



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: Austin Klaus

Radke #1

28-15s-14w Russell,KS

Start Date: 2017.05.26 @ 04:20:22

End Date: 2017.05.26 @ 09:33:46

Job Ticket #: 63955 DST #: 1

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

Printed: 2017.05.30 @ 09:05:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell KS 67665-2635
 ATTN: Austin Klaus

28-15s-14w Russell,KS
Radke #1
 Job Ticket: 63955 **DST#: 1**
 Test Start: 2017.05.26 @ 04:20:22

GENERAL INFORMATION:

Formation: **LKC A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:15:17
 Time Test Ended: 09:33:46
 Interval: **3058.00 ft (KB) To 3132.00 ft (KB) (TVD)**
 Total Depth: 3132.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 1877.00 ft (KB)
 1869.00 ft (CF)
 KB to GR/CF: 8.00 ft

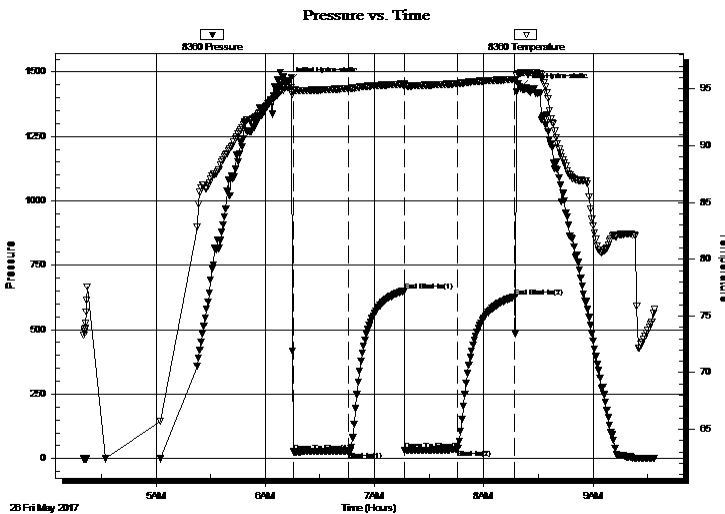
Serial #: 8360

Inside

Press@RunDepth: 35.03 psig @ 3066.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.26 End Date: 2017.05.26 Last Calib.: 2017.05.26
 Start Time: 04:20:22 End Time: 09:33:46 Time On Btm: 2017.05.26 @ 06:13:17
 Time Off Btm: 2017.05.26 @ 08:20:17

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 1 1/2" bl
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1463.22	95.12	Initial Hydro-static
2	26.07	94.87	Open To Flow (1)
33	30.00	95.04	Shut-In(1)
63	650.54	95.43	End Shut-In(1)
64	31.36	95.20	Open To Flow (2)
93	35.03	95.47	Shut-In(2)
124	627.24	95.85	End Shut-In(2)
127	1437.37	96.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w/show of oil	0.15

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: Austin Klaus

28-15s-14w Russell,KS
Radke #1
Job Ticket: 63955 **DST#: 1**
Test Start: 2017.05.26 @ 04:20:22

Tool Information

Drill Pipe:	Length: 2752.00 ft	Diameter: 3.80 inches	Volume: 38.60 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 40.88 bbl</u>	Tool Chased	4.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3058.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	74.00 ft				
Tool Length:	95.00 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			3038.00	
Shut In Tool	5.00			3043.00	
Hydraulic tool	5.00			3048.00	
Packer	5.00			3053.00	21.00 Bottom Of Top Packer
Packer	5.00			3058.00	
Stubb	1.00			3059.00	
Perforations	7.00			3066.00	
Recorder	0.00	8360	Inside	3066.00	
Recorder	0.00	6751	Outside	3066.00	
Blank Spacing	63.00			3129.00	
Bullnose	3.00			3132.00	74.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc
PO Box 352
Russell KS 67665-2635
ATTN: Austin Klaus

28-15s-14w Russell,KS
Radke #1
Job Ticket: 63955 **DST#: 1**
Test Start: 2017.05.26 @ 04:20:22

