



DRILL STEM TEST REPORT

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

250 N. Water
STE 300
Wichita KS 67202+1216

ATTN: Robert Stolzle

Phillip Unit #1-19

19-14s-16w Ellis,KS

Start Date: 2012.04.15 @ 02:24:05

End Date: 2012.04.15 @ 10:04:50

Job Ticket #: 47258 DST #: 1

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

Printed: 2012.04.19 @ 09:30:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling. Co.
 250 N. Water
 STE 300
 Wichita KS 67202+1216
 ATTN: Robert Stolze

19-14s-16w Ellis, KS
Phillip Unit #1-19
 Job Ticket: 47258 **DST#: 1**
 Test Start: 2012.04.15 @ 02:24:05

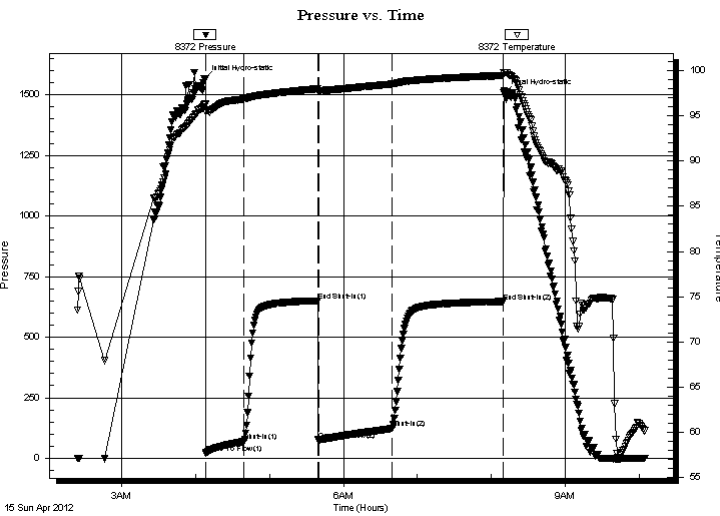
GENERAL INFORMATION:

Formation: **LKC"A-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:08:00
 Time Test Ended: 10:04:50
 Interval: **3175.00 ft (KB) To 3255.00 ft (KB) (TVD)**
 Total Depth: 3255.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1932.00 ft (KB)
 1921.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8372 Outside

Press@RunDepth: 123.21 psig @ 3178.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.15 End Date: 2012.04.15 Last Calib.: 2012.04.15
 Start Time: 02:24:05 End Time: 10:04:50 Time On Btm: 2012.04.15 @ 04:06:50
 Time Off Btm: 2012.04.15 @ 08:10:09

TEST COMMENT: IF:(30min) 1.5" blow
 IS:(60min) No Return
 FF:(60min) 1" blow
 FS:(90min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1564.87	96.18	Initial Hydro-static
2	20.84	95.40	Open To Flow (1)
33	69.95	96.83	Shut-In(1)
93	650.15	97.98	End Shut-In(1)
93	75.96	97.78	Open To Flow (2)
153	123.21	98.50	Shut-In(2)
243	646.95	99.44	End Shut-In(2)
244	1506.85	99.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCWM o=10% w=20% m=70%	0.59
60.00	OCM o=10% m=90%	0.30
20.00	HOCGM g=10% o=30% m=60%	0.10

Gas Rates

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



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DRILL STEM TEST REPORT

Murfin Drilling, Co.
 250 N. Water
 STE 300
 Wichita KS 67202+1216
 ATTN: Robert Stolze

19-14s-16w Ellis, KS
Phillip Unit #1-19
 Job Ticket: 47258 **DST#: 1**
 Test Start: 2012.04.15 @ 02:24:05

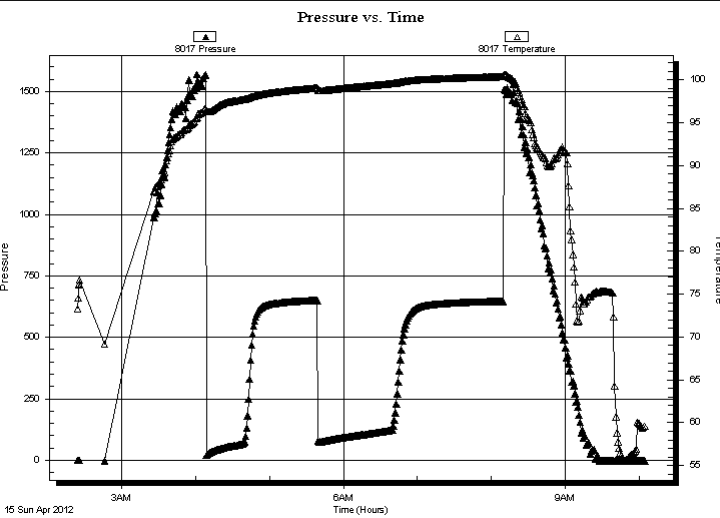
GENERAL INFORMATION:

Formation:	LKC "A-D"		Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock:	ft (KB)	Tester:	Andy Carreira
Time Tool Opened:	04:08:00		Unit No:	39
Time Test Ended:	10:04:50		Reference Elevations:	1932.00 ft (KB) 1921.00 ft (CF)
Interval:	3175.00 ft (KB) To 3255.00 ft (KB) (TVD)		KB to GR/CF:	11.00 ft
Total Depth:	3255.00 ft (KB) (TVD)			
Hole Diameter:	7.88 inches Hole Condition:	Fair		

Serial #: 8017 Inside

Press @ Run Depth:	psig @ 3178.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2012.04.15	End Date:	2012.04.15
Start Time:	02:24:05	End Time:	10:04:50
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF:(30min) 1.5" blow
 IS:(60min) No Return
 FF:(60min) 1" blow
 FS:(90min) No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OCWM o=10% w =20% m=70%	0.59
60.00	OCM o=10% m=90%	0.30
20.00	HOCGM g=10% o=30% m=60%	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling. Co.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47258

DST#: 1

Test Start: 2012.04.15 @ 02:24:05

Tool Information

Drill Pipe:	Length: 2890.00 ft	Diameter: 3.80 inches	Volume: 40.54 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 264.54 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 41.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.54 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3175.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	108.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3148.00	
Shut In Tool	5.00			3153.00	
Hydraulic tool	5.00			3158.00	
Jars	5.00			3163.00	
Safety Joint	3.00			3166.00	
Packer	5.00			3171.00	28.00 Bottom Of Top Packer
Packer	4.00			3175.00	
Stubb	1.00			3176.00	
Perforations	1.00			3177.00	
Change Over Sub	1.00			3178.00	
Recorder	0.00	8017	Inside	3178.00	
Recorder	0.00	8372	Outside	3178.00	
Drill Pipe	63.00			3241.00	
Change Over Sub	1.00			3242.00	
Perforations	10.00			3252.00	
Bullnose	3.00			3255.00	80.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling, Co.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47258 **DST#: 1**

Test Start: 2012.04.15 @ 02:24:05

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: 7.93 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OCWM o=10% w =20% m=70%	0.590
60.00	OCM o=10% m=90%	0.295
20.00	HOCGM g=10% o=30% m=60%	0.098

Total Length: 200.00 ft Total Volume: 0.983 bbl

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

Laboratory Name: Laboratory Location:

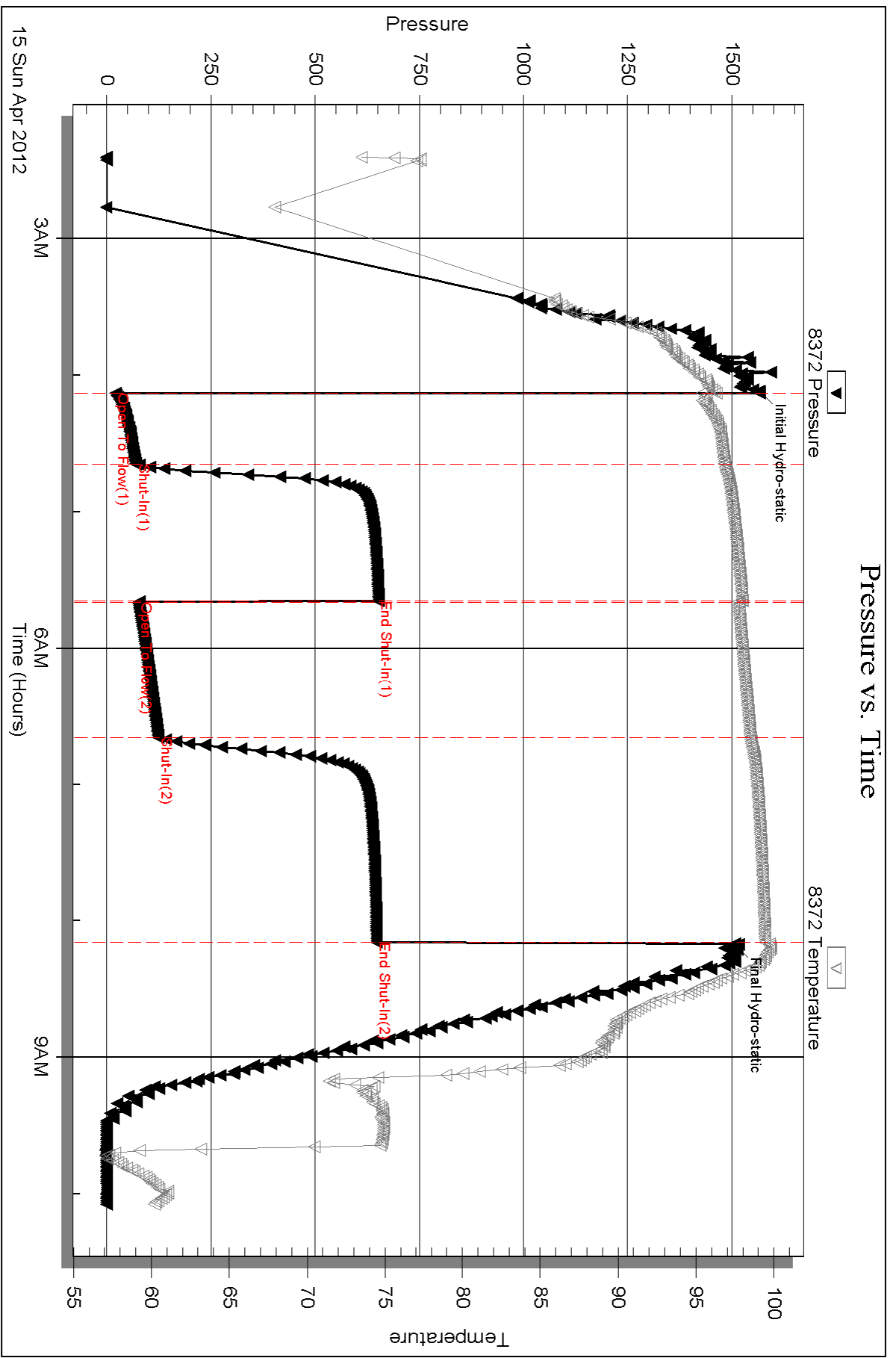
Recovery Comments:

Serial #: 8372

Outside Murfin Drilling Co.

