	
Safety Joint	3.00			4043.00	
Packer	5.00			4048.00	28.00 Bottom Of Top Packer
Packer	5.00			4053.00	
Stubb	1.00			4054.00	
Recorder	0.00	8671	Inside	4054.00	
Recorder	0.00	8320	Outside	4054.00	
Perforations	18.00			4072.00	
Blank Spacing	33.00			4105.00	
Perforations	2.00			4107.00	
Bullnose	3.00			4110.00	57.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52658

DST#: 4

ATTN: Jeff Christian

Test Start: 2013.08.12 @ 18:45:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	SOCM 88% <i>m</i> , 8% <i>o</i> , 4% <i>g</i>	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

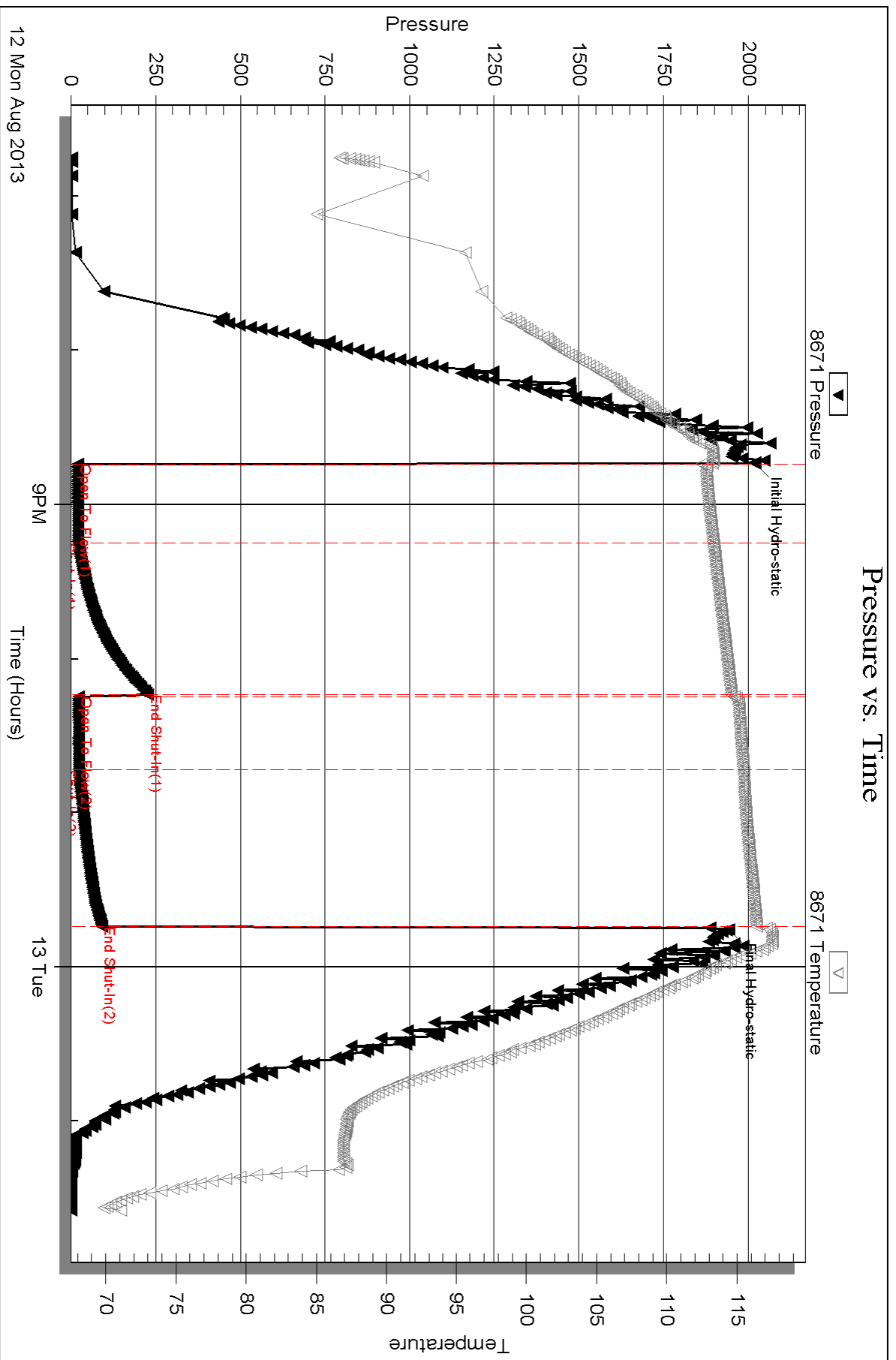
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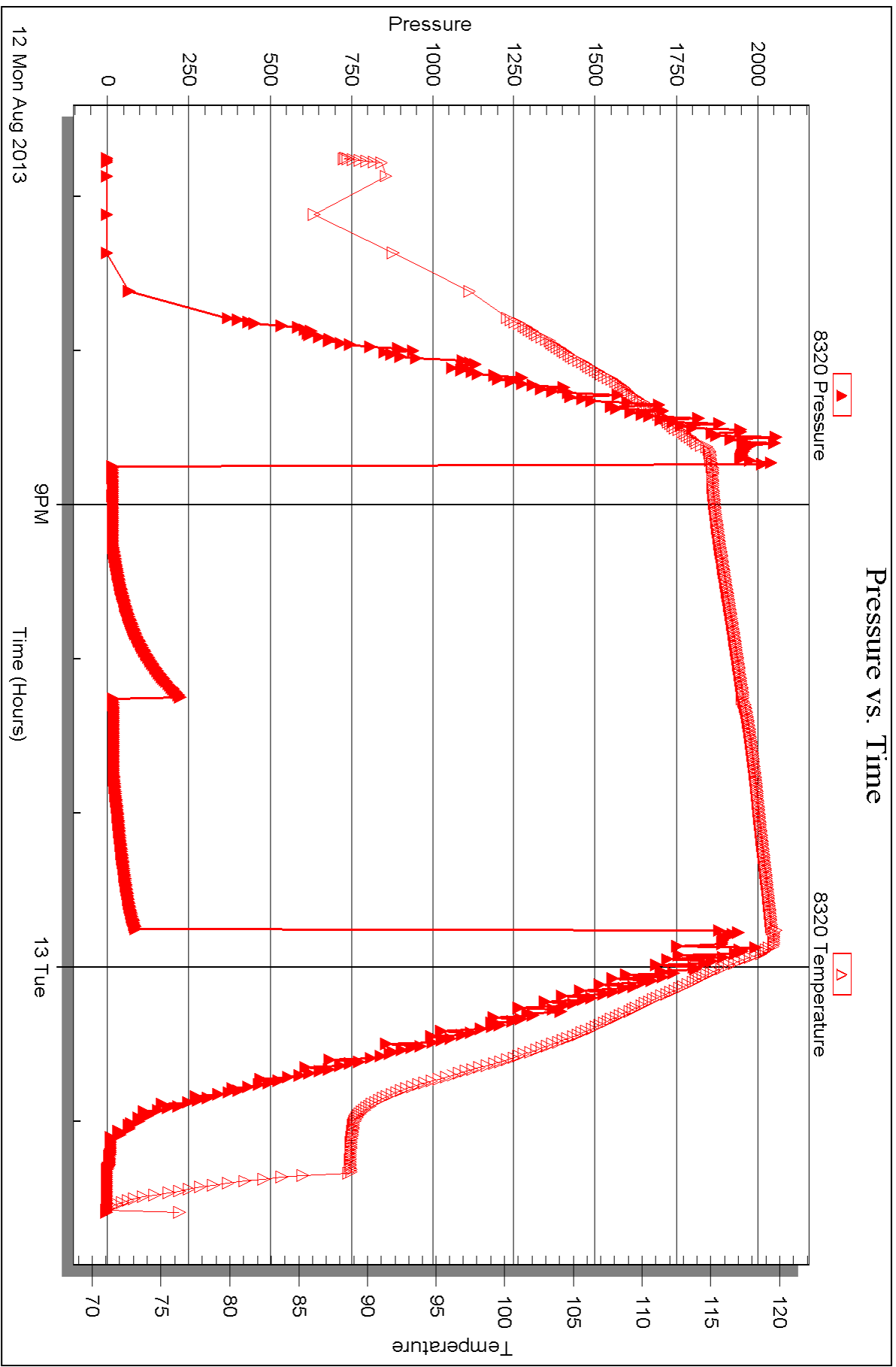
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