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: 7.52 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2900.00 ppm			
Filter Cake: 1.00 inches			

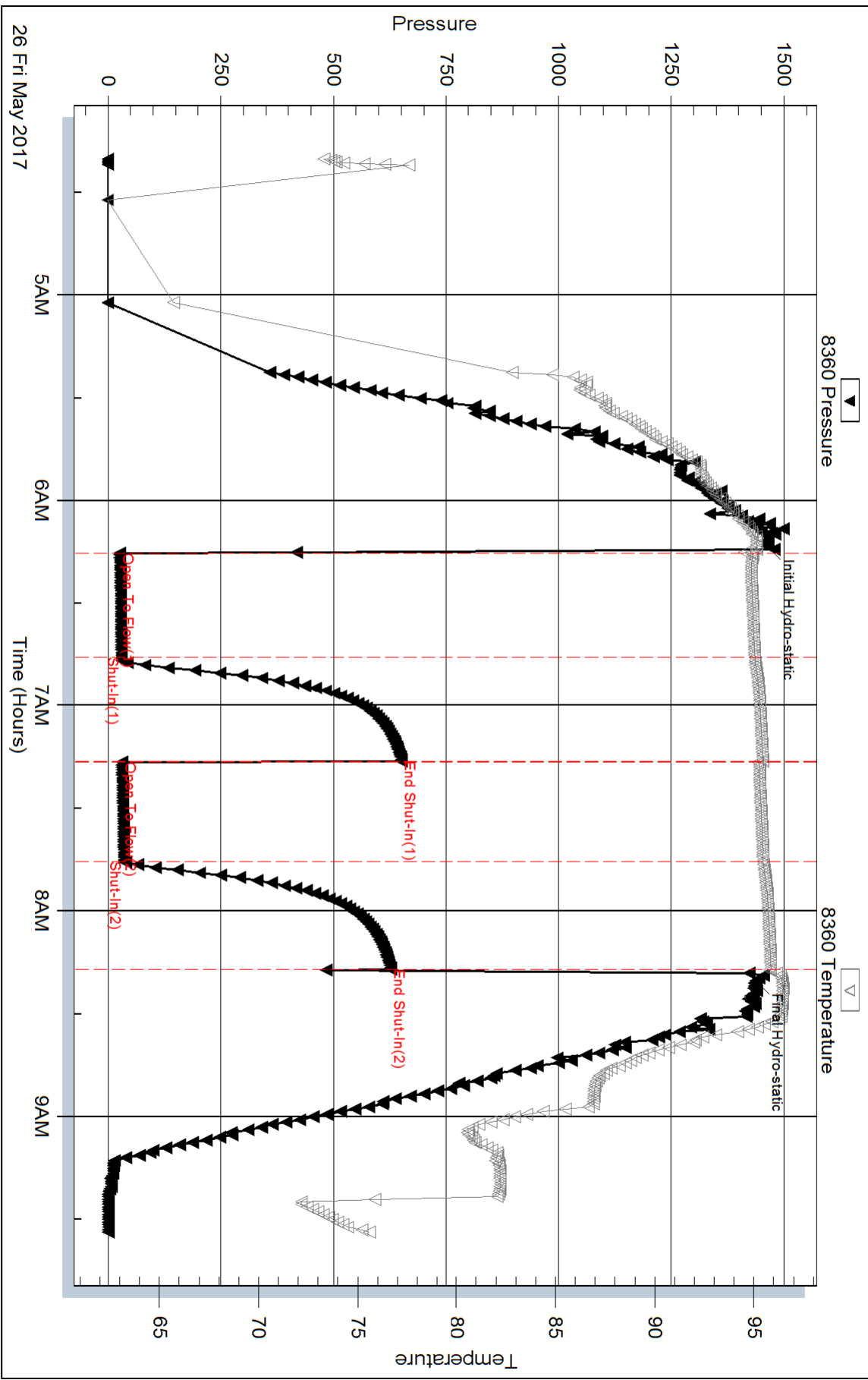
Recovery Information

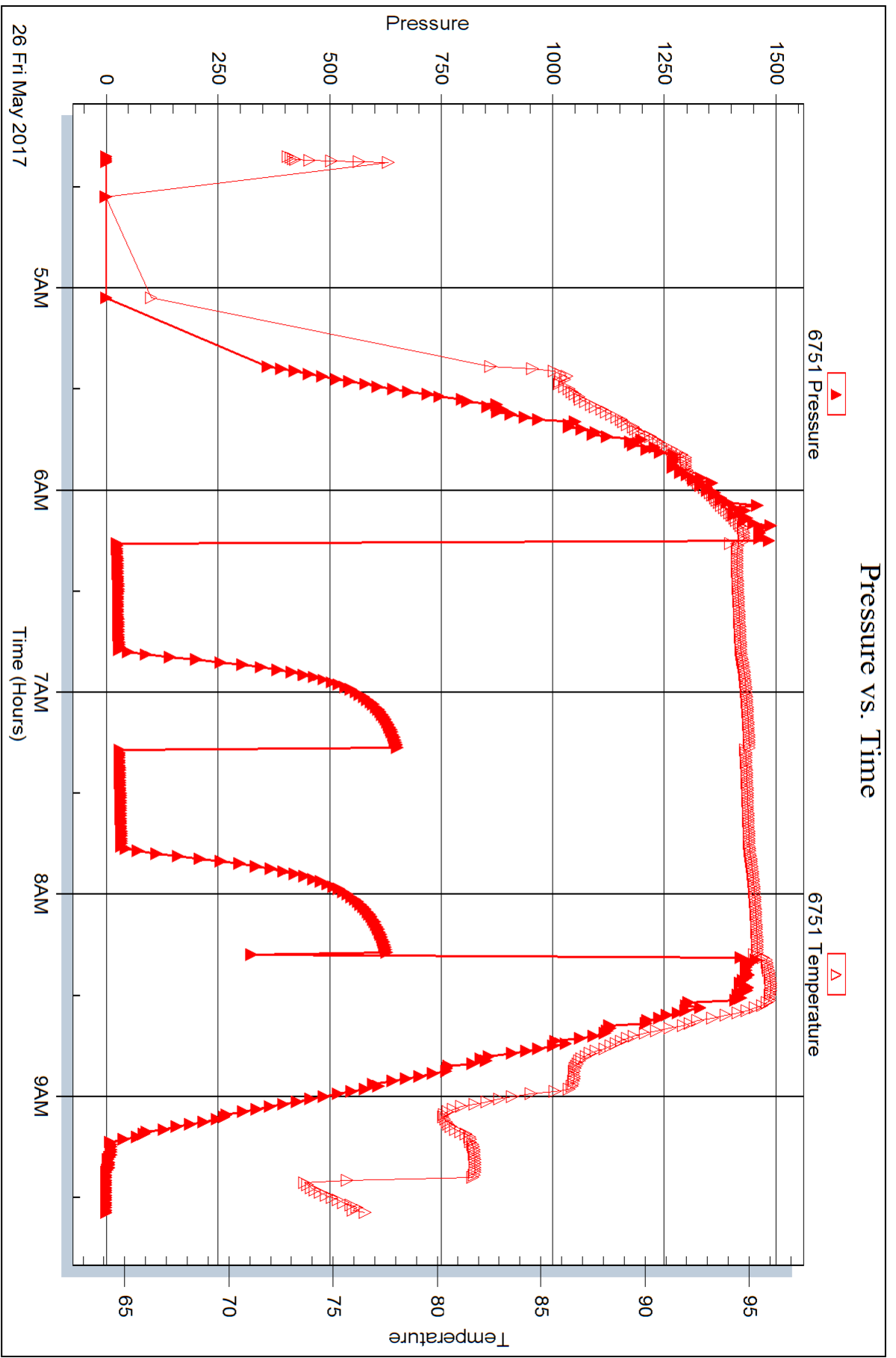
Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w/show of oil	0.147