Phillip Unit #1-19

DST Test Number: 1



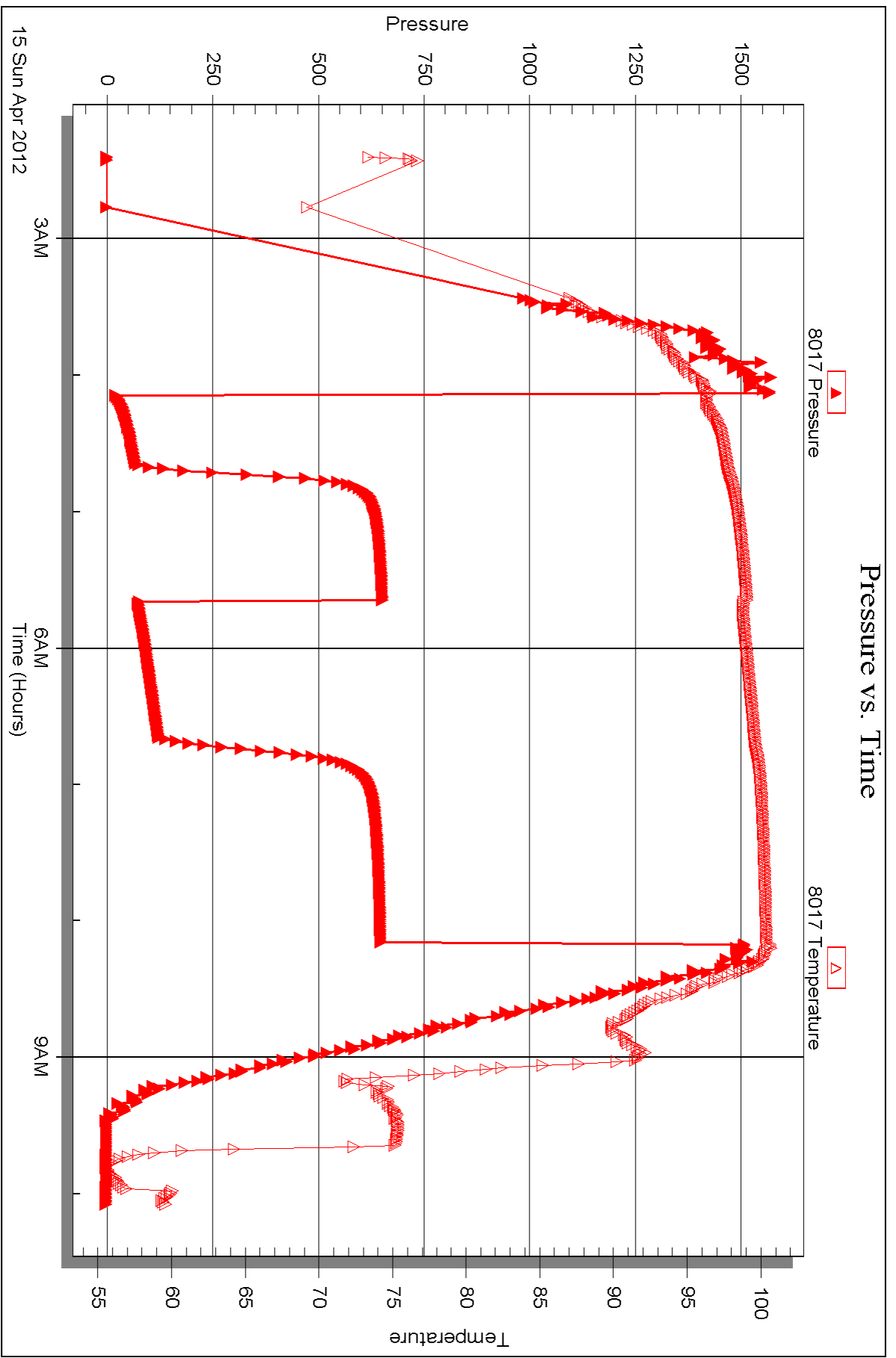
Serial #: 8017

Inside

Murfin Drilling Co.

Phillip Unit #1-19

DST Test Number: 1





DRILL STEM TEST REPORT

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

250 N. Water
STE 300
Wichita KS 67202+1216

ATTN: Robert Stolzle

Phillip Unit #1-19

19-14s-16w Ellis,KS

Start Date: 2012.04.15 @ 16:37:05

End Date: 2012.04.15 @ 23:02:09

Job Ticket #: 47259 DST #: 2

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

Printed: 2012.04.19 @ 09:29:35



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TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling. Co.
250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolze

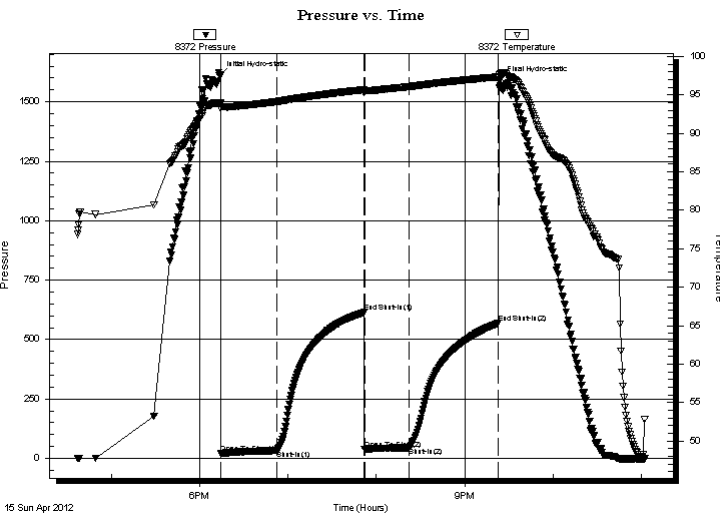
19-14s-16w Ellis,KS
Phillip Unit #1-19
Job Ticket: 47259 **DST#: 2**
Test Start: 2012.04.15 @ 16:37:05

GENERAL INFORMATION:

Formation: **LKC"E-G"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 18:14:20 Tester: Andy Carreira
Time Test Ended: 23:02:09 Unit No: 39
Interval: 3256.00 ft (KB) To 3300.00 ft (KB) (TVD) Reference Elevations: 1932.00 ft (KB)
Total Depth: 3300.00 ft (KB) (TVD) 1921.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8372 Outside
Press @ Run Depth: 45.16 psig @ 3260.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.15 End Date: 2012.04.15 Last Calib.: 2012.04.15
Start Time: 16:37:05 End Time: 23:02:10 Time On Btm: 2012.04.15 @ 18:13:20
Time Off Btm: 2012.04.15 @ 21:23:50

TEST COMMENT: IF:(37min) Blow died in 18 min. 37min instead of 30min. Rotary Chain Broke.
ISl:(60min) No Return
FF:(30min) No Blow
FSl:(60min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1610.82	93.93	Initial Hydro-static
1	19.89	93.19	Open To Flow (1)
40	32.81	94.16	Shut-In(1)
99	614.11	95.69	End Shut-In(1)
99	38.62	95.33	Open To Flow (2)
129	45.16	96.08	Shut-In(2)
190	567.99	97.37	End Shut-In(2)
191	1590.77	97.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud	0.32

* Recovery from multiple tests

Gas Rates

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



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 250 N. Water
 STE 300
 Wichita KS 67202+1216
 ATTN: Robert Stolzle

19-14s-16w Ellis, KS
Phillip Unit #1-19
 Job Ticket: 47259 **DST#: 2**
 Test Start: 2012.04.15 @ 16:37:05

GENERAL INFORMATION:

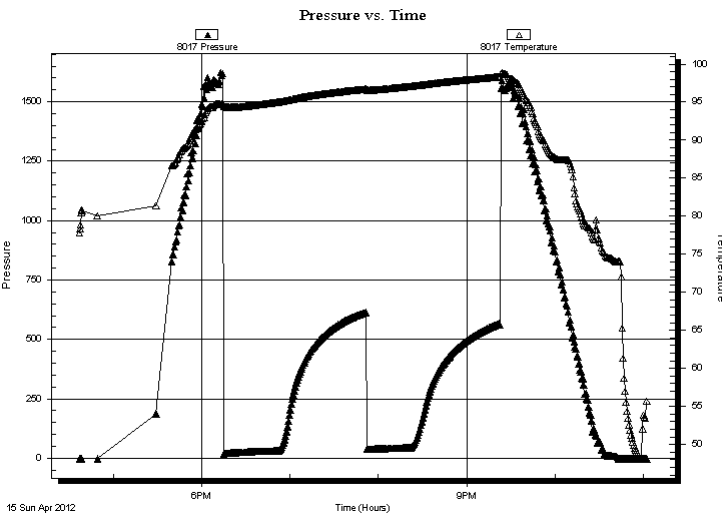
Formation: **LKC"E-G"**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:14:20 Tester: Andy Carreira
 Time Test Ended: 23:02:09 Unit No: 39

Interval: 3256.00 ft (KB) To 3300.00 ft (KB) (TVD) Reference Elevations: 1932.00 ft (KB)
 Total Depth: 3300.00 ft (KB) (TVD) 1921.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8017 Inside

Press @ Run Depth: psig @ 3260.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.15 End Date: 2012.04.15 Last Calib.: 2012.04.15
 Start Time: 16:37:05 End Time: 23:02:10 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:(37min) Blow died in 18 min. 37min instead of 30min. Rotary Chain Broke.
 ISl:(60min) No Return
 FF:(30min) No Blow
 FSl:(60min) No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud	0.32