250 N. Water STE 300
Wichita, KS 67202

ATTN: Jeff Christian

Earl #1-6

6-5s-30w Decatur KS

Start Date: 2013.08.14 @ 00:15:00

End Date: 2013.08.14 @ 08:15:45

Job Ticket #: 52659 DST #: 5

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

Printed: 2013.08.15 @ 10:52:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

6-5s-30w Decatur KS
Earl #1-6
 Job Ticket: 52659 **DST#: 5**
 Test Start: 2013.08.14 @ 00:15:00

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:09:15 Tester: James Winder
 Time Test Ended: 08:15:45 Unit No: 57
 Interval: **4296.00 ft (KB) To 4328.00 ft (KB) (TVD)** Reference Elevations: 2853.00 ft (KB)
 Total Depth: 4328.00 ft (KB) (TVD) 2842.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

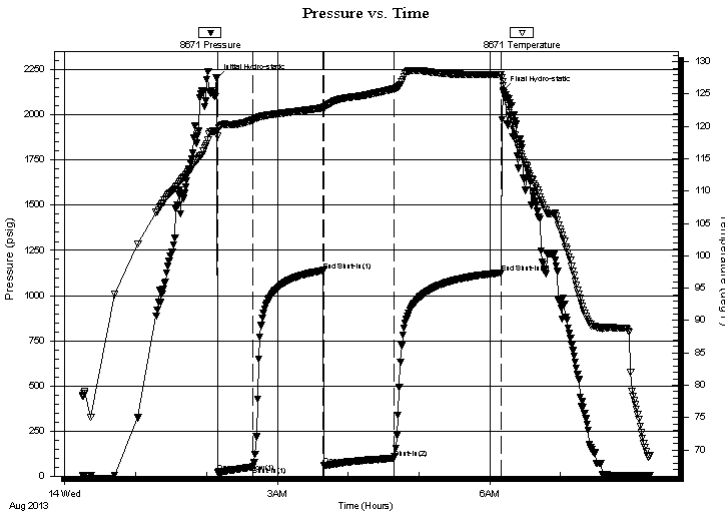
Serial #: 8671

Inside

Press @ Run Depth: 99.90 psig @ 4297.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.14 End Date: 2013.08.14 Last Calib.: 2013.08.14
 Start Time: 00:15:05 End Time: 08:15:44 Time On Btm: 2013.08.14 @ 02:08:45
 Time Off Btm: 2013.08.14 @ 06:11:00

TEST COMMENT: 30 - IF: Blow built to 6 1/4"
 60 - IS: No blow back
 60 - FF: Blow built to 9"
 90 - FS: Weak blow back, built to 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.02	119.23	Initial Hydro-static
1	21.43	118.48	Open To Flow (1)
31	51.57	121.01	Shut-In(1)
90	1138.47	122.85	End Shut-In(1)
91	57.56	123.04	Open To Flow (2)
150	99.90	125.81	Shut-In(2)
241	1126.75	127.97	End Shut-In(2)
243	2135.71	126.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
29.00	GOM 56% _m , 33% _o , 11% _g	0.14
29.00	GMCO 75% _o , 15% _m , 10% _g	0.14
206.00	CGO 69% _o , 31% _g	1.30
0.00	GIP = 95'	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.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52659

