



DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352
Russell KS 67665 + 2635

ATTN: John O Farmer IV

Dreiling B #1

15-13s-17w Ellis,KS

Start Date: 2012.08.27 @ 02:23:01

End Date: 2012.08.27 @ 09:00:31

Job Ticket #: 48533 DST #: 1

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

Printed: 2012.08.30 @ 11:51:02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48533 **DST#: 1**
 Test Start: 2012.08.27 @ 02:23:01

GENERAL INFORMATION:

Formation: **LKC-E**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:10:01
 Time Test Ended: 09:00:31
 Interval: **3337.00 ft (KB) To 3358.00 ft (KB) (TVD)**
 Total Depth: 3358.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2003.00 ft (KB)
 1995.00 ft (CF)
 KB to GR/CF: 8.00 ft

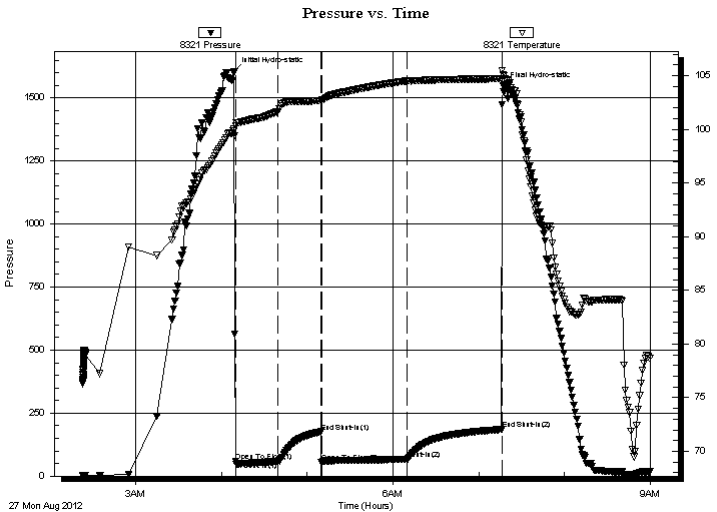
Serial #: 8321

Inside

Press @ Run Depth: 67.44 psig @ 3340.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.27 End Date: 2012.08.27 Last Calib.: 2012.08.27
 Start Time: 02:23:02 End Time: 08:59:31 Time On Btm: 2012.08.27 @ 04:09:01
 Time Off Btm: 2012.08.27 @ 07:17:01

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
 ISI-Dead no blow back
 FFP-Good blow BOB in 44 min
 FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1606.04	100.06	Initial Hydro-static
1	58.93	100.37	Open To Flow (1)
31	58.05	101.68	Shut-In(1)
61	175.73	102.68	End Shut-In(1)
61	53.32	102.70	Open To Flow (2)
121	67.44	104.52	Shut-In(2)
187	185.24	104.74	End Shut-In(2)
188	1546.82	105.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	Mud w ith oil spots	0.15
63.00	MW w ith oil spots 35%M 65 %W	0.88
0.00	283-GIP	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

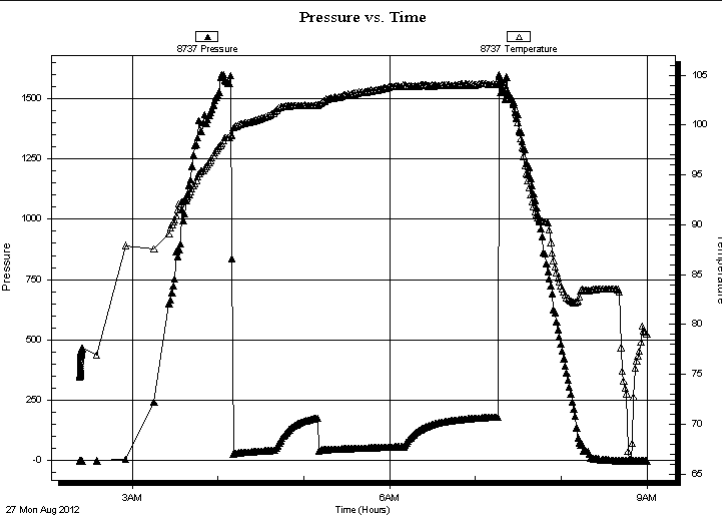
15-13s-17w Ellis, KS
Drilling B #1
 Job Ticket: 48533 **DST#: 1**
 Test Start: 2012.08.27 @ 02:23:01

GENERAL INFORMATION:

Formation: LKC-E			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 04:10:01		Tester: Jeff Brown	
Time Test Ended: 09:00:31		Unit No: 44	
Interval: 3337.00 ft (KB) To 3358.00 ft (KB) (TVD)		Reference Elevations: 2003.00 ft (KB)	
Total Depth: 3358.00 ft (KB) (TVD)		1995.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 8.00 ft	

Serial #: 8737	Outside		
Press @RunDepth: psig @ 3340.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2012.08.27	End Date: 2012.08.27	Last Calib.: 2012.08.27	
Start Time: 02:23:09	End Time: 08:59:38	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IFP-Strong blow BOB in 2 1/2 min
 ISI-Dead no blow back
 FFP-Good blow BOB in 44 min
 FSI-Dead no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
31.00	Mud w ith oil spots	0.15
63.00	MW w ith oil spots 35%M 65 %W	0.88
0.00	283-GIP	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48533 **DST#: 1**
 Test Start: 2012.08.27 @ 02:23:01

Tool Information

Drill Pipe:	Length: 3299.00 ft	Diameter: 3.80 inches	Volume: 46.28 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	69000.00 lb
			<u>Total Volume: 46.43 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3337.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 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
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Change Over Sub	1.00			3318.00	
Shut In Tool	5.00			3323.00	
Hydraulic tool	5.00			3328.00	
Packer	4.00			3332.00	20.00 Bottom Of Top Packer
Packer	5.00			3337.00	
Stubb	1.00			3338.00	
Perforations	2.00			3340.00	
Recorder	0.00	8321	Inside	3340.00	
Recorder	0.00	8737	Outside	3340.00	
Perforations	15.00			3355.00	
Bullnose	3.00			3358.00	21.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc

15-13s-17w Ellis,KS

PO Box 352
Russell KS 67665 + 2635

Dreiling B #1

Job Ticket: 48533

DST#: 1

ATTN: John O Farmer IV

Test Start: 2012.08.27 @ 02:23:01

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 8.77 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	Mud w ith oil spots	0.152
63.00	MW w ith oil spots 35%M 65 %W	0.884
0.00	283-GIP	0.000

Total Length: 94.00 ft Total Volume: 1.036 bbl

Num Fluid Samples: 0

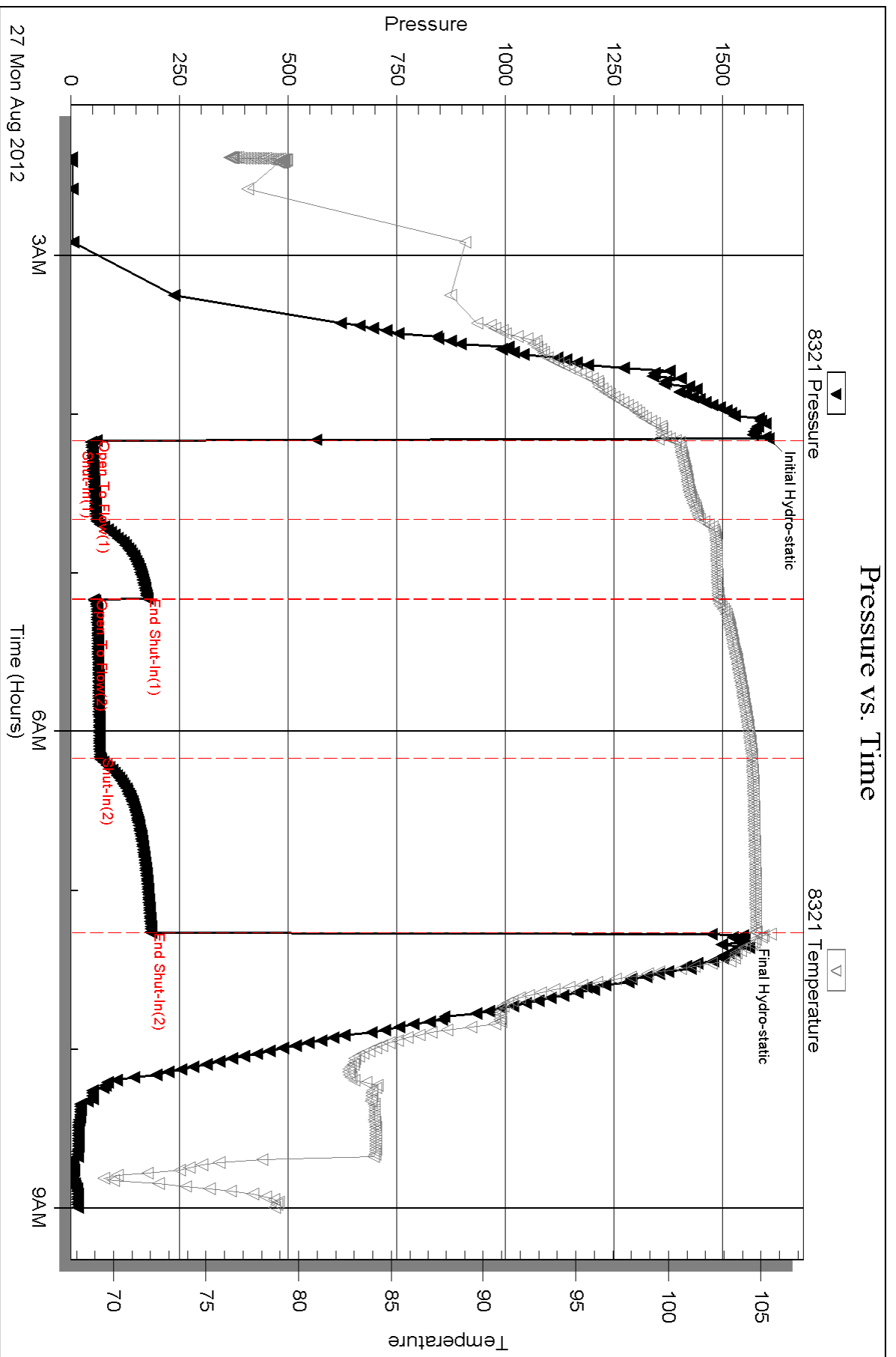
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