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.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47259

DST#: 2

Test Start: 2012.04.15 @ 16:37:05

Tool Information

Drill Pipe:	Length: 2984.00 ft	Diameter: 3.80 inches	Volume: 41.86 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 264.54 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 43.16 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.54 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	3256.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	72.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3229.00	
Shut In Tool	5.00			3234.00	
Hydraulic tool	5.00			3239.00	
Jars	5.00			3244.00	
Safety Joint	3.00			3247.00	
Packer	5.00			3252.00	28.00 Bottom Of Top Packer
Packer	4.00			3256.00	
Stubb	1.00			3257.00	
Perforations	2.00			3259.00	
Change Over Sub	1.00			3260.00	
Recorder	0.00	8017	Inside	3260.00	
Recorder	0.00	8372	Outside	3260.00	
Drill Pipe	32.00			3292.00	
Change Over Sub	1.00			3293.00	
Perforations	4.00			3297.00	
Bullnose	3.00			3300.00	44.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling, Co.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47259 **DST#: 2**
Test Start: 2012.04.15 @ 16:37:05

Mud and Cushion Information

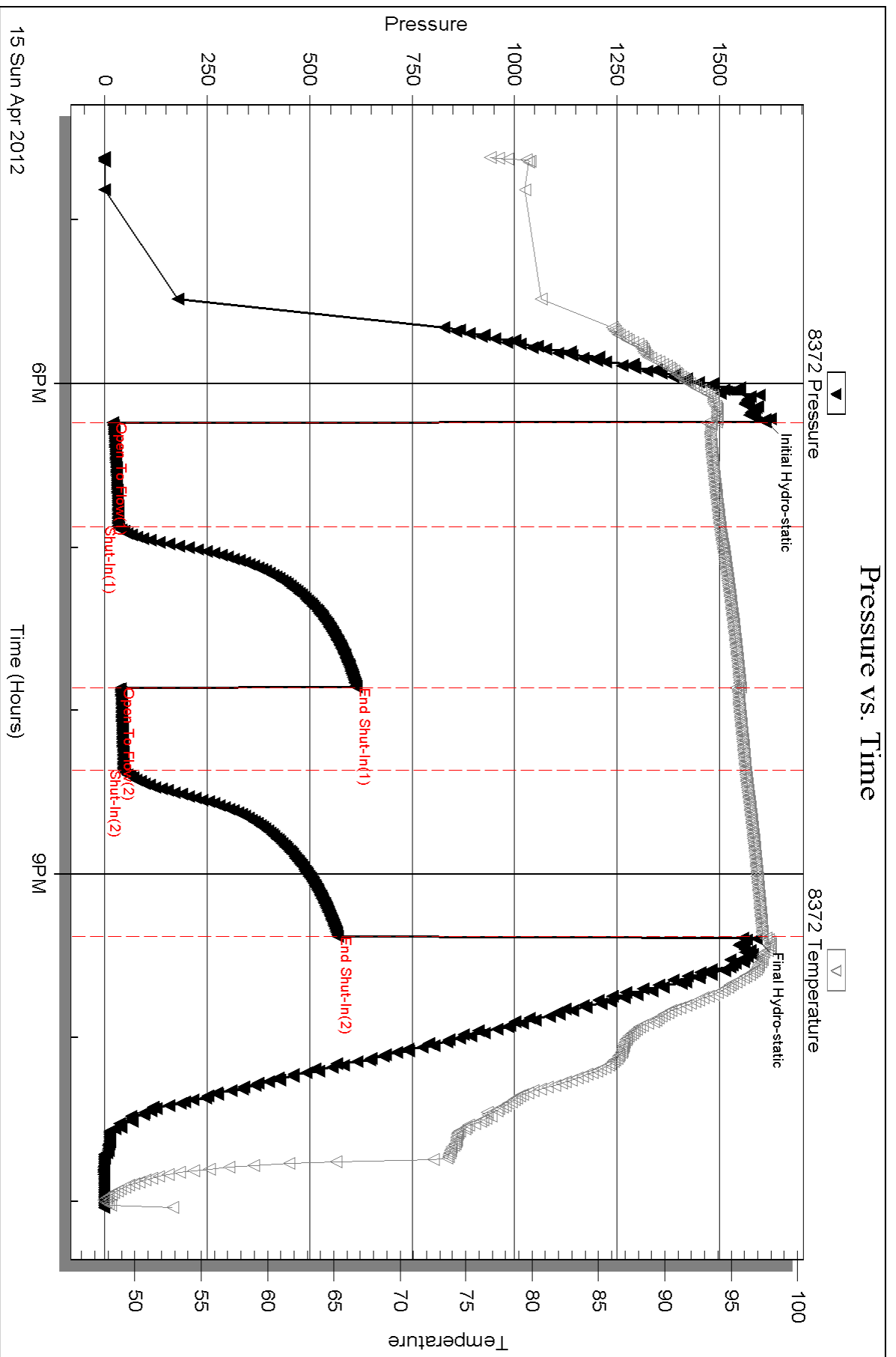
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.92 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



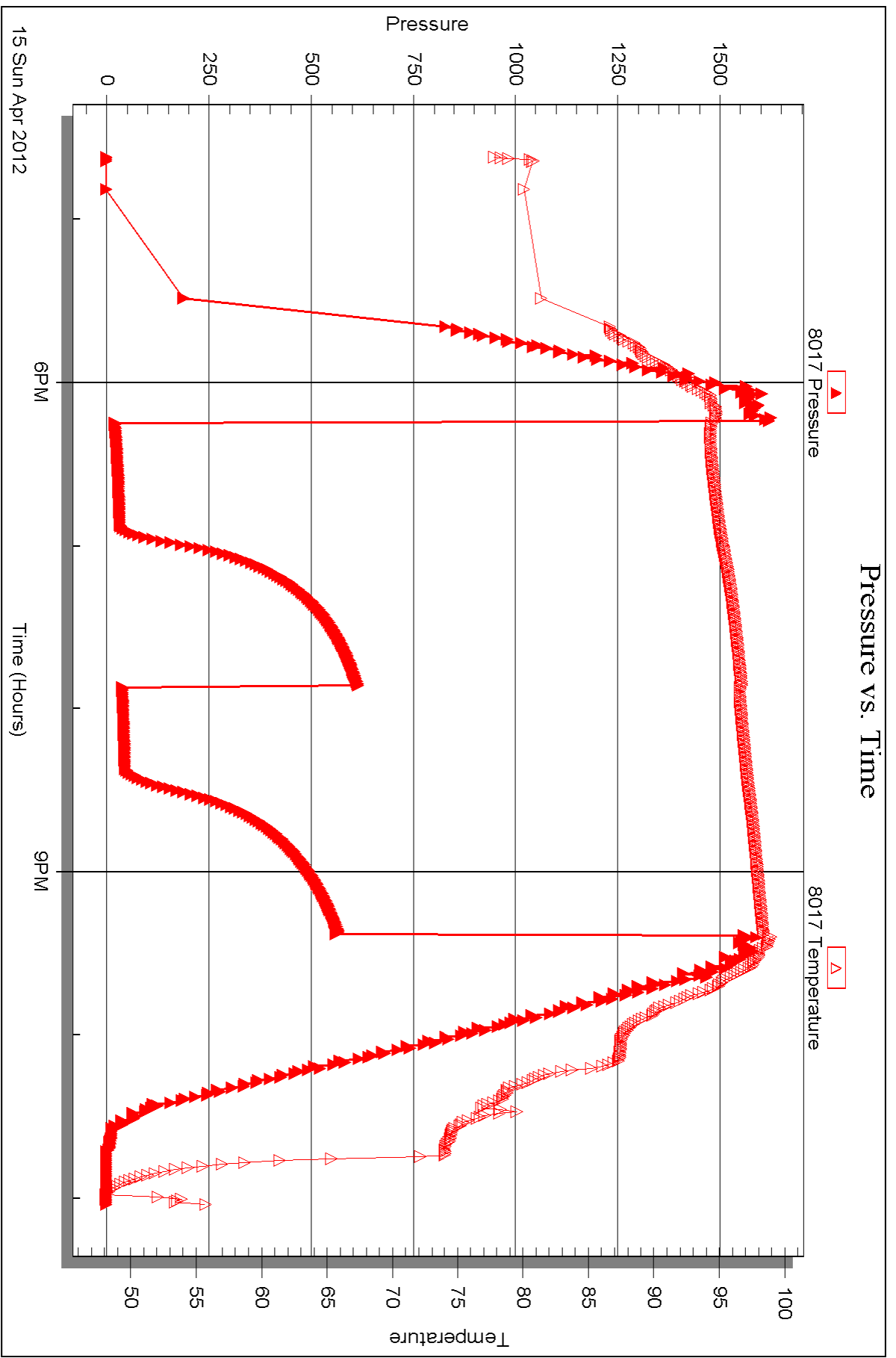
Serial #: 8017

Inside

Murfin Drilling Co.