DST#: 5

ATTN: Jeff Christian

Test Start: 2013.08.14 @ 00:15:00

Tool Information

Drill Pipe:	Length: 4040.00 ft	Diameter: 3.80 inches	Volume: 56.67 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: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose:	86000.00 lb
			<u>Total Volume: 57.82 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4296.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	60.00 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			4273.00	
Hydraulic tool	5.00			4278.00	
Jars	5.00			4283.00	
Safety Joint	3.00			4286.00	
Packer	5.00			4291.00	28.00 Bottom Of Top Packer
Packer	5.00			4296.00	
Stubb	1.00			4297.00	
Recorder	0.00	8671	Inside	4297.00	
Recorder	0.00	8320	Outside	4297.00	
Perforations	28.00			4325.00	
Bullnose	3.00			4328.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

6-5s-30w Decatur KS

250 N. Water STE 300
Wichita, KS 67202

Earl #1-6

Job Ticket: 52659

DST#: 5

ATTN: Jeff Christian

Test Start: 2013.08.14 @ 00:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 67.00 sec/qt
Water Loss: 5.99 in³
Resistivity: ohm.m
Salinity: 1800.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 22 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
29.00	GOM 56% <i>m</i> , 33% <i>o</i> , 11% <i>g</i>	0.143
29.00	GMCO 75% <i>o</i> , 15% <i>m</i> , 10% <i>g</i>	0.143
206.00	CGO 69% <i>o</i> , 31% <i>g</i>	1.295
0.00	GIP = 95'	0.000

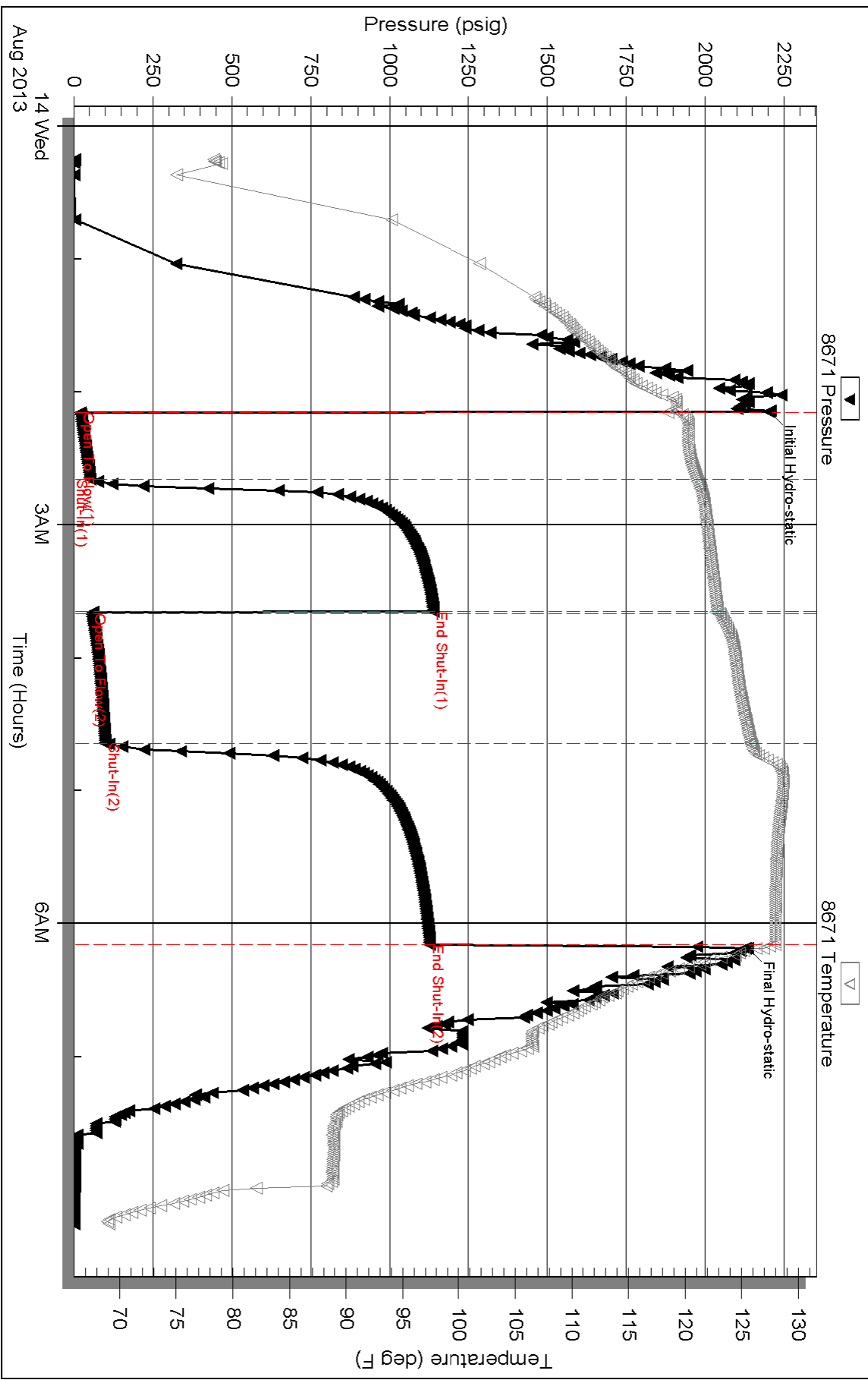
Total Length: 264.00 ft Total Volume: 1.581 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 23 api @ 70 deg F
Corrected Gravity = 22 api