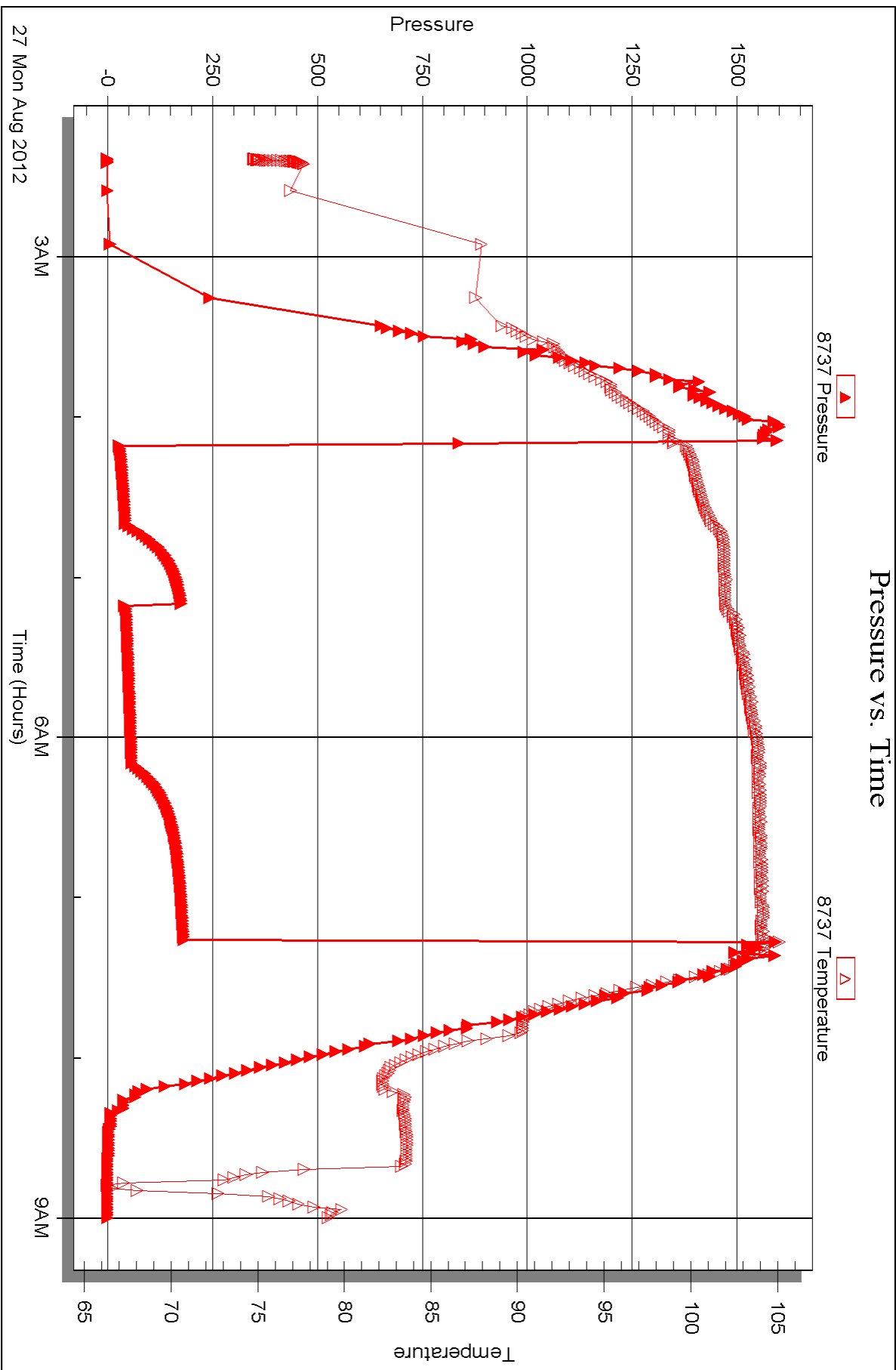


Serial #: 8737

Outside John O Farmer, Inc

Drilling B #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352
Russell KS 67665 + 2635

ATTN: John O Farmer IV

Dreiling B #1

15-13s-17w Ellis,KS

Start Date: 2012.08.27 @ 15:57:54

End Date: 2012.08.27 @ 21:30:54

Job Ticket #: 48534 DST #: 2

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

Printed: 2012.08.30 @ 11:50:19

John O Farmer, Inc
15-13s-17w Ellis,KS
Dreiling B #1
DST # 2
LKC F-G
2012.08.27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48534 **DST#: 2**
 Test Start: 2012.08.27 @ 15:57:54

GENERAL INFORMATION:

Formation: **LKC F-G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:54:54
 Time Test Ended: 21:30:54
Interval: 3355.00 ft (KB) To 3398.00 ft (KB) (TVD)
 Total Depth: 3398.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2003.00 ft (KB)
 1995.00 ft (CF)
 KB to GR/CF: 8.00 ft

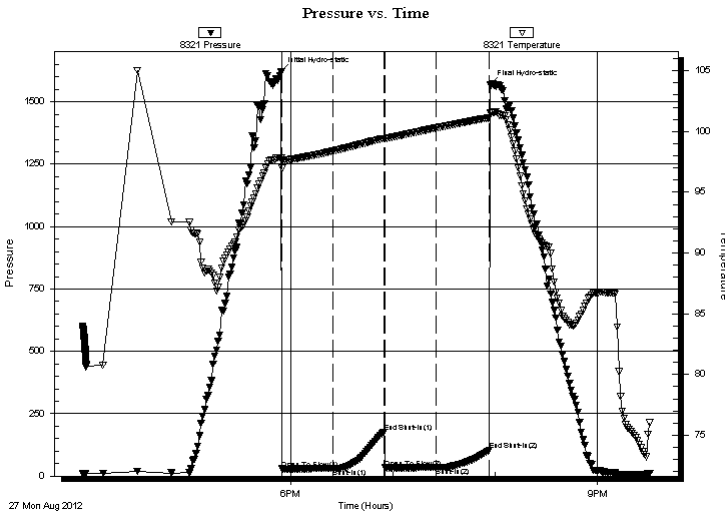
Serial #: 8321

Inside

Press @ RunDepth: 34.42 psig @ 3359.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.27 End Date: 2012.08.27 Last Calib.: 2012.08.27
 Start Time: 15:57:55 End Time: 21:30:54 Time On Btm: 2012.08.27 @ 17:54:24
 Time Off Btm: 2012.08.27 @ 19:56:54

TEST COMMENT: IFP=Weak surface blow died out in 20 min
 ISI=Dead no blow back
 FFP=Dead no blow
 FSI=Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.34	97.86	Initial Hydro-static
1	28.70	96.98	Open To Flow (1)
31	31.13	98.40	Shut-In(1)
60	176.65	99.44	End Shut-In(1)
61	32.93	99.43	Open To Flow (2)
91	34.42	100.29	Shut-In(2)
122	104.47	101.13	End Shut-In(2)
123	1569.22	101.56	Final Hydro-static

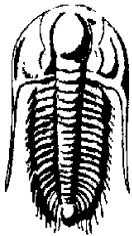
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with a scum of oil 100%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis, KS
Drilling B #1
 Job Ticket: 48534 **DST#: 2**
 Test Start: 2012.08.27 @ 15:57:54

GENERAL INFORMATION:

Formation: LKC F-G		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 17:54:54		Tester: Jeff Brown
Time Test Ended: 21:30:54		Unit No: 44
Interval: 3355.00 ft (KB) To 3398.00 ft (KB) (TVD)		Reference Elevations: 2003.00 ft (KB)
Total Depth: 3398.00 ft (KB) (TVD)		1995.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 8.00 ft

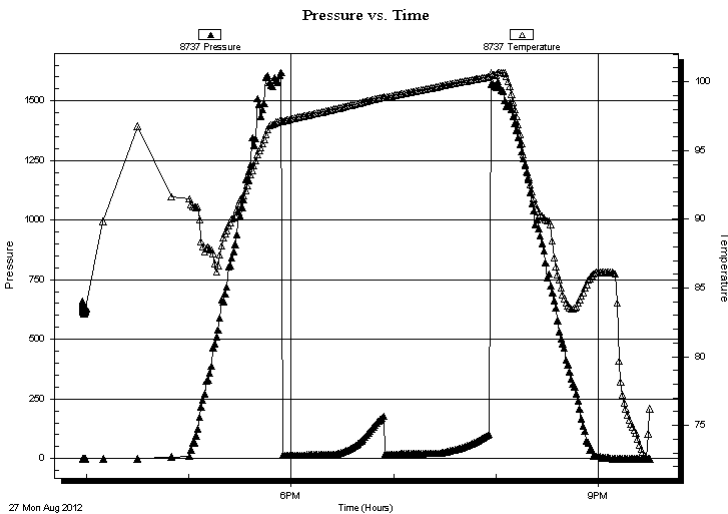
Serial #: 8737

Outside

Press @ Run Depth: psig @ 3359.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2012.08.27 End Date: 2012.08.27	Last Calib.: 2012.08.27
Start Time: 15:57:39 End Time: 21:30:38	Time On Btm:
	Time Off Btm:

TEST COMMENT: IFP=Weak surface blow died out in 20 min
 ISI=Dead no blow back
 FFP=Dead no blow
 FSI=Dead no blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with a scum of oil 100%M	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

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48534 **DST#: 2**
 Test Start: 2012.08.27 @ 15:57:54

Tool Information

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	58000.00 lb
			<u>Total Volume: 46.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3355.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	63.00 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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Change Over Sub	1.00			3336.00	
Shut In Tool	5.00			3341.00	
Hydraulic tool	5.00			3346.00	
Packer	4.00			3350.00	20.00 Bottom Of Top Packer
Packer	5.00			3355.00	
Stubb	1.00			3356.00	
Perforations	2.00			3358.00	
Change Over Sub	1.00			3359.00	
Recorder	0.00	8321	Inside	3359.00	
Recorder	0.00	8737	Outside	3359.00	
Drill Pipe	30.00			3389.00	
Change Over Sub	1.00			3390.00	
Perforations	5.00			3395.00	
Bullnose	3.00			3398.00	43.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48534 **DST#: 2**
 Test Start: 2012.08.27 @ 15:57:54

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: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud with a scum of oil 100%M	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:

Serial #: 8321

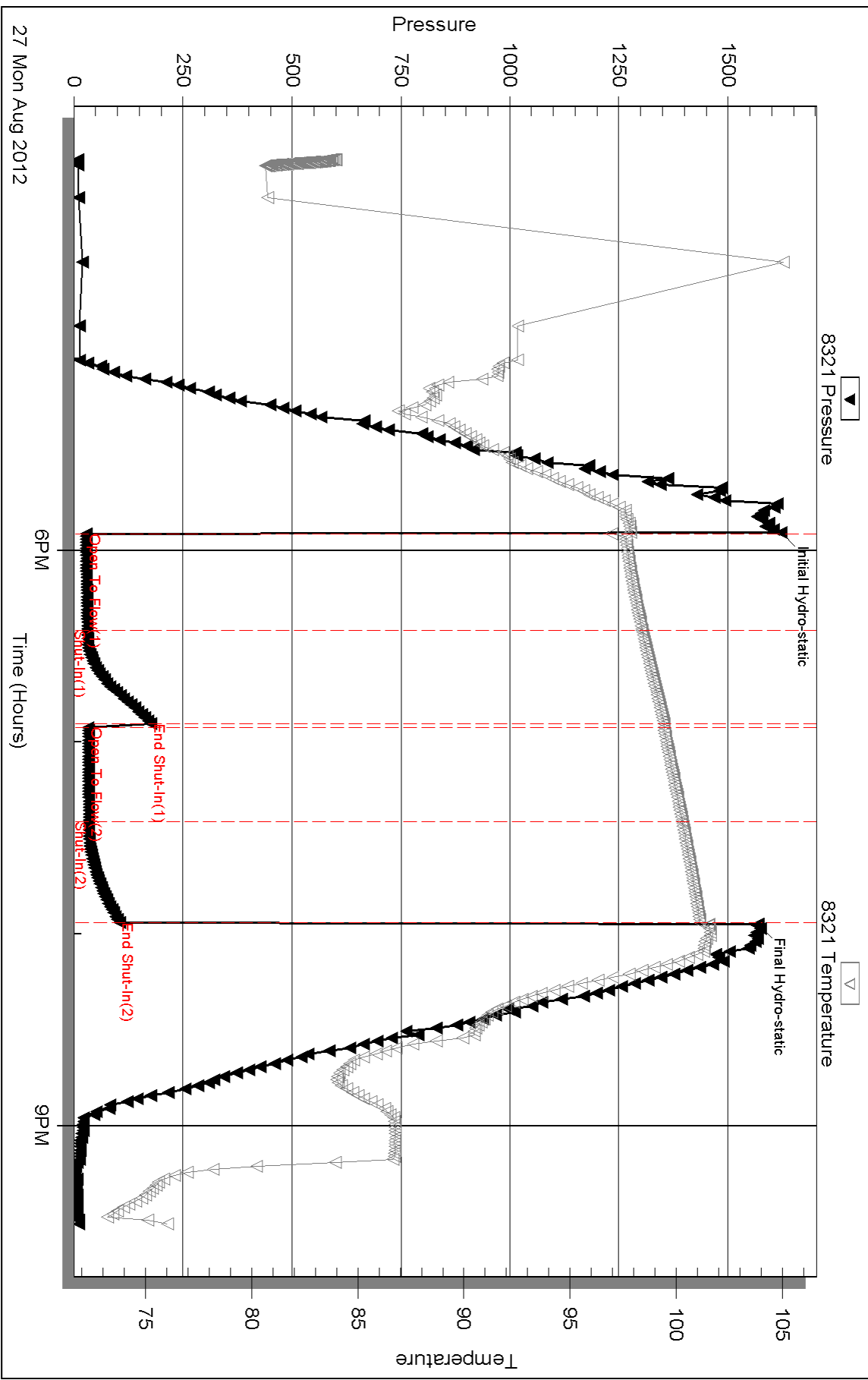
Inside

John O Farmer, Inc

Drilling B #1

DST Test Number: 2

Pressure vs. Time

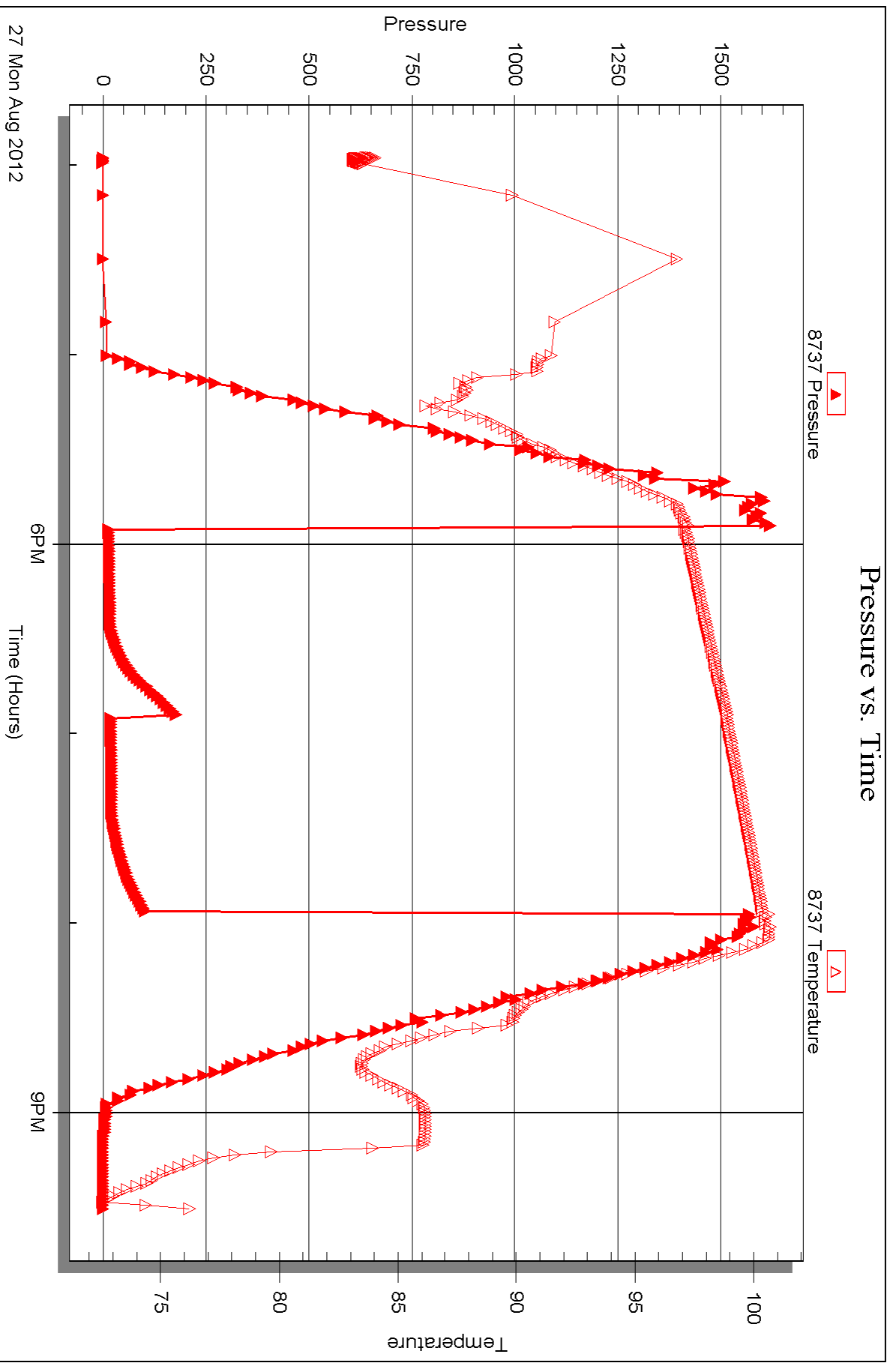


Serial #: 8737

Outside John O Farmer, Inc

Drilling B #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352
Russell KS 67665 + 2635

ATTN: John O Farmer IV

Dreiling B #1

15-13s-17w Ellis,KS

Start Date: 2012.08.28 @ 18:00:16

End Date: 2012.08.28 @ 23:14:16

Job Ticket #: 48535 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.30 @ 11:49:38



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48535 **DST#: 3**
 Test Start: 2012.08.28 @ 18:00:16

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:38:16
 Time Test Ended: 23:14:16
 Interval: **3508.00 ft (KB) To 3550.00 ft (KB) (TVD)**
 Total Depth: 3603.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2003.00 ft (KB)
 1995.00 ft (CF)
 KB to GR/CF: 8.00 ft