Phillip Unit #1-19

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47259

Printed: 2012.04.19 @ 09:29:38



DRILL STEM TEST REPORT

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

250 N. Water
STE 300
Wichita KS 67202+1216

ATTN: Robert Stolze

Phillip Unit #1-19

19-14s-16w Ellis,KS

Start Date: 2012.04.16 @ 11:02:05

End Date: 2012.04.16 @ 17:22:29

Job Ticket #: 47260 DST #: 3

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling. Co.
250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolze

19-14s-16w Ellis,KS
Phillip Unit #1-19
Job Ticket: 47260 **DST#: 3**
Test Start: 2012.04.16 @ 11:02:05

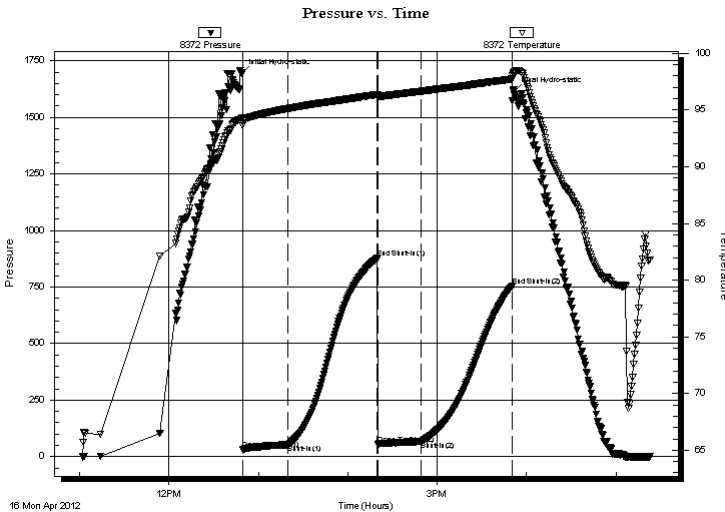
GENERAL INFORMATION:

Formation: **LKC"H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:49:40
Time Test Ended: 17:22:29
Interval: **3315.00 ft (KB) To 3420.00 ft (KB) (TVD)**
Total Depth: 3420.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 1932.00 ft (KB)
1921.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8372 Outside
Press @ Run Depth: 66.99 psig @ 3319.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.16 End Date: 2012.04.16 Last Calib.: 2012.04.16
Start Time: 11:02:05 End Time: 17:22:29 Time On Btm: 2012.04.16 @ 12:48:50
Time Off Btm: 2012.04.16 @ 15:51:20

TEST COMMENT: IF:(30min) Blow Died in 20 min.
IS:(60min) No Return
FF:(30min) Surface Blow
FS:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.30	94.26	Initial Hydro-static
1	31.43	93.60	Open To Flow (1)
31	52.64	95.13	Shut-In(1)
91	876.90	96.37	End Shut-In(1)
92	55.26	96.13	Open To Flow (2)
121	66.99	96.66	Shut-In(2)
182	752.68	97.73	End Shut-In(2)
183	1614.23	98.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	SOCGM g=5% o=5% 90%	0.39

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling, Co.
250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolze

19-14s-16w Ellis, KS

Phillip Unit #1-19

Job Ticket: 47260

DST#: 3

Test Start: 2012.04.16 @ 11:02:05

GENERAL INFORMATION:

Formation: **LKC"H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:49:40
Time Test Ended: 17:22:29
Interval: **3315.00 ft (KB) To 3420.00 ft (KB) (TVD)**
Total Depth: 3420.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 1932.00 ft (KB)
1921.00 ft (CF)
KB to GR/CF: 11.00 ft

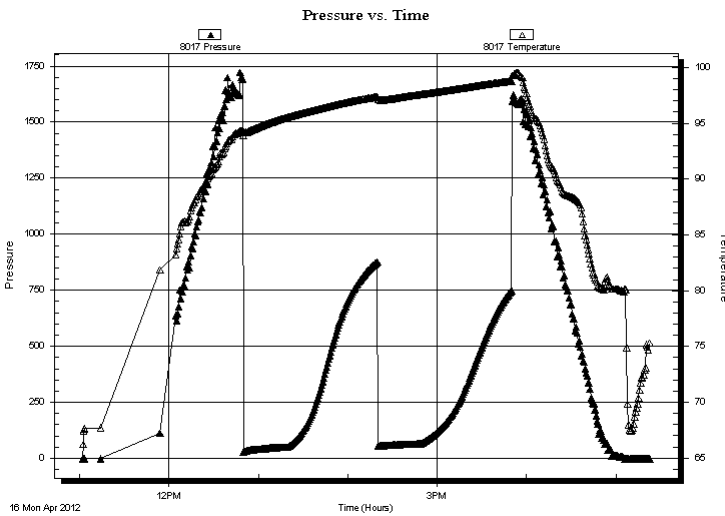
Serial #: 8017

Inside

Press @ Run Depth: psig @ 3319.00 ft (KB)
Capacity: 8000.00 psig
Start Date: 2012.04.16 End Date: 2012.04.16 Last Calib.: 2012.04.16
Start Time: 11:02:05 End Time: 17:22:40
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:(30min) Blow Died in 20 min.
IS:(60min) No Return
FF:(30min) Surface Blow
FS:(60min) No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
80.00	SOCGM g=5% o=5% 90%	0.39

* 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.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47260

DST#: 3

Test Start: 2012.04.16 @ 11:02:05

Tool Information

Drill Pipe:	Length: 3043.00 ft	Diameter: 3.80 inches	Volume: 42.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 264.54 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 43.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.54 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3315.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	133.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3288.00	
Shut In Tool	5.00			3293.00	
Hydraulic tool	5.00			3298.00	
Jars	5.00			3303.00	
Safety Joint	3.00			3306.00	
Packer	5.00			3311.00	28.00 Bottom Of Top Packer
Packer	4.00			3315.00	
Stubb	1.00			3316.00	
Perforations	2.00			3318.00	
Change Over Sub	1.00			3319.00	
Recorder	0.00	8017	Inside	3319.00	
Recorder	0.00	8372	Outside	3319.00	
Drill Pipe	94.00			3413.00	
Change Over Sub	1.00			3414.00	
Perforations	3.00			3417.00	
Bullnose	3.00			3420.00	105.00 Bottom Packers & Anchor
Total Tool Length:	133.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling. Co.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47260 **DST#: 3**
Test Start: 2012.04.16 @ 11:02:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.15 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 15000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

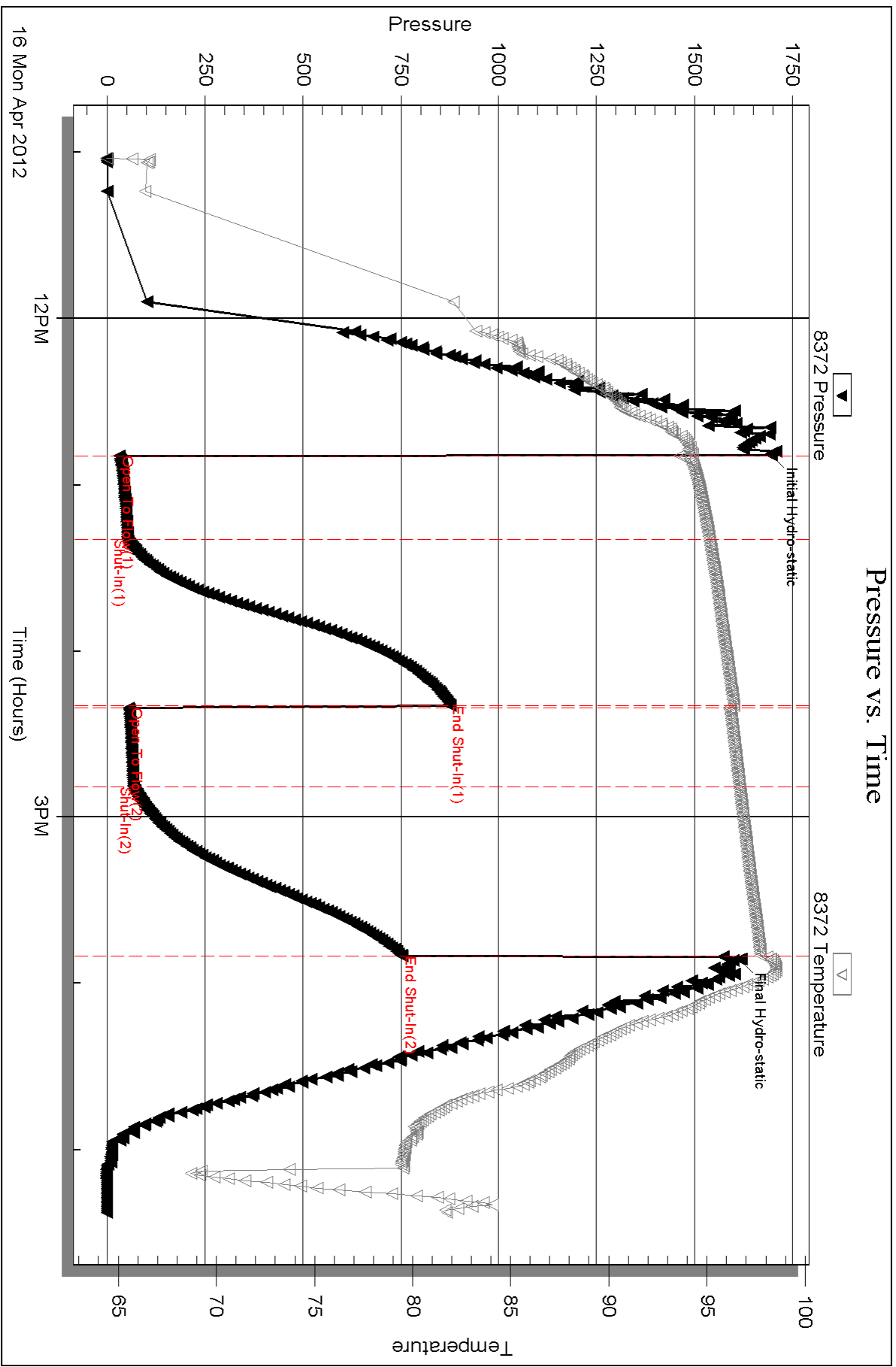
Length ft	Description	Volume bbl
80.00	SOCGM g=5% o=5% 90%	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