Pressure vs. Time

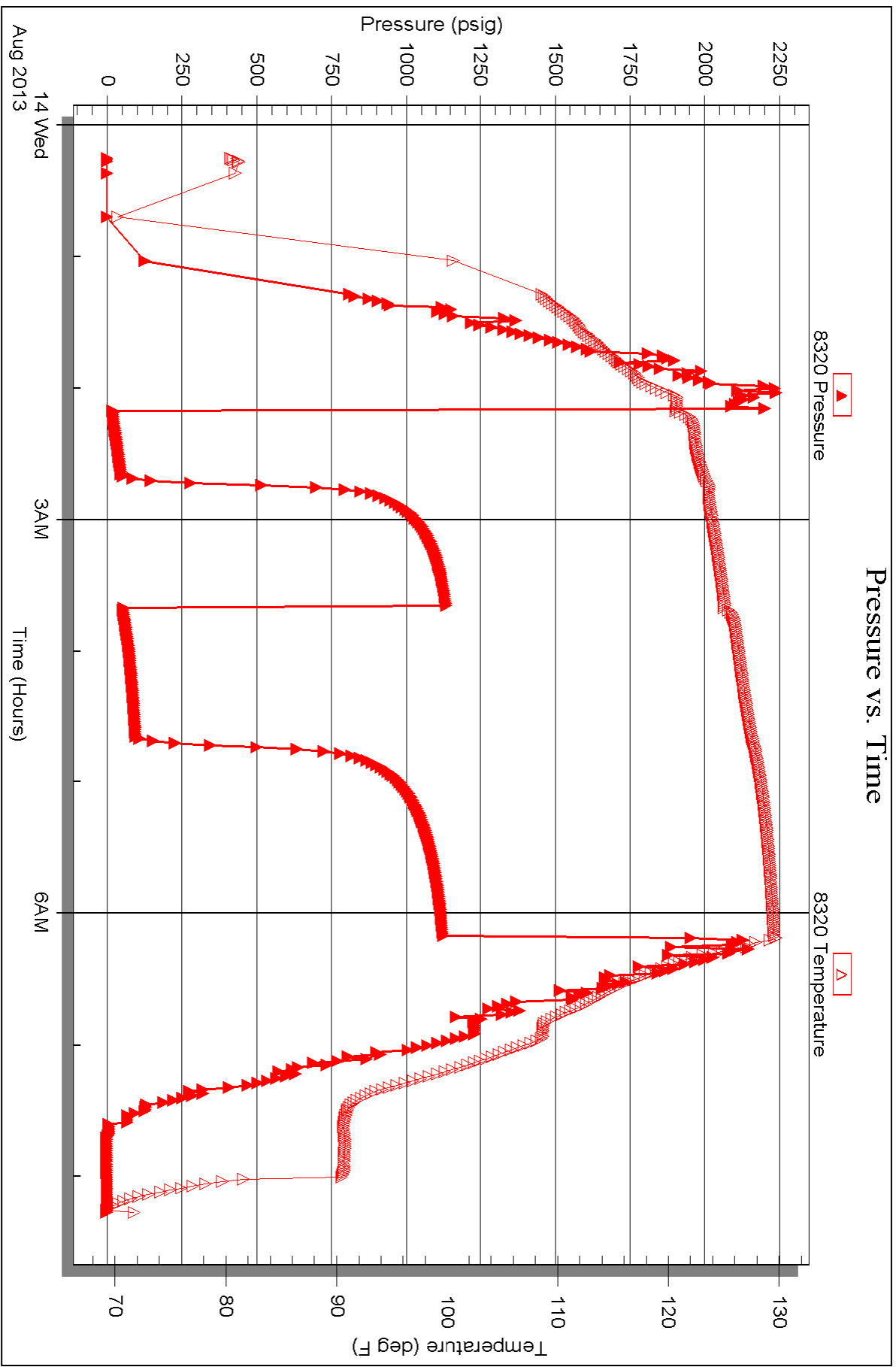


Serial #: 8320

Outside Murfin Drilling Co., Inc.

Earl #1-6

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52655

Well Name & No. Earl #1-6 Test No. 1 Date 8-10-13
 Company Murfin Drilling Co. Inc Elevation 2853 KB 2842 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #2
 Location: Sec. 6 Twp. 5S Rge. 30W Co. ~~Rawlins~~ Decatur State KS

Interval Tested 3840-3928 Zone Tested Toronto - LKC "A+B"
 Anchor Length 88 Drill Pipe Run 3601 Mud Wt. ~~9.2~~ 9.2
 Top Packer Depth 3835 Drill Collars Run 233 Vis 62
 Bottom Packer Depth 3840 Wt. Pipe Run - WL 6.4
 Total Depth 3928 Chlorides 900 ppm System LCM 6
 Blow Description IF: Blow built to 8 3/4" (loose hammer union-tightened at 18 min)
ISI: No blowback
FF: Blow built to BOB (11") in 27 1/2 min.
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
30	SOcm	-	2	-	98
185	SO/wcm	1	3	28	68
62	SO/mw	5	2	53	40
233	MCW w/trace of oil	-	trace	81	19
		%gas	%oil	%water	%mud

Rec Total 510 BHT 120 Gravity - API RW 348 @ 78 °F Chlorides 17,500 ppm

(A) Initial Hydrostatic 1917 Test * 1150 T-On Location 10:45
 (B) First Initial Flow 27 Jars * 250 T-Started 11:43
 (C) First Final Flow 165 Safety Joint * 75 T-Open 13:56
 (D) Initial Shut-In 1231 Circ Sub * NA T-Pulled 17:57
 (E) Second Initial Flow 169 Hourly Standby T-Out 19:45
 (F) Second Final Flow 258 Mileage 48RT 74.40 Comments IF: 2" blow at 4 min.
 (G) Final Shut-In 1213 Sampler Found loose hammer union
 (H) Final Hydrostatic 1905 Straddle blow built from 3" to 8 3/4"
 Shale Packer 18 min - result for 30 min.
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Initial Open 30 Extra Recorder Sub Total 0
 Initial Shut-In 60 Day Standby Total 1549.40
 Final Flow 60 Accessibility MP/DST Disc't
 Final Shut-In 90 Sub Total 1549.40