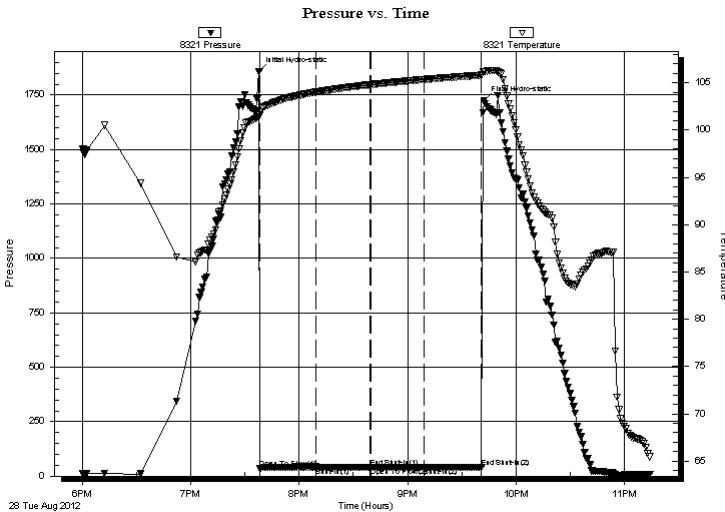
Serial #: 8321

Inside

Press @ Run Depth: 40.83 psig @ 3544.00 ft (KB)
 Start Date: 2012.08.28 End Date: 2012.08.28
 Start Time: 18:00:17 End Time: 23:14:16
 Capacity: 8000.00 psig
 Last Calib.: 2012.08.28
 Time On Btm: 2012.08.28 @ 19:37:46
 Time Off Btm: 2012.08.28 @ 21:42:16

TEST COMMENT: IFP-Weak surface blow built to 1" died back to 3/4"
 ISI-Dead no blow back
 FFP-Dead no blow
 FSI-Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1859.25	101.67	Initial Hydro-static
1	34.48	101.57	Open To Flow (1)
32	42.46	104.02	Shut-In(1)
62	41.24	104.80	End Shut-In(1)
62	41.20	104.81	Open To Flow (2)
92	40.83	105.35	Shut-In(2)
123	40.15	105.81	End Shut-In(2)
125	1726.17	106.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48535 **DST#: 3**
 Test Start: 2012.08.28 @ 18:00:16

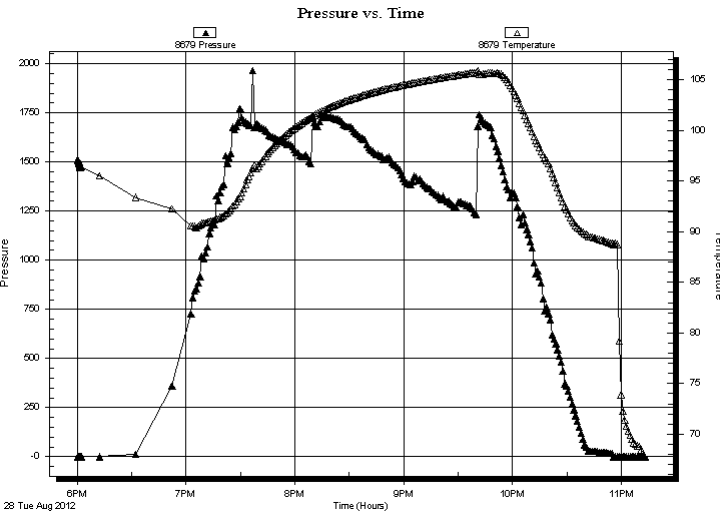
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:38:16
 Time Test Ended: 23:14:16
Interval: 3508.00 ft (KB) To 3550.00 ft (KB) (TVD)
 Total Depth: 3603.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2003.00 ft (KB)
 1995.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8679 Below (Straddle)

Press @ Run Depth: psig @ 3552.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.28 End Date: 2012.08.28 Last Calib.: 2012.08.28
 Start Time: 18:00:21 End Time: 23:12:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP-Weak surface blow built to 1" died back to 3/4"
 ISI-Dead no blow back
 FFP-Dead no blow
 FSI-Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

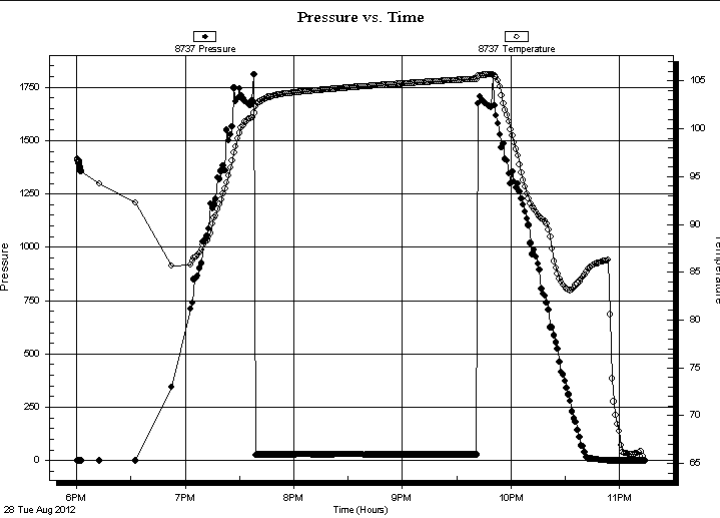
15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48535 **DST#: 3**
 Test Start: 2012.08.28 @ 18:00:16

GENERAL INFORMATION:

Formation: Arbuckle			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Straddle (Reset)	
Time Tool Opened: 19:38:16		Tester: Jeff Brown	
Time Test Ended: 23:14:16		Unit No: 44	
Interval: 3508.00 ft (KB) To 3550.00 ft (KB) (TVD)		Reference Elevations: 2003.00 ft (KB)	
Total Depth: 3603.00 ft (KB) (TVD)		1995.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 8.00 ft	

Serial #: 8737	Outside		
Press @ Run Depth: psig @	3544.00 ft (KB)	Capacity: 8000.00 psig	
Start Date: 2012.08.28	End Date: 2012.08.28	Last Calib.: 2012.08.28	
Start Time: 18:00:30	End Time: 23:14:29	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IFP-Weak surface blow built to 1" died back to 3/4"
 ISI-Dead no blow back
 FFP-Dead no blow
 FSI-Dead no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud	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

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48535 **DST#: 3**
 Test Start: 2012.08.28 @ 18:00:16

Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 bbl	Tool Weight: 2400.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3508.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	3550.00 ft			
Interval between Packers:	42.00 ft			
Tool Length:	115.00 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			3489.00	
Shut In Tool	5.00			3494.00	
Hydraulic tool	5.00			3499.00	
Packer	4.00			3503.00	20.00 Bottom Of Top Packer
Packer	5.00			3508.00	
Stubb	1.00			3509.00	
Perforations	2.00			3511.00	
Change Over Sub	1.00			3512.00	
Drill Pipe	31.00			3543.00	
Change Over Sub	1.00			3544.00	
Recorder	0.00	8321	Inside	3544.00	
Recorder	0.00	8737	Outside	3544.00	
Perforations	2.00			3546.00	
Blank Off Sub	1.00			3547.00	
Stubb	3.00			3550.00	42.00 Tool Interval
Packer	1.00			3551.00	
Stubb	1.00			3552.00	
Recorder	0.00	8679	Below	3552.00	
Change Over Sub	1.00			3553.00	
Drill Pipe	31.00			3584.00	
Change Over Sub	1.00			3585.00	
Perforations	15.00			3600.00	
Bullnose	3.00			3603.00	53.00 Bottom Packers & Anchor
Total Tool Length:	115.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc

15-13s-17w Ellis,KS

PO Box 352
Russell KS 67665 + 2635

Dreiling B #1

Job Ticket: 48535

DST#: 3

ATTN: John O Farmer IV

Test Start: 2012.08.28 @ 18:00:16

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

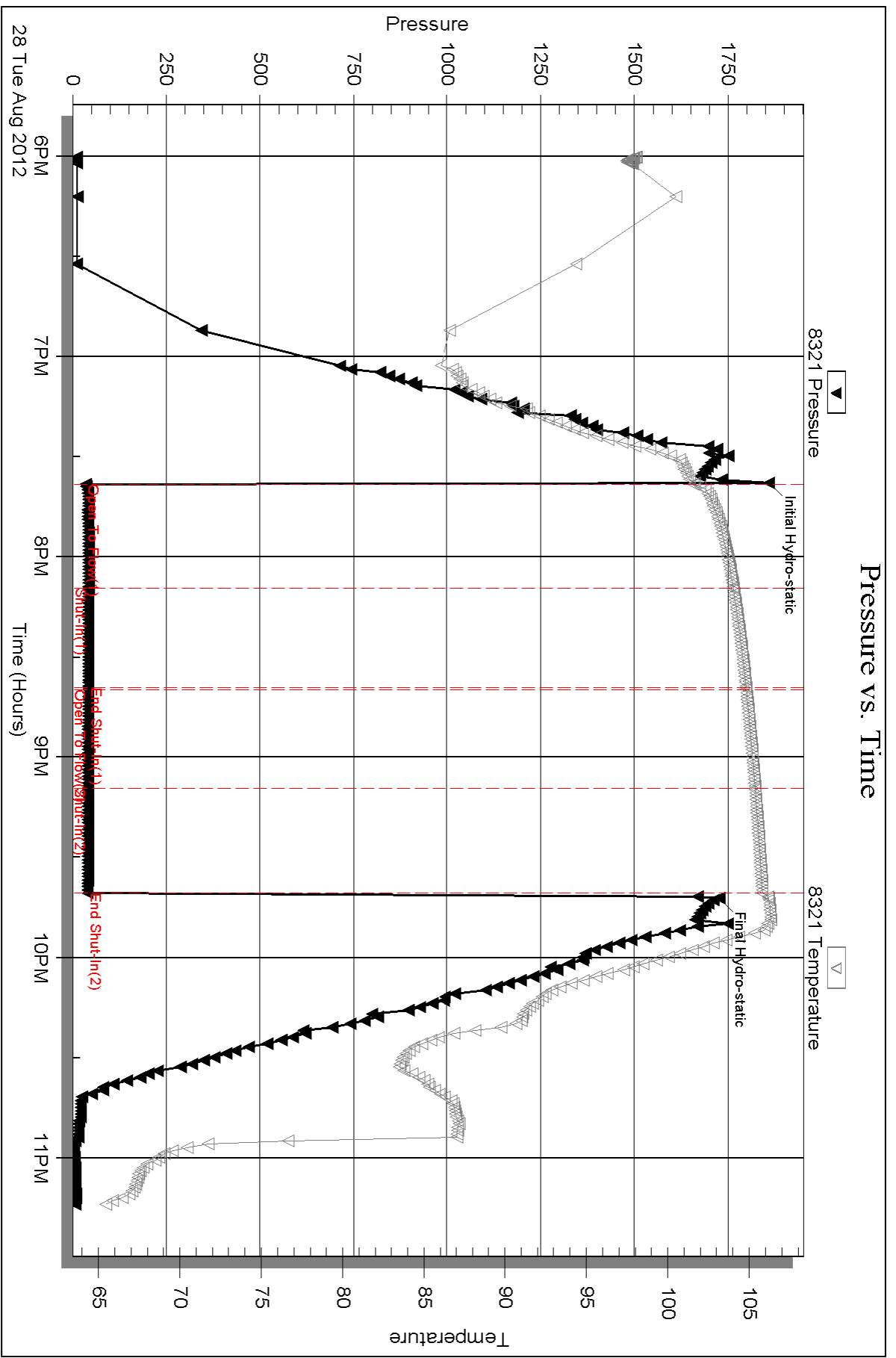
Num Gas Bombs: 0

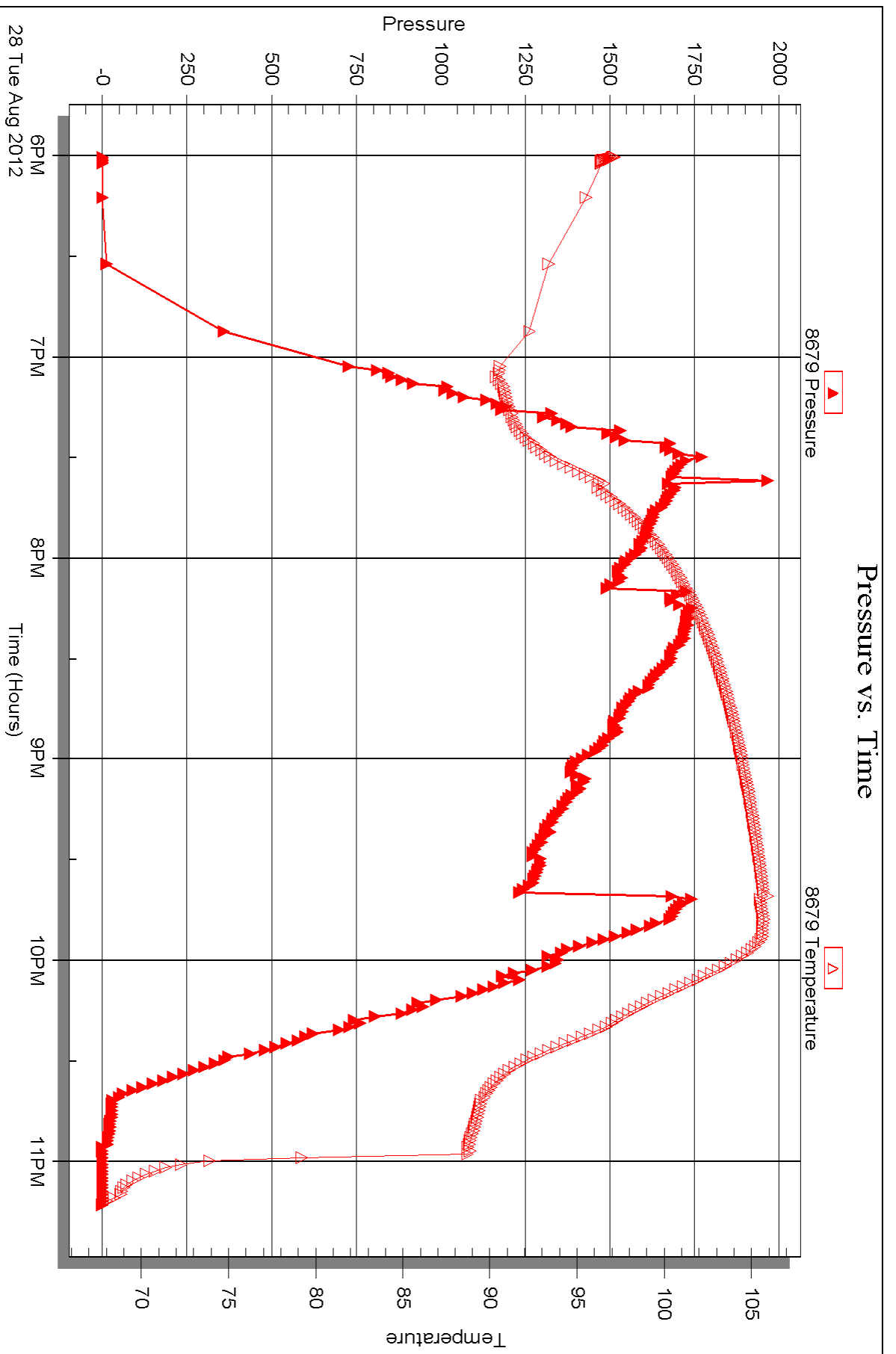
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



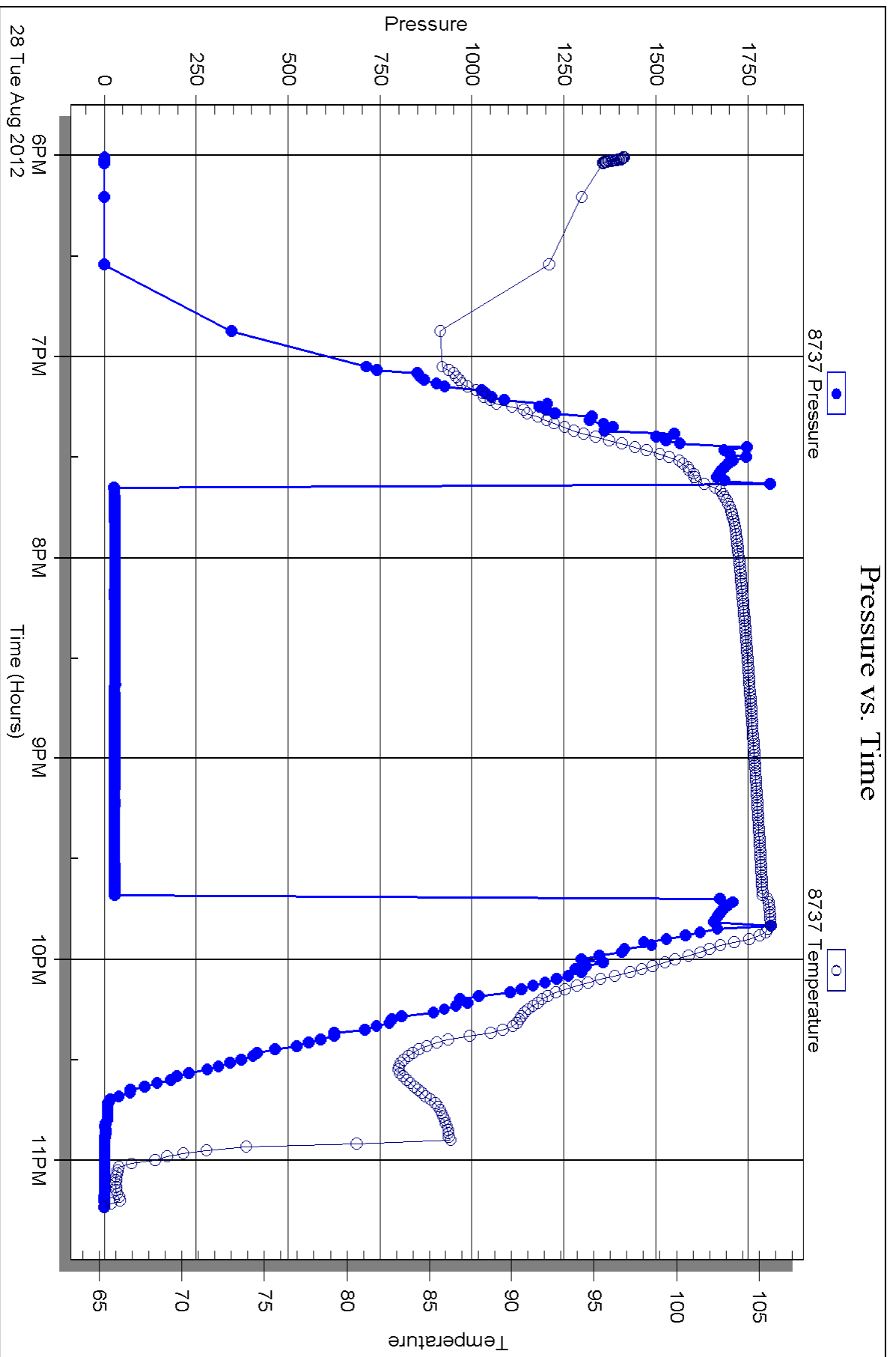


Serial #: 8737

Outside John O Farmer, Inc

Drilling B#1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48535

Printed: 2012.08.30 @ 11:49:44



DRILL STEM TEST REPORT

Prepared For: **John O Farmer, Inc**

PO Box 352
Russell KS 67665 + 2635

ATTN: John O Farmer IV

Dreiling B #1

15-13s-17w Ellis,KS

Start Date: 2012.08.29 @ 02:54:17

End Date: 2012.08.29 @ 10:07:47

Job Ticket #: 48536 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.30 @ 11:48:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