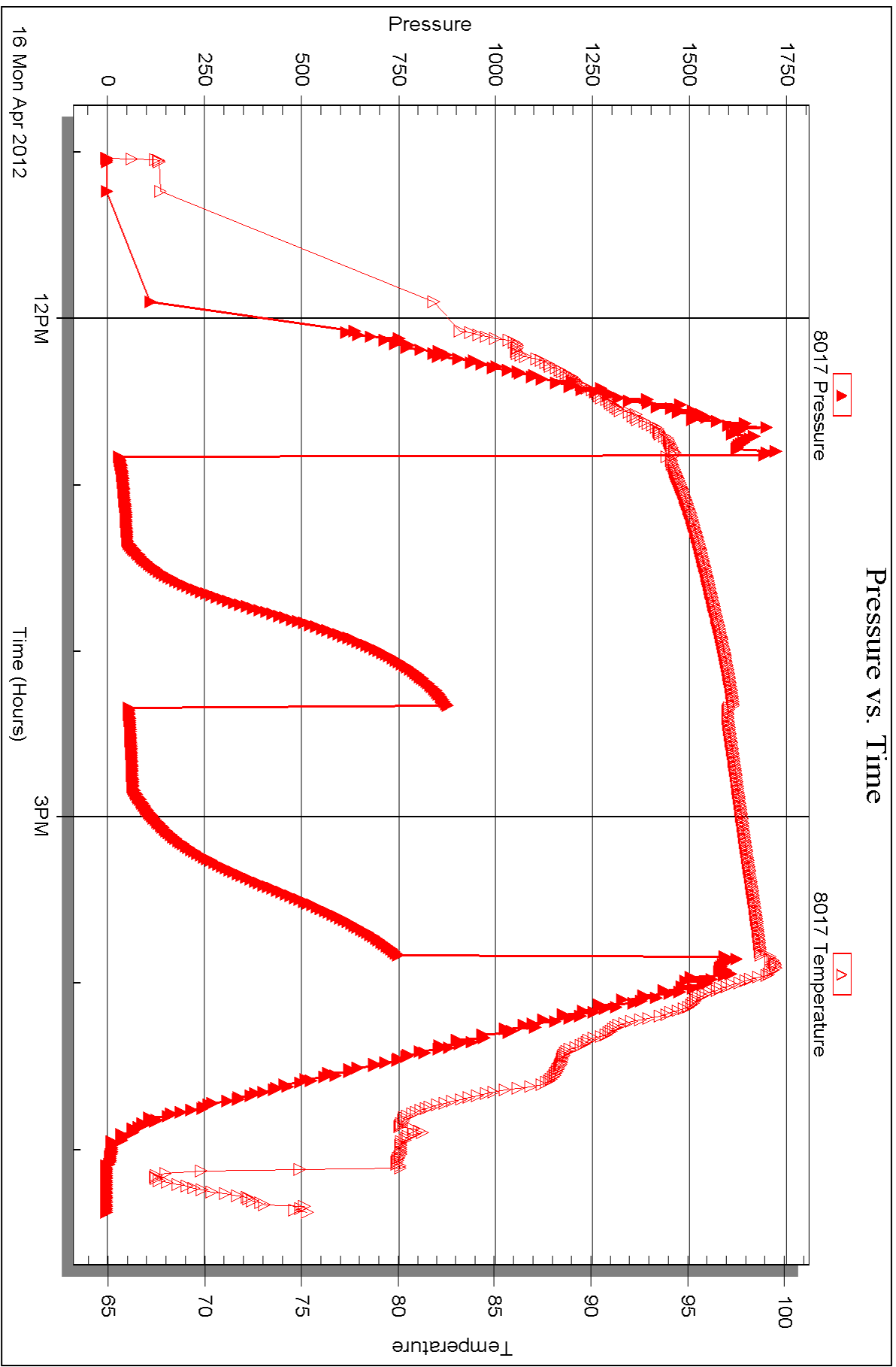
Serial #: 8017

Inside

Murfin Drilling Co.

Phillip Unit #1-19

DST Test Number: 3





DRILL STEM TEST REPORT

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

250 N. Water
STE 300
Wichita KS 67202+1216

ATTN: Robert Stolzle

Phillip Unit #1-19

19-14s-16w Ellis,KS

Start Date: 2012.04.16 @ 23:50:05

End Date: 2012.04.17 @ 05:48:20

Job Ticket #: 47261 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.04.19 @ 09:28:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling. Co.
 250 N. Water
 STE 300
 Wichita KS 67202+1216
 ATTN: Robert Stolze

19-14s-16w Ellis,KS
Phillip Unit #1-19
 Job Ticket: 47261 **DST#: 4**
 Test Start: 2012.04.16 @ 23:50:05

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:15:50
 Time Test Ended: 05:48:20
 Interval: **3406.00 ft (KB) To 3450.00 ft (KB) (TVD)**
 Total Depth: 3450.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Andy Carreira
 Unit No: 39
 Reference Elevations: 1932.00 ft (KB)
 1921.00 ft (CF)
 KB to GR/CF: 11.00 ft

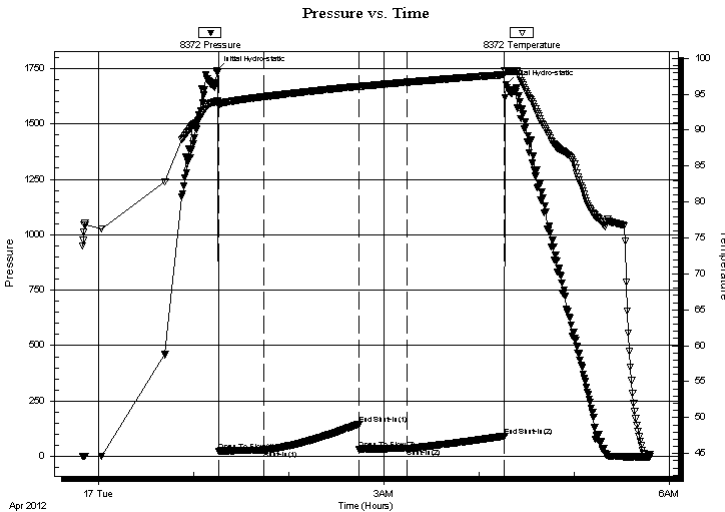
Serial #: 8372

Outside

Press @ Run Depth: 36.05 psig @ 3410.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.16 End Date: 2012.04.17 Last Calib.: 2012.04.17
 Start Time: 23:50:05 End Time: 05:48:20 Time On Btm: 2012.04.17 @ 01:14:40
 Time Off Btm: 2012.04.17 @ 04:17:09

TEST COMMENT: IF:(30min) Blow Died in 6 min.
 ISl:(60min) No Return
 FF:(30min) No Blow
 FSl:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1741.18	94.02	Initial Hydro-static
2	23.85	93.32	Open To Flow (1)
30	28.12	94.65	Shut-In(1)
90	146.64	96.09	End Shut-In(1)
90	32.88	96.03	Open To Flow (2)
120	36.05	96.66	Shut-In(2)
182	92.02	97.72	End Shut-In(2)
183	1677.26	98.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud m=100%	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling. Co.
250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolze

19-14s-16w Ellis, KS

Phillip Unit #1-19

Job Ticket: 47261

DST#: 4

Test Start: 2012.04.16 @ 23:50:05

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:15:50

Time Test Ended: 05:48:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 39

Interval: 3406.00 ft (KB) To 3450.00 ft (KB) (TVD)

Total Depth: 3450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1932.00 ft (KB)

1921.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8017

Inside

Press @ Run Depth: psig @ 3410.00 ft (KB)

Start Date: 2012.04.16

End Date: 2012.04.17

Start Time: 23:50:05

End Time: 05:48:20

Capacity: 8000.00 psig

Last Calib.: 2012.04.17

Time On Btm:

Time Off Btm:

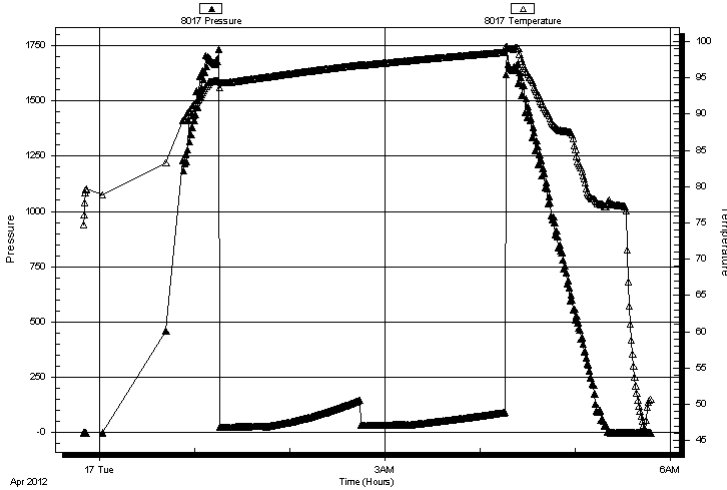
TEST COMMENT: IF:(30min) Blow Died in 6 min.

ISl:(60min) No Return

FF:(30min) No Blow

FSl:(60min) No Return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
20.00	Mud m=100%	0.10

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.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47261

DST#: 4

Test Start: 2012.04.16 @ 23:50:05

Tool Information

Drill Pipe:	Length: 3140.00 ft	Diameter: 3.80 inches	Volume: 44.05 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 264.54 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 45.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.54 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3406.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3379.00	
Shut In Tool	5.00			3384.00	
Hydraulic tool	5.00			3389.00	
Jars	5.00			3394.00	
Safety Joint	3.00			3397.00	
Packer	5.00			3402.00	28.00 Bottom Of Top Packer
Packer	4.00			3406.00	
Stubb	1.00			3407.00	
Perforations	2.00			3409.00	
Change Over Sub	1.00			3410.00	
Recorder	0.00	8017	Inside	3410.00	
Recorder	0.00	8372	Outside	3410.00	
Drill Pipe	31.00			3441.00	
Change Over Sub	1.00			3442.00	
Perforations	5.00			3447.00	
Bullnose	3.00			3450.00	44.00 Bottom Packers & Anchor
Total Tool Length:	72.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling, Co.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47261 **DST#: 4**
Test Start: 2012.04.16 @ 23:50:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 15000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