Approved By Jeff Christian 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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52656

Well Name & No. Earl #1-6 Test No. 2 Date 8-11-13
 Company Murfin Drilling Co. Inc Elevation 2853 KB 2842 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #2
 Location: Sec. 6 Twp. 5S Rge. 30W Co. Decatur State KS

Interval Tested 3943 - 3970 Zone Tested LKC "F"
 Anchor Length 27 Drill Pipe Run 3694 Mud Wt. 9.2
 Top Packer Depth 3938 Drill Collars Run 233 Vis 65
 Bottom Packer Depth 3943 Wt. Pipe Run - WL 6.8
 Total Depth 3970 Chlorides 1400 ppm System LCM 6

Blow Description IF: Blow built to BOB (11") in 19 1/2 min.
ISI: Blowback built to 1/8"
FF: Blow built to BOB in 15 min
FSI: Blowback built to 1 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>146</u>	<u>CGO</u>	<u>8</u>	<u>90</u>	<u>-</u>	<u>2</u>
<u>117</u>	<u>Gmco</u>	<u>16</u>	<u>52</u>	<u>-</u>	<u>32</u>
<u></u>	<u>CGO BIP = 410'</u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

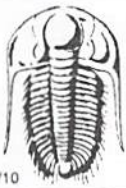
Rec Total 263 BHT 123 Gravity 32.6 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1990 Test 1150 T-On Location 5:30
 (B) First Initial Flow 25 Jars 250 T-Started 5:41
 (C) First Final Flow 70 Safety Joint 75 T-Open 7:44
 (D) Initial Shut-In 1400 Circ Sub *NA T-Pulled 11:44
 (E) Second Initial Flow 76 Hourly Standby _____ T-Out 1:30
 (F) Second Final Flow 116 Mileage 48RT 74.40
 (G) Final Shut-In 1387 Sampler _____
 (H) Final Hydrostatic 1930 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____
 Initial Shut-In 60 Extra Recorder _____
 Final Flow 60 Day Standby _____
 Final Shut-In 90 Accessibility _____
 Sub Total 1549.40 Sub Total 1549.40

Approved By Jeff Christian Our Representative James Winder

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52657

Well Name & No. Earl #1-6 Test No. 3 Date 8-12-13
 Company Murfin Drilling Co. Inc Elevation 2853 KB 2842 GL
 Address 250 N. Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #2
 Location: Sec. 6 Twp. 5S Rge. 30W Co. Decatur State KS

Interval Tested 3989-4058 Zone Tested LKC "H-J"
 Anchor Length 69 Drill Pipe Run 3757 Mud Wt. 9.2
 Top Packer Depth 3984 Drill Collars Run 233 Vis 58
 Bottom Packer Depth 3989 Wt. Pipe Run - WL 6.04
 Total Depth 4058 Chlorides 1400 ppm System LCM 5

Blow Description IF: Blow built to BOB (11") in 19 1/2 min.
ISI: Weak surface blowback
FF: Blow built to BOB in 14 min.
FSI: Blowback built to 1"

Rec	Feet of	%gas	%oil	%water	%mud
<u>175</u>	<u>CGO</u>	<u>10</u>	<u>87</u>	<u>3</u>	<u>3</u>
<u>125</u>	<u>GOM</u>	<u>18</u>	<u>33</u>	<u>49</u>	<u>49</u>
<u>Rec</u>	<u>Feet of GIP = 505'</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 300 BHT 120 Gravity 39.4 API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2031 Test * 1250 T-On Location 1:40
 (B) First Initial Flow 25 Jars * 250 T-Started 2:03
 (C) First Final Flow 83 Safety Joint * 75 T-Open 4:02
 (D) Initial Shut-In 481 Circ Sub *NA T-Pulled 8:02
 (E) Second Initial Flow 91 Hourly Standby - T-Out 10:00
 (F) Second Final Flow 128 Mileage 48 RT 74.40 Comments -
 (G) Final Shut-In 475 Sampler -
 (H) Final Hydrostatic 1933 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 0
 Day Standby - Total 1649.40
 Accessibility - MP/DST Disc't -
 Sub Total 1649.40