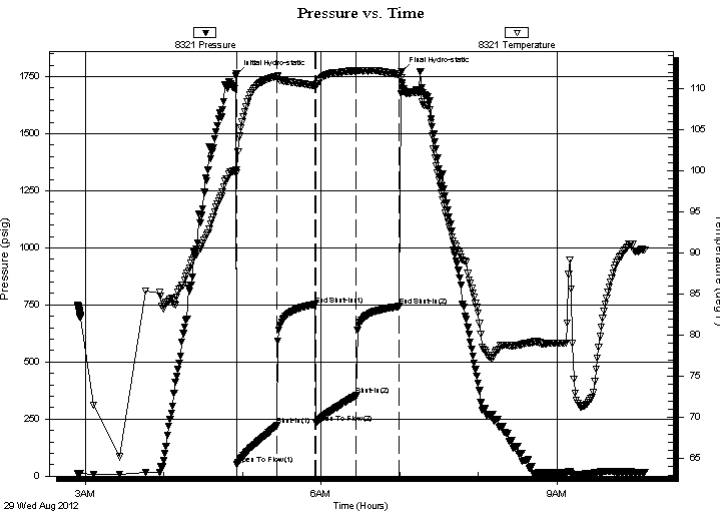
15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48536 **DST#: 4**
 Test Start: 2012.08.29 @ 02:54:17

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:55:47
 Time Test Ended: 10:07:47
 Interval: **3548.00 ft (KB) To 3570.00 ft (KB) (TVD)**
 Total Depth: 3600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2003.00 ft (KB)
 1995.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8321 Inside
 Press @ RunDepth: 352.72 psig @ 3551.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.29 End Date: 2012.08.29 Last Calib.: 2012.08.29
 Start Time: 02:54:18 End Time: 10:06:47 Time On Btm: 2012.08.29 @ 04:55:17
 Time Off Btm: 2012.08.29 @ 07:01:17

TEST COMMENT: IFP=Strong blow BOB in 4 1/2 min
 ISI=Weak surface blow back died out in 20 min
 FFP=Good blow BOB in 6 1/2 min
 FSI=Weak surface blow back died out in 17 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.79	100.09	Initial Hydro-static
1	49.82	99.80	Open To Flow (1)
31	221.00	111.53	Shut-In(1)
60	751.94	110.38	End Shut-In(1)
61	234.08	110.27	Open To Flow (2)
92	352.72	112.16	Shut-In(2)
125	743.91	111.79	End Shut-In(2)
126	1773.02	111.36	Final Hydro-static

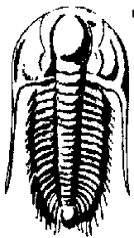
Recovery

Length (ft)	Description	Volume (bbl)
630.00	MW with a scum of oil 5%M 95%W	8.55
63.00	SOCWM 5%O 40%W 55%M	0.88
57.00	OCWM 10%O 10%W 80%M	0.80
1.00	Free Oil	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

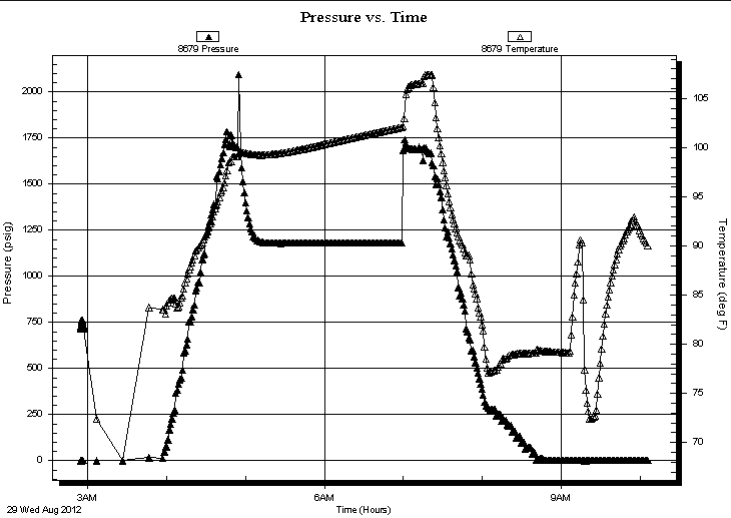
15-13s-17w Ellis, KS
Dreiling B #1
 Job Ticket: 48536 **DST#: 4**
 Test Start: 2012.08.29 @ 02:54:17

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:55:47
 Time Test Ended: 10:07:47
 Interval: **3548.00 ft (KB) To 3570.00 ft (KB) (TVD)**
 Total Depth: 3600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Straddle (Reset)
 Tester: Jeff Brown
 Unit No: 44
 Reference Elevations: 2003.00 ft (KB)
 1995.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8679 Below (Straddle)
 Press@RunDepth: psig @ 3574.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.08.29 End Date: 2012.08.29 Last Calib.: 2012.08.29
 Start Time: 02:54:24 End Time: 10:05:53 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP=Strong blow BOB in 4 1/2 min
 ISI=Weak surface blow back died out in 20 min
 FFP=Good blow BOB in 6 1/2 min
 FSI=Weak surface blow back died out in 17 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
630.00	MW with a scum of oil 5%M 95%W	8.55
63.00	SOCWM 5%O 40%W 55%M	0.88
57.00	OCWM 10%O 10%W 80%M	0.80
1.00	Free Oil	0.01

* Recovery from multiple tests

Gas Rates

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



TRILLOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 ATTN: John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48536 **DST#: 4**
 Test Start: 2012.08.29 @ 02:54:17

GENERAL INFORMATION:

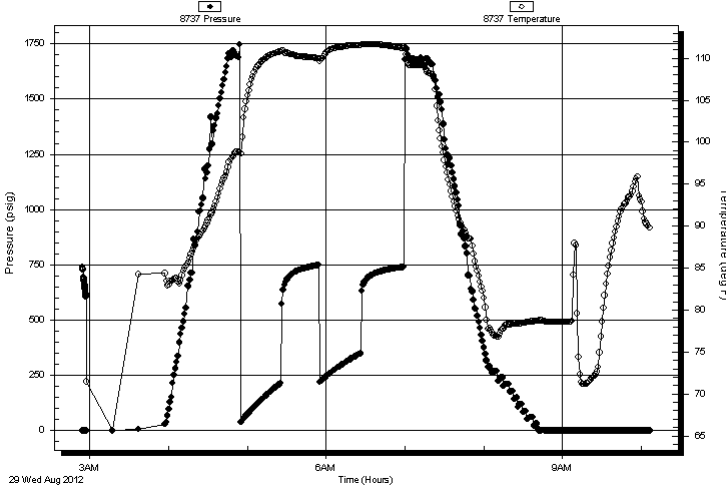
Formation:	Arbuckle		Test Type:	Conventional Straddle (Reset)
Deviated:	No Whipstock:	ft (KB)	Tester:	Jeff Brown
Time Tool Opened:	04:55:47		Unit No:	44
Time Test Ended:	10:07:47		Reference Elevations:	2003.00 ft (KB)
Interval:	3548.00 ft (KB) To 3570.00 ft (KB) (TVD)			1995.00 ft (CF)
Total Depth:	3600.00 ft (KB) (TVD)		KB to GR/CF:	8.00 ft
Hole Diameter:	7.88 inches Hole Condition: Good			

Serial #: 8737 Outside

Press @ Run Depth:	psig @	3551.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.08.29	End Date:	2012.08.29	Last Calib.:	2012.08.29
Start Time:	02:54:30	End Time:	10:06:44	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IFP=Strong blow BOB in 4 1/2 min
 ISI=Weak surface blow back died out in 20 min
 FFP=Good blow BOB in 6 1/2 min
 FSI=Weak surface blow back died out in 17 min

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
630.00	MW with a scum of oil 5%M 95%W	8.55
63.00	SOCWM 5%O 40%W 55%M	0.88
57.00	OCWM 10%O 10%W 80%M	0.80
1.00	Free Oil	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer, Inc
 PO Box 352
 Russell KS 67665 + 2635
 A T T N : John O Farmer IV

15-13s-17w Ellis,KS
Dreiling B #1
 Job Ticket: 48536 **DST#: 4**
 Test Start: 2012.08.29 @ 02:54:17

Tool Information

Drill Pipe:	Length: 3515.00 ft	Diameter: 3.80 inches	Volume: 49.31 bbl	Tool Weight: 2400.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 49.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3548.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	3570.00 ft			
Interval between Packers:	22.00 ft			
Tool Length:	72.00 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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Change Over Sub	1.00			3529.00	
Shut In Tool	5.00			3534.00	
Hydraulic tool	5.00			3539.00	
Packer	4.00			3543.00	20.00 Bottom Of Top Packer
Packer	5.00			3548.00	
Stubb	1.00			3549.00	
Perforations	2.00			3551.00	
Recorder	0.00	8321	Inside	3551.00	
Recorder	0.00	8737	Outside	3551.00	
Perforations	15.00			3566.00	
Blank Off Sub	1.00			3567.00	
Stubb	3.00			3570.00	22.00 Tool Interval
Packer	1.00			3571.00	
Stubb	1.00			3572.00	
Perforations	2.00			3574.00	
Recorder	0.00	8679	Below	3574.00	
Perforations	23.00			3597.00	
Bullnose	3.00			3600.00	30.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer, Inc