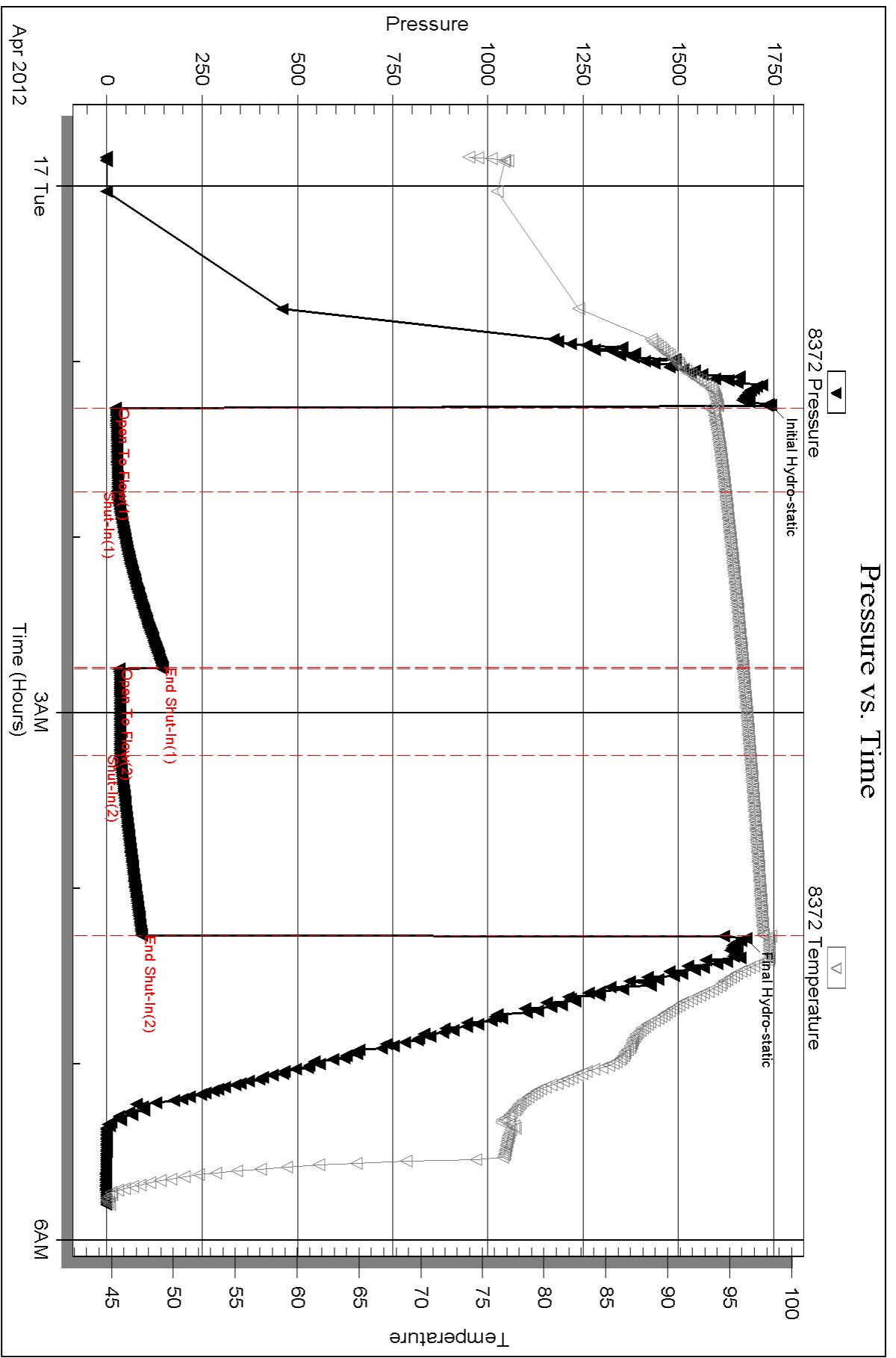
Length ft	Description	Volume bbl
20.00	Mud m=100%	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



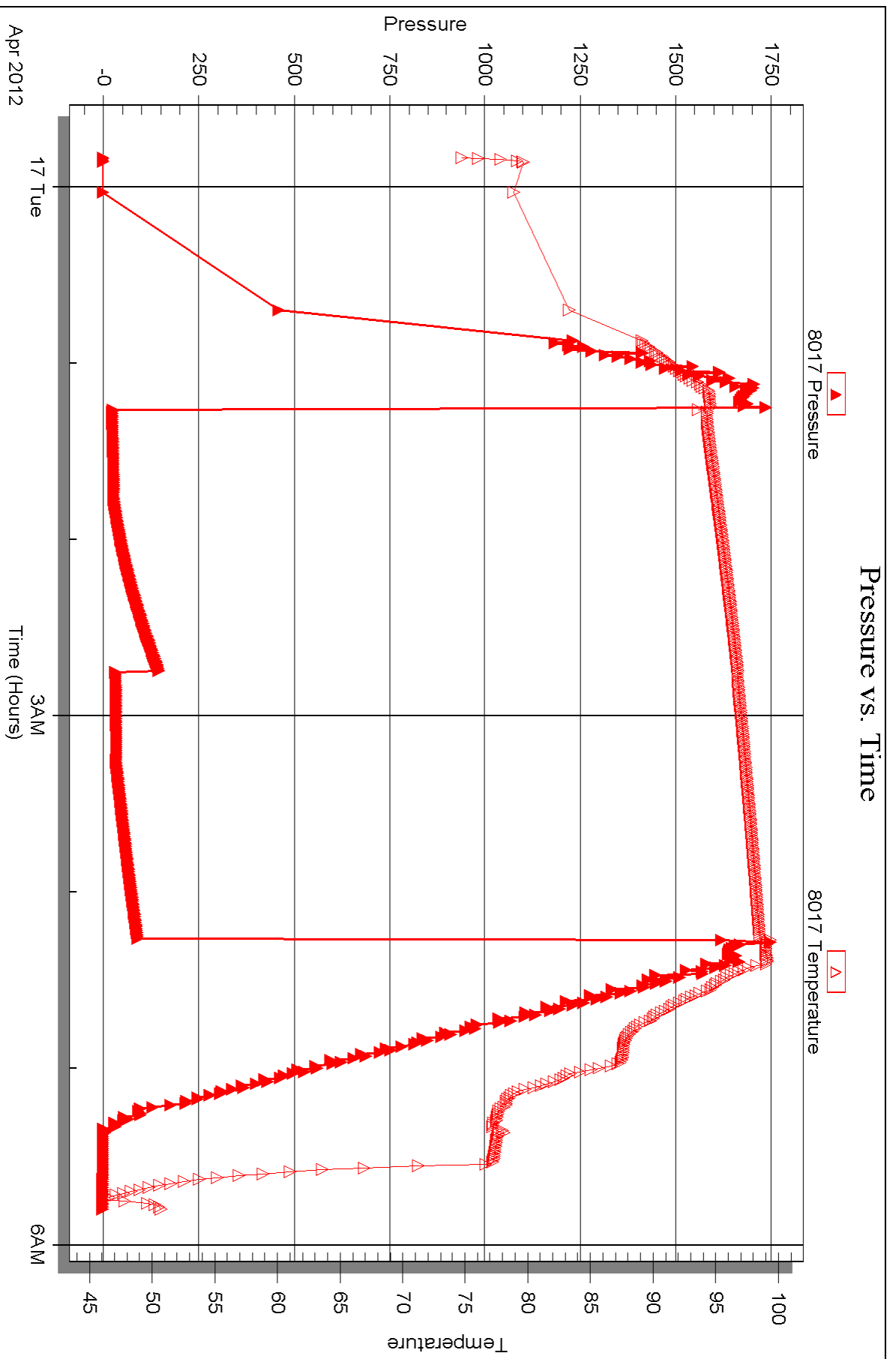
Serial #: 8017

Inside

Murfin Drilling Co.

Phillip Unit #1-19

DST Test Number: 4





DRILL STEM TEST REPORT

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

250 N. Water
STE 300
Wichita KS 67202+1216

ATTN: Robert Stolze

Phillip Unit #1-19

19-14s-16w Ellis,KS

Start Date: 2012.04.17 @ 11:02:05

End Date: 2012.04.17 @ 17:29:09

Job Ticket #: 47262 DST #: 5

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

Printed: 2012.04.19 @ 09:27:32



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling. Co.
250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolze

19-14s-16w Ellis,KS

Phillip Unit #1-19

Job Ticket: 47262 **DST#: 5**
Test Start: 2012.04.17 @ 11:02:05

GENERAL INFORMATION:

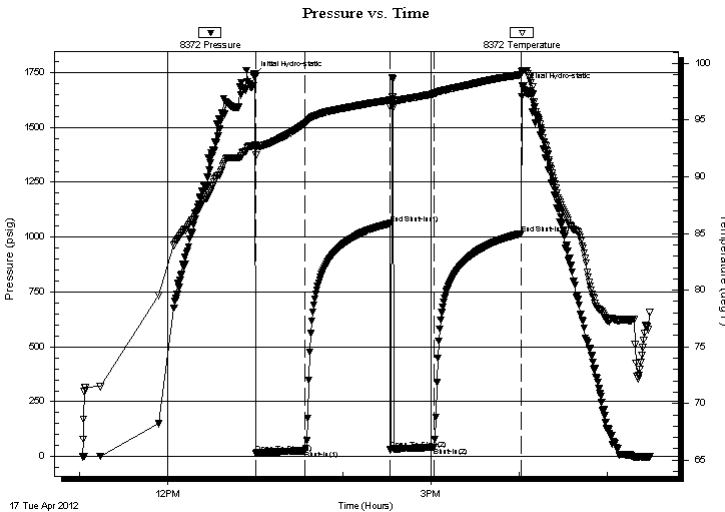
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:00:30
Time Test Ended: 17:29:09
Interval: **3447.00 ft (KB) To 3460.00 ft (KB) (TVD)**
Total Depth: 3460.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Andy Carreira
Unit No: 39
Reference Elevations: 1932.00 ft (KB)
1921.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 42.34 psig @ 3448.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.04.17 End Date: 2012.04.17 Last Calib.: 2012.04.17
Start Time: 11:02:05 End Time: 17:29:10 Time On Btm: 2012.04.17 @ 12:58:40
Time Off Btm: 2012.04.17 @ 16:02:39

TEST COMMENT: IF:(30min) Intermittent Blow Died in 15 min.
ISl:(60min) No Return
FF:(30min) No Blow , Flushed Tool, Surge, No Blow .
FSl:(60min) No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1736.64	92.74	Initial Hydro-static
2	15.23	91.89	Open To Flow (1)
36	26.73	94.73	Shut-In(1)
94	1062.13	96.77	End Shut-In(1)
94	32.51	96.21	Open To Flow (2)
124	42.34	97.32	Shut-In(2)
183	1016.15	99.01	End Shut-In(2)
184	1683.55	99.33	Final Hydro-static

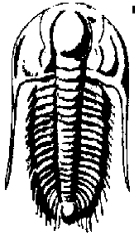
Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud w / oil spcks in tool	0.32

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling. Co.