Approved By Jeff Chrt Our Representative James Winder

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52658

4/10

Well Name & No. Earl #1-6 Test No. 4 Date 8-12-13
 Company Murfin Drilling Co. Inc Elevation 2853 KB 2842 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #2
 Location: Sec. 6 Twp. 5S Rge. 30W Co. Decatur State KS

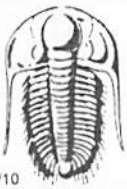
Interval Tested 4053-4110 Zone Tested LKC "K-L"
 Anchor Length 57 Drill Pipe Run 3821 Mud Wt. 9.3
 Top Packer Depth 4048 Drill Collars Run 233 Vis 66
 Bottom Packer Depth 4053 Wt. Pipe Run - WL 6.8
 Total Depth 4110 Chlorides 1700 ppm System LCM 6
 Blow Description IF: 1/8" Blow at open, died back, dead at 10 min.
ISI: No blowback
FF: No blow
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>50cm</u>	<u>4</u>	<u>8</u>	<u>-</u>	<u>88</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 116 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2020 Test * 1250 T-On Location 18:15 8/12
 (B) First Initial Flow 20 Jars * 250 T-Started 18:45
 (C) First Final Flow 22 Safety Joint * 75 T-Open 20:44
 (D) Initial Shut-In 228 Circ Sub *NA T-Pulled 23:44
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 1:25 8/13
 (F) Second Final Flow 24 Mileage 48RT 74.40 Comments _____
 (G) Final Shut-In 91 Sampler _____
 (H) Final Hydrostatic 1943 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1649.40
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1649.40

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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52659

Well Name & No. Earl #1-6 Test No. 5 Date 8-14-13
 Company Murfin Drilling Co. Inc Elevation 2853 KB 2842 GL
 Address 250 N. Water Suite 300 Wichita, KS 67202
 Co. Rep / Geo. Jeff Christian Rig Murfin #2
 Location: Sec. 6 Twp. 5s Rge. 30w Co. Decatur State KS

Interval Tested 4296-4328 Zone Tested Cherokee
 Anchor Length 32 Drill Pipe Run 4040 Mud Wt. 9.2
 Top Packer Depth 4291 Drill Collars Run 233 Vis 67
 Bottom Packer Depth 4296 Wt. Pipe Run - WL 6.0
 Total Depth 4328 Chlorides 1800 ppm System LCM 5

Blow Description IF: Blow built to 6 1/4"
ISI: No blowback
FF: Blow built to 9"
FSI: Weak blowback, built to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>206</u>	<u>C50</u>	<u>31</u>	<u>69</u>	<u>-</u>	<u>-</u>
<u>29</u>	<u>EMCO</u>	<u>10</u>	<u>75</u>	<u>-</u>	<u>15</u>
<u>29</u>	<u>50M</u>	<u>11</u>	<u>33</u>	<u>-</u>	<u>56</u>
	<u>GIP = 95'</u>				
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 264 BHT 128 Gravity 22 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2203
 (B) First Initial Flow 21
 (C) First Final Flow 52
 (D) Initial Shut-In 1138
 (E) Second Initial Flow 58
 (F) Second Final Flow 100
 (G) Final Shut-In 1127
 (H) Final Hydrostatic 2136

- Test * 1250
- Jars * 250
- Safety Joint * 75
- Circ Sub *NA
- Hourly Standby
- Mileage 48RT 74.40
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

T-On Location 23:15 8/13
 T-Started 00:15 8/14
 T-Open 2:09
 T-Pulled 6:09
 T-Out 8:05

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1649.40
 MP/DST Disc't _____

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

Approved By Jeff Christian 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 of 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.