15-13s-17w Ellis,KS

PO Box 352
Russell KS 67665 + 2635

Dreiling B #1

Job Ticket: 48536

DST#: 4

ATTN: John O Farmer IV

Test Start: 2012.08.29 @ 02:54:17

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: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	MW with a scum of oil 5%M 95%W	8.555
63.00	SOCWM 5%O 40%W 55%M	0.884
57.00	OCWM 10%O 10%W 80%M	0.800
1.00	Free Oil	0.014

Total Length: 751.00 ft Total Volume: 10.253 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8321

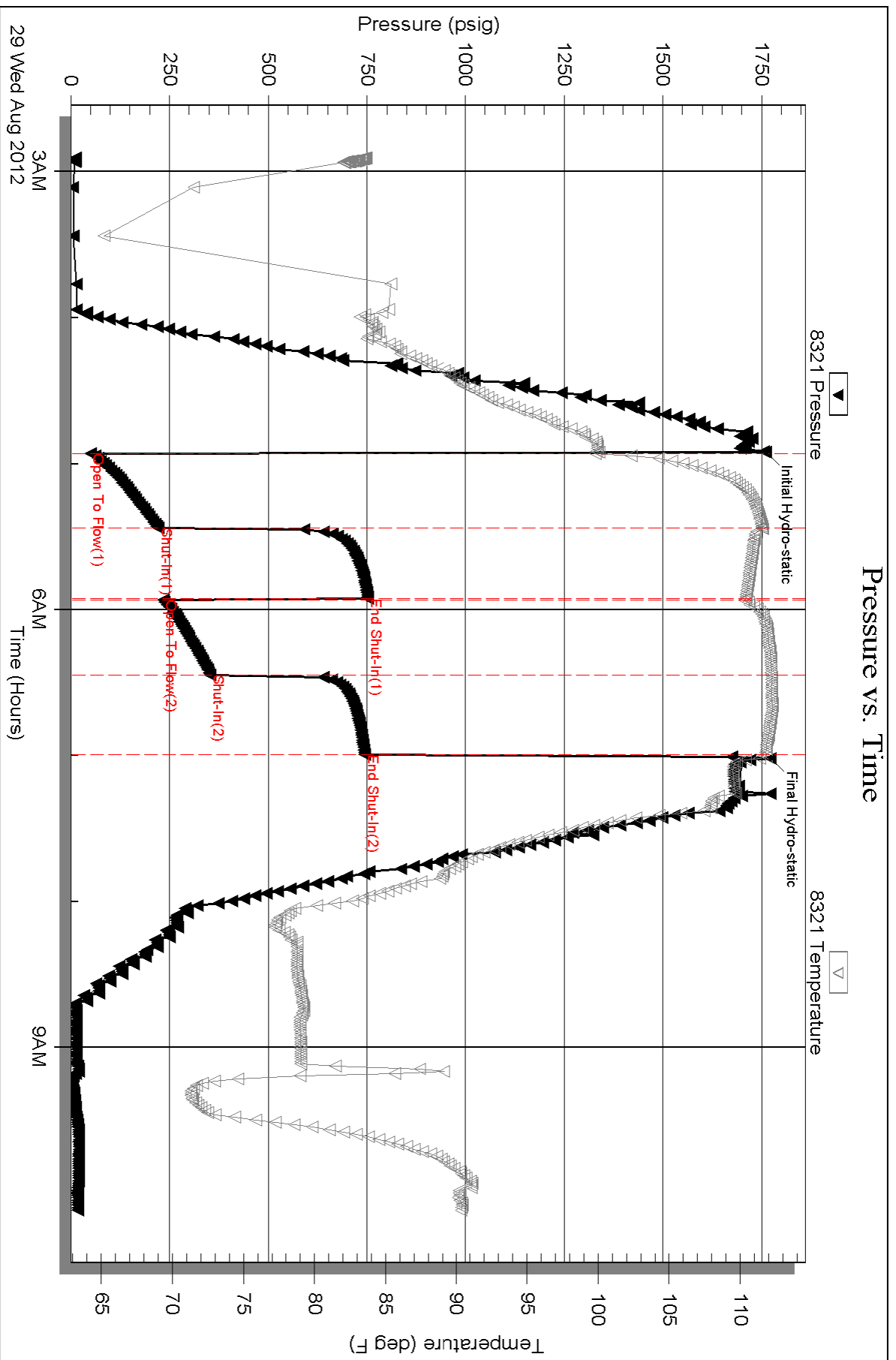
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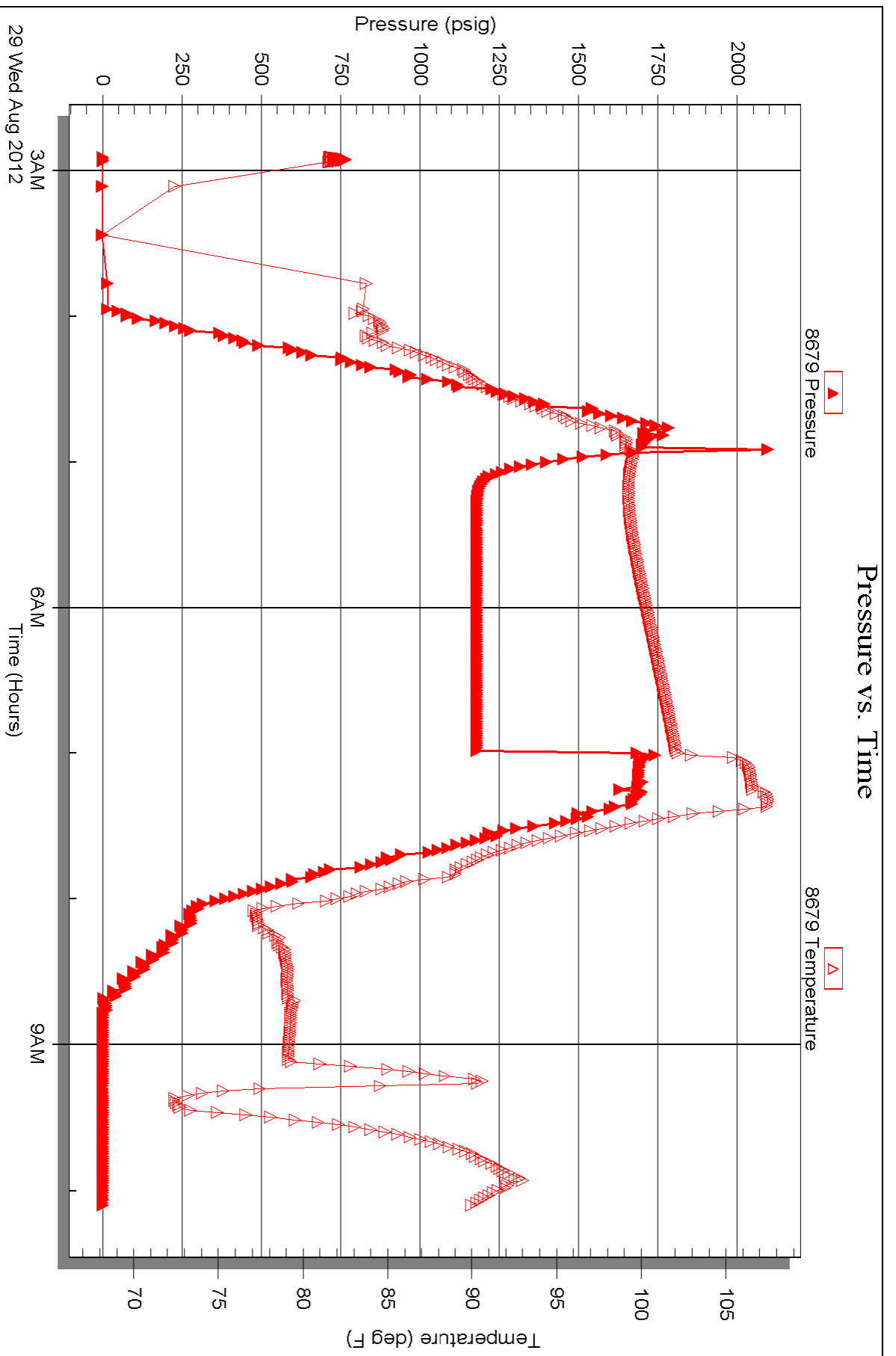
John O Farmer, Inc