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

19-14s-16w Ellis, KS

Phillip Unit #1-19

Job Ticket: 47262 **DST#: 5**

Test Start: 2012.04.17 @ 11:02:05

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 13:00:30
 Tester: Andy Carreira
 Time Test Ended: 17:29:09
 Unit No: 39
Interval: 3447.00 ft (KB) To 3460.00 ft (KB) (TVD)
 Reference Elevations: 1932.00 ft (KB)
 Total Depth: 3460.00 ft (KB) (TVD)
 1921.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 11.00 ft

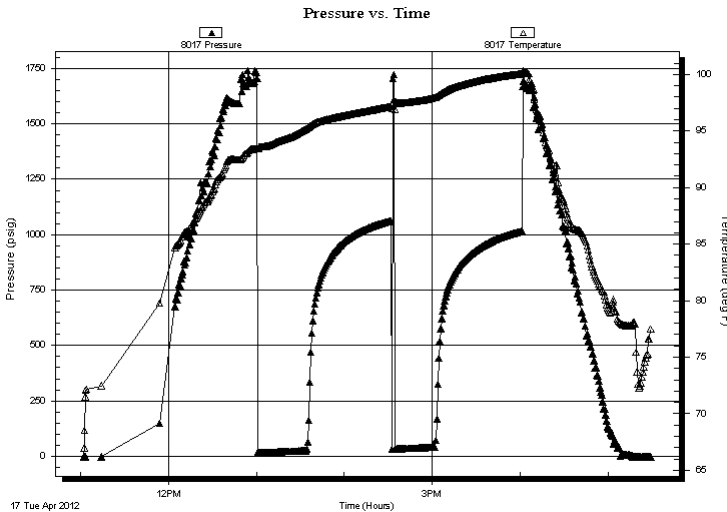
Serial #: 8017

Inside

Press @ Run Depth: psig @ 3448.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.17 End Date: 2012.04.17 Last Calib.: 2012.04.17
 Start Time: 11:02:05 End Time: 17:29:10 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF:(30min) Intermittent Blow Died in 15 min.
 ISl:(60min) No Return
 FF:(30min) No Blow, Flushed Tool, Surge, No Blow.
 FSl:(60min) No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud w / oil spcks in tool	0.32

* 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.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47262

DST#: 5

Test Start: 2012.04.17 @ 11:02:05

Tool Information

Drill Pipe:	Length: 3174.00 ft	Diameter: 3.80 inches	Volume: 44.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 264.54 ft	Diameter: 2.25 inches	Volume: 1.30 bbl	Weight to Pull Loose: 74000.00 lb
			<u>Total Volume: 45.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.54 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3447.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3420.00	
Shut In Tool	5.00			3425.00	
Hydraulic tool	5.00			3430.00	
Jars	5.00			3435.00	
Safety Joint	3.00			3438.00	
Packer	5.00			3443.00	28.00 Bottom Of Top Packer
Packer	4.00			3447.00	
Stubb	1.00			3448.00	
Recorder	0.00	8017	Inside	3448.00	
Recorder	0.00	8372	Outside	3448.00	
Perforations	9.00			3457.00	
Bullnose	3.00			3460.00	13.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling, Co.

19-14s-16w Ellis,KS

250 N. Water
STE 300
Wichita KS 67202+1216
ATTN: Robert Stolzle

Phillip Unit #1-19

Job Ticket: 47262 **DST#: 5**
Test Start: 2012.04.17 @ 11:02:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 18000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud w / oil spcks in tool	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

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

Laboratory Name: Laboratory Location:

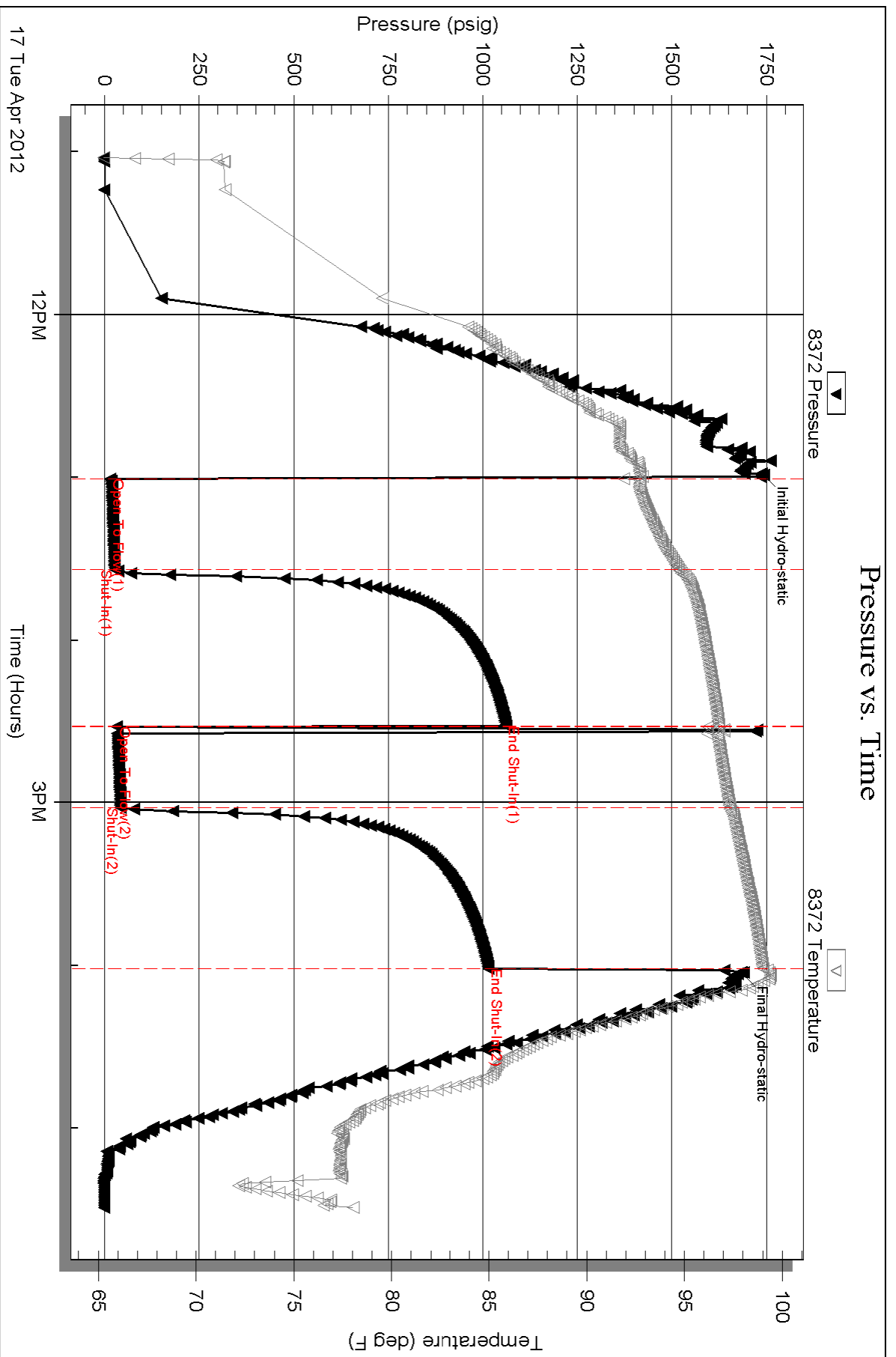
Recovery Comments:

Serial #: 8372

Outside Murfin Drilling Co.

Phillip Unit #1-19

DST Test Number: 5



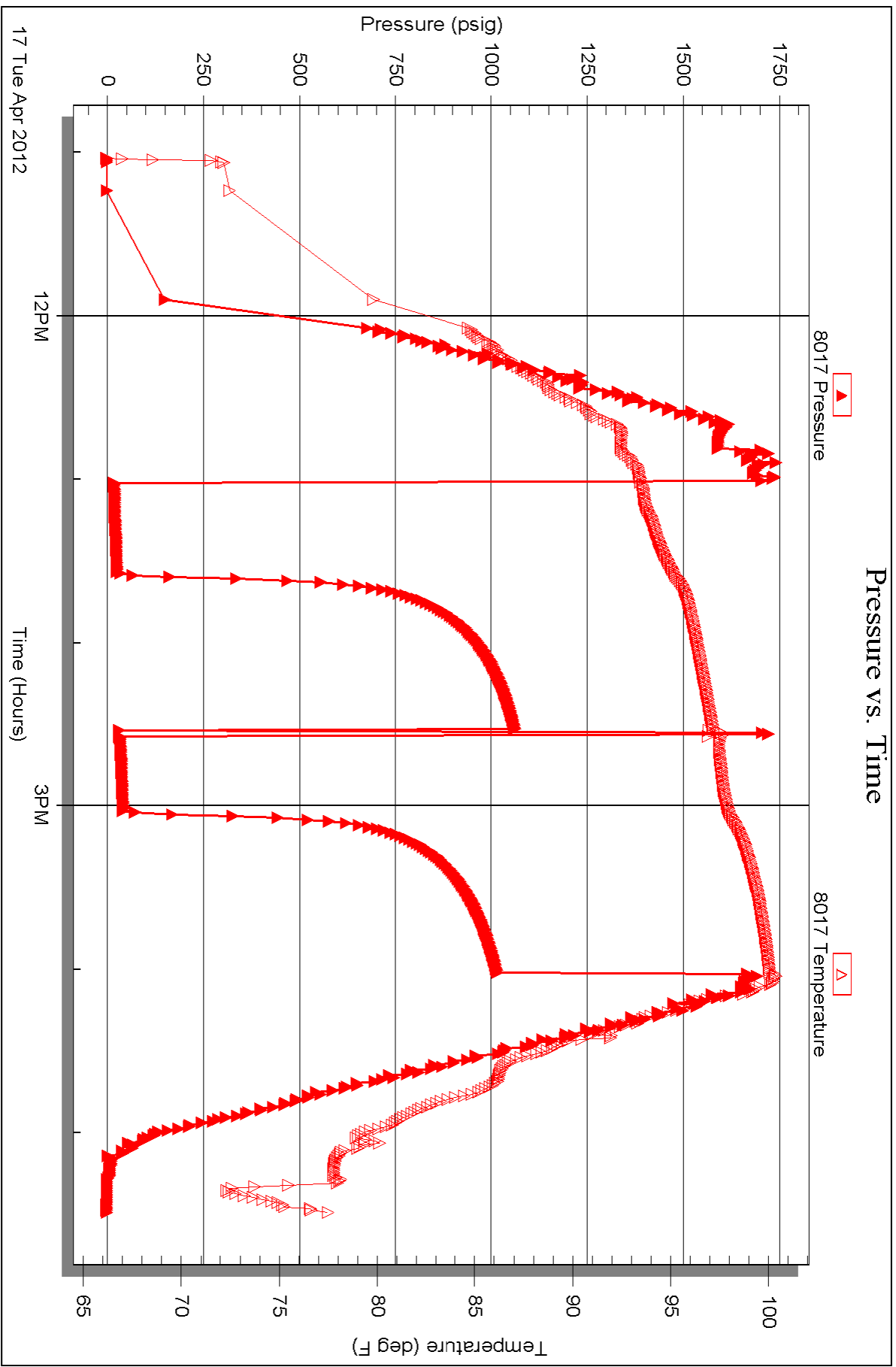
Serial #: 8017

Inside

Murfin Drilling Co.