Drilling B #1

DST Test Number: 4

Pressure vs. Time



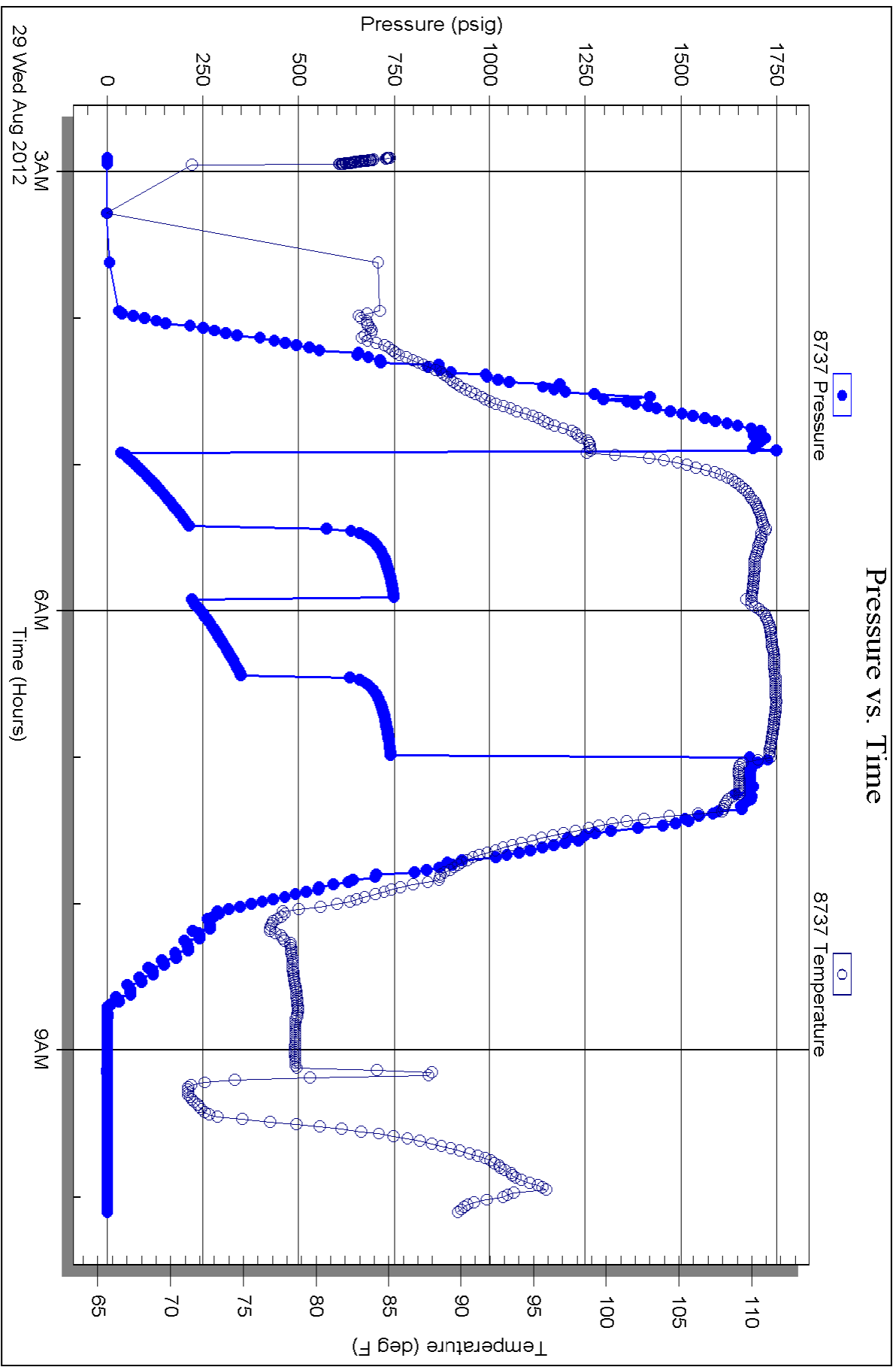


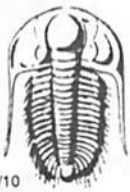
Serial #: 8737

Outside John O Farmer, Inc

Drilling B#1

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48533

Well Name & No. Dreiling B #1 Test No. 1 Date 8-27-12
 Company John D Farmer, INC Elevation 2003 KB 1995 GL
 Address PO Box 352 Russell KS 67465 + 2635
 Co. Rep / Geo. Austin Klaus Rig Discovery Rig #4
 Location: Sec. 15 Twp. 13 S Rge. 17W Co. ELLIS State KS

Interval Tested 3337-3358 Zone Tested LKC-E
 Anchor Length 21 Drill Pipe Run 3299 Mud Wt. 8.7
 Top Packer Depth 3332 Drill Collars Run 31 Vis 48
 Bottom Packer Depth 3337 Wt. Pipe Run 0 WL 8.8
 Total Depth 3358 Chlorides 2000 ppm System LCM 2
 Blow Description FFP-Strong Blow BOB IN 2 1/2 min
ISI-Dead NO Blow Back
FFP-GOOD Blow BOB IN 44 min
ISI-Dead NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>31</u>	<u>MUD WITH OIL SPOTS</u>				<u>100%</u>
<u>63</u>	<u>MW WITH OIL SPOTS</u>			<u>65%</u>	<u>35%</u>
	<u>283-GTP</u>				

Rec Total 94 BHT 105 Gravity _____ API RW .202 @ 69.9 °F Chlorides 36,000 ppm

(A) Initial Hydrostatic 1406 Test 1150 T-On Location 1:31
 (B) First Initial Flow 59 Jars T-Started 2:23
 (C) First Final Flow 58 Safety Joint T-Open 4:10
 (D) Initial Shut-In 174 Circ Sub T-Pulled ~~6:40~~ 7:10
 (E) Second Initial Flow 53 Hourly Standby T-Out 9:00
 (F) Second Final Flow 47 Mileage 140 RT ^{24.80} Comments _____
 (G) Final Shut-In 185 Sampler _____
 (H) Final Hydrostatic 1547 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1174.80
 Final Flow 400 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 400 30 Sub Total 1174.80

Approved By _____ Our Representative Jeff Brown

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

Test Ticket

NO. 48534

Well Name & No. Dreiling B #1 Test No. 2 Date 8-27-12
 Company John O Farmer, INC Elevation 2003 KB 1995 GL
 Address PO Box 352 Russell KS 6776605 + 2635
 Co. Rep / Geo. AUSTIN Klags Rig Discovery Rig #4
 Location: Sec. 15 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested 3355-3398 Zone Tested LKC-F-G
 Anchor Length 43 Drill Pipe Run 3330 Mud Wt. 8.8
 Top Packer Depth 3350 Drill Collars Run 31 Vis 43
 Bottom Packer Depth 3355 Wt. Pipe Run 0 WL 8.8
 Total Depth 3398 Chlorides 3000 ppm System LCM 2

Blow Description TP-weak surface blow died out in 20 min

IS-Dead NO Blow Back

FA-Dead NO Blow

BT-Dead NO Blow back

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

Rec Total 5 BHT 101 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 1422
- (B) First Initial Flow 29
- (C) First Final Flow 31
- (D) Initial Shut-In 177
- (E) Second Initial Flow 33
- (F) Second Final Flow 34
- (G) Final Shut-In 104
- (H) Final Hydrostatic 1569

- Test 1150
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 24.80
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1174.80

- T-On Location 15:43
- T-Started 15:57
- T-Open 17:55
- T-Pulled 19:55
- T-Out 21:30
- Comments _____
- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 0
- Total 1174.80
- MP/DST Disc't _____

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

Approved By _____

Our Representative Jeff Brown

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

Test Ticket

NO. 48535

Well Name & No. Dreiling B #1 Test No. 3 Date 8-28-12
 Company John O Farmer, INC Elevation 2003 KB 1995 GL
 Address PO Box 352 Russell KS 67665 + 2635
 Co. Rep / Geo. Austin Klaus Rig Discovery Rig # 4
 Location: Sec. 15 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested 3508-3550 Zone Tested ARBeckle
 Anchor Length 42' Anchor 53' Tail Drill Pipe Run 3437 Mud Wt. 9.0
 Top Packer Depth 3503 Drill Collars Run 31 Vis 60
 Bottom Packer Depth 3508 Wt. Pipe Run 0 WL 3.8
 Total Depth 3603 Chlorides 2000 ppm System LCM 2
 Blow Description FF-Weak Surface Blow BUILT TO 1 IN DIED BACK TO 3/4 IN
ISI-Dead No Blow Back
FF-Dead No Blow
ESI-Dead No Blow Back

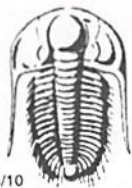
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100%</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 1060 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1859</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>17:32</u>
(B) First Initial Flow <u>34</u>	<input type="checkbox"/> Jars _____	T-Started <u>18:00</u>
(C) First Final Flow <u>42</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>19:39</u>
(D) Initial Shut-In <u>41</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>21:39</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:14</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>24.80</u>	Comments _____
(G) Final Shut-In <u>40</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1726</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1774.80</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1774.80</u>	

Approved By _____ Our Representative Jeff Blown

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

Test Ticket

NO. 48536

Well Name & No. Drilling B #1 Test No. 4 Date 8-29-12
 Company John O Farmer INC Elevation 2003 KB 1995 GL
 Address PO Box 352 Russell KS Latada + 2635
 Co. Rep / Geo. Austin Klaus Rig Discovery Rig #4
 Location: Sec. 15 Twp. 13s Rge. 17W Co. ELLIS State KS

Interval Tested 3548-3570 Zone Tested AR Buckle
 Anchor Length 22' Anchor 30' Tail Drill Pipe Run 3515 Mud Wt. 9.0
 Top Packer Depth 3543 Drill Collars Run 31 Vis 60
 Bottom Packer Depth 3548 Wt. Pipe Run 0 WL 8.8
 Total Depth 3600 Chlorides 2000 ppm System LCM 2
 Blow Description IFF-String Blow BOB IN 4 1/2 min
ISI-Weak Surface Blow Back Died out IN 20 min
FFP-Cord Blow BOB IN 2 1/2 min
ISI-Weak Surface Blow Back Died out IN 17 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>630</u>	<u>Feet of MW with A scum of oil</u>			<u>95</u>	<u>5</u>
<u>63</u>	<u>Feet of SOCWM</u>		<u>5</u>	<u>40</u>	<u>55</u>
<u>57</u>	<u>Feet of OCWM</u>		<u>10</u>	<u>10</u>	<u>80</u>
<u>1</u>	<u>Feet of Free oil</u>				

Rec Total 751 BHT 112 Gravity _____ API RW 226 @ 80.9 °F Chlorides 27,000 ppm

(A) Initial Hydrostatic 1761 Test 1150 T-On Location 2:43
 (B) First Initial Flow 50 Jars _____ T-Started 2:54
 (C) First Final Flow 221 Safety Joint _____ T-Open 4:57
 (D) Initial Shut-In 752 Circ Sub _____ T-Pulled 6:57
 (E) Second Initial Flow 234 Hourly Standby _____ T-Out 10:07
 (F) Second Final Flow 353 Mileage 24.80 Comments _____
 (G) Final Shut-In 744 Sampler _____
 (H) Final Hydrostatic 1773 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1774.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1774.80

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

Approved By _____ Our Representative Jeff Brown

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