Phillip Unit #1-19

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 19 2012

Test Ticket

NO. 47258

Well Name & No. Phillip Unit 1-19 Test No. 1 Date 4-15-12
 Company MurFin DeLg. Co Elevation 1932 KB 1921 GL
 Address 250 N. Water STE 300 Wichita Ks 67202+1216
 Co. Rep / Geo. Robert Stolze Rig MurFin 21
 Location: Sec. 19 Twp. 14s Rge. 16W Co. Ellis State Ks

Interval Tested 3175-3255 Zone Tested LKC "A-D"
 Anchor Length 80 Drill Pipe Run 2890 Mud Wt. 9.1
 Top Packer Depth 3170 Drill Collars Run 264.54 Vis 51
 Bottom Packer Depth 3175 Wt. Pipe Run — WL 8.0
 Total Depth 3255 Chlorides 6800 ppm System LCM 3#

Blow Description FF: 1.5" blow
6ST: NO RETURN
FF: 1" blow
7ST: NO RETURN

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Feet of HOCBM</u>	<u>10</u>	<u>30</u>	<u>60</u>	<u>60</u>
<u>60</u>	<u>Feet of OCM</u>	<u>10</u>	<u>10</u>	<u>90</u>	<u>90</u>
<u>120</u>	<u>Feet of OCWM</u>	<u>10</u>	<u>20</u>	<u>70</u>	<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 200' BHT 99°
 (A) Initial Hydrostatic 1564
 (B) First Initial Flow 20
 (C) First Final Flow 69
 (D) Initial Shut-In 650
 (E) Second Initial Flow 75
 (F) Second Final Flow 123
 (G) Final Shut-In 646
 (H) Final Hydrostatic 1506

Gravity API RW @ ° F Chlorides ppm
 Test 1150'
 Jars 250'
 Safety Joint 75'
 Circ Sub
 Hourly Standby
 Mileage 30 RT 46.00
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1521.50

T-On Location 01:49
 T-Started 02:24
 T-Open 04:10
 T-Pulled 08:10
 T-Out 10:06
 Comments Got stuck 1 mile from rig at 23:23
Wait on cat
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1521.50

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

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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 19 2012
BY: _____

Test Ticket

NO. 47259

Well Name & No. Phillips Unit 1-19 Test No. 2 Date 4-15-12
 Company Murfin Drilling Co Inc Elevation 1932 KB 1921 GL
 Address 250 N. Water STE 300 Wichita Ks. 67202+1216
 Co. Rep / Geo. Robert Stoltz Rig Murfin 21
 Location: Sec. 19 Twp. 14s Rge. 16w Co. Ellis State Ks.

Interval Tested 3256-3300 Zone Tested LKC "E, F + G"
 Anchor Length 44' Drill Pipe Run 2984 Mud Wt. 9.1
 Top Packer Depth 3251 Drill Collars Run 264.54 Vis 5
 Bottom Packer Depth 3256 Wt. Pipe Run 0 WL 8.0
 Total Depth 3300 Chlorides 6800 ppm System LCM 3#

Blow Description IF: Blow died in 18 min
ISL: No Return
FF: No Blow
FSL: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</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 Total 65 BHT 97° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1610 Test ← 1150 T-On Location 16:14
 (B) First Initial Flow 19 Jars ← 250 T-Started 16:37
 (C) First Final Flow 32 Safety Joint ← 75' T-Open 18:13
 (D) Initial Shut-In 614 Circ Sub _____ T-Pulled 21:22
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 23:02
 (F) Second Final Flow 45 Mileage ← 30 RT 416.50 Comments IF: = 37 min instead
 (G) Final Shut-In 567 Sampler _____ of 30 min. Rotary chain
 (H) Final Hydrostatic 1590 Straddle _____ Broke.

Initial Open 37 Ruined Shale Packer _____
 Initial Shut-In 60 Ruined Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 60 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1521.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1521.50

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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 19 2012

Test Ticket

NO. 47260

Well Name & No. Phillips Unit #1-19 Test No. 3 Date 4-16-12
 Company Murfin Delq. Co. Inc Elevation 1932 KB 1921 GL
 Address 250 N Water STE 300 Wichita KS 67202+1216
 Co. Rep / Geo. Robert Stojzic Rig Murfin 21
 Location: Sec. 19 Twp. 14s Rge. 16w Co. Ellis State Ks

Interval Tested 3315-3420 Zone Tested LKC "H-K"
 Anchor Length 105' Drill Pipe Run 3043 Mud Wt. 9.2
 Top Packer Depth 3310 Drill Collars Run 264.54 Vis 50
 Bottom Packer Depth 3315 Wt. Pipe Run — WL 9.2
 Total Depth 3420 Chlorides 15000 ppm System LCM 1#

Blow Description IF: Blow died in 20min.
ISI: NO Return
FP: ~~10~~ ~~10~~ Surface blow
FSI: NO Return

Rec	Feet of	%gas	%oil	%water	%mud
80	SOCBM	5	5		90
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 80 BHT 97° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1694</u>	<input checked="" type="checkbox"/> Test <u>← 1150'</u>	T-On Location <u>10:32</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>← 280'</u>	T-Started <u>11:02</u>
(C) First Final Flow <u>52</u>	<input checked="" type="checkbox"/> Safety Joint <u>← 75'</u>	T-Open <u>12:50</u>
(D) Initial Shut-In <u>876</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>15:50</u>
(E) Second Initial Flow <u>53</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:23</u>
(F) Second Final Flow <u>60</u>	<input checked="" type="checkbox"/> Mileage <u>← 30 RT 46.50</u>	Comments
(G) Final Shut-In <u>752</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1614</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input checked="" type="checkbox"/> Ruined Packer <u>← 320'</u>
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>320</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1841.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1521.50</u>	

Approved By _____ Our Representative Andy Carr

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 19 2012
BY: _____

Test Ticket

NO. 47261

Well Name & No. Phillip Unit #1-19 Test No. 4 Date 4-16-12
 Company Murfin Drilling Co Inc. Elevation 1932 KB 1921 GL
 Address 250 N Water STE 300 Wichita Ks. 67202+1216
 Co. Rep / Geo. Robert Stolze Rig Murfin 21
 Location: Sec. 19 Twp. 14s Rge. 16w Co. Ellis State Ks.

Interval Tested 3406 - 3450 Zone Tested Arbuckle
 Anchor Length 44' Drill Pipe Run 3140 Mud Wt. 9.2
 Top Packer Depth 3401 Drill Collars Run 264.54 Vis 50
 Bottom Packer Depth 3406 Wt. Pipe Run — WL 9.2
 Total Depth 3450 Chlorides 15000 ppm System LCM 1#

Blow Description IF: Blow died in 6min.
ISI: No Return
FF: No Blow
FBI: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</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 Total 20' BHT 97° Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1741 Test @ 1150' T-On Location 23:32
 (B) First Initial Flow 23 Jars @ 250' T-Started 23:50
 (C) First Final Flow 28 Safety Joint @ 75' T-Open 01:15
 (D) Initial Shut-In 146 Circ Sub T-Pulled 04:15
 (E) Second Initial Flow 32 Hourly Standby T-Out 05:48
 (F) Second Final Flow 46 Mileage @ SDRT 4650 Comments _____
 (G) Final Shut-In 92 Sampler _____
 (H) Final Hydrostatic 1677 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30 Extra Recorder _____
 Initial Shut-In 60 Day Standby _____
 Final Flow 30 Accessibility _____
 Final Shut-In 60 Sub Total 1521.50 MP/DST Disc't _____

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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
APR 19 2012
BY: _____

Test Ticket

NO. 47262

Well Name & No. Phillip Unit #1-19 Test No. 5 Date 4-17-12
 Company Murfin Drilling Co. Inc. Elevation 1932 KB 1921 GL
 Address 250 N Water St E 300 Wichita, Ks. 67202+1216
 Co. Rep / Geo. Robert Stolze Rig Murfin 21
 Location: Sec. 19 Twp. 14s Rge. 16w Co. Ellis State Ks.

Interval Tested 3447-3460 Zone Tested Arbuckle 1/2
 Anchor Length 13' Drill Pipe Run 3174 Mud Wt. 9.0
 Top Packer Depth 3442 Drill Collars Run 264.54 Vis 50
 Bottom Packer Depth 3447 Wt. Pipe Run — WL 10.8
 Total Depth 3460 Chlorides 18000 ppm System LCM 1#

Blow Description IP: Intermittent blow died in 15 min.
ISL: No Return
FP: No blow, Flushed tool, surge, No blow
FSL: No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>Mud w/oil speck in tool</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 65 BHT 99° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1736 Test ← 1150 T-On Location 10:38
 (B) First Initial Flow 15 Jars ← 250 T-Started 11:02
 (C) First Final Flow 26 Safety Joint ← 75 T-Open 13:02
 (D) Initial Shut-In 1062 Circ Sub T-Pulled 16:02
 (E) Second Initial Flow 32 Hourly Standby T-Out 17:30
 (F) Second Final Flow 42 Mileage ← 30.5 46.50 Comments _____
 (G) Final Shut-In 1016 Sampler _____
 (H) Final Hydrostatic 1683 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 30 Extra Packer _____
 Initial Shut-In 60 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1521.50

Approved By _____ Our Representative [Signature]
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