Total Length: 20.00 ft Total Volume: 0.147 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: Austin Klaus

Radke #1

28-15s-14w Russell,KS

Start Date: 2017.05.26 @ 19:45:48

End Date: 2017.05.27 @ 00:40:27

Job Ticket #: 63956 DST #: 2

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

Printed: 2017.05.30 @ 09:04:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell KS 67665-2635
 ATTN: Austin Klaus

28-15s-14w Russell, KS
Radke #1
 Job Ticket: 63956 **DST#: 2**
 Test Start: 2017.05.26 @ 19:45:48

GENERAL INFORMATION:

Formation: **LKC D-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:15:58
 Time Test Ended: 00:40:27
 Interval: **3130.00 ft (KB) To 3200.00 ft (KB) (TVD)**
 Total Depth: 3200.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 1877.00 ft (KB)
 1869.00 ft (CF)
 KB to GR/CF: 8.00 ft

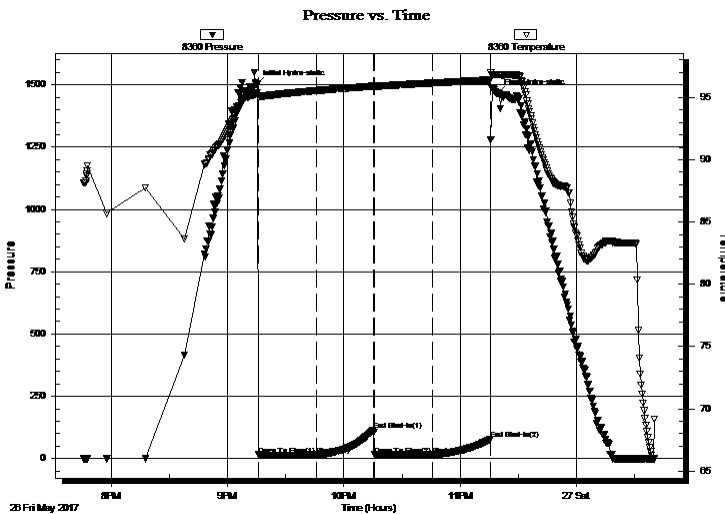
Serial #: 8360

Inside

Press@RunDepth: 15.05 psig @ 3134.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.26 End Date: 2017.05.27 Last Calib.: 2017.05.26
 Start Time: 19:45:48 End Time: 00:40:27 Time On Btm: 2017.05.26 @ 21:14:43
 Time Off Btm: 2017.05.26 @ 23:19:28

TEST COMMENT: 30-IFP-surface bl died in 20 min
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1500.39	95.29	Initial Hydro-static
2	15.17	95.03	Open To Flow (1)
32	14.13	95.55	Shut-In(1)
61	113.55	95.91	End Shut-In(1)
61	14.99	95.88	Open To Flow (2)
92	15.05	96.16	Shut-In(2)
121	77.95	96.41	End Shut-In(2)
125	1464.27	96.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.07

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc
PO Box 352
Russell KS 67665-2635
ATTN: Austin Klaus

28-15s-14w Russell,KS
Radke #1
Job Ticket: 63956 **DST#: 2**
Test Start: 2017.05.26 @ 19:45:48

Tool Information

Drill Pipe:	Length: 2815.00 ft	Diameter: 3.80 inches	Volume: 39.49 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 41.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3130.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	91.00 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			3110.00	
Shut In Tool	5.00			3115.00	
Hydraulic tool	5.00			3120.00	
Packer	5.00			3125.00	21.00 Bottom Of Top Packer
Packer	5.00			3130.00	
Stubb	1.00			3131.00	
Perforations	3.00			3134.00	
Recorder	0.00	8360	Inside	3134.00	
Recorder	0.00	6751	Outside	3134.00	
Blank Spacing	63.00			3197.00	
Bullnose	3.00			3200.00	70.00 Bottom Packers & Anchor

Total Tool Length: 91.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc
PO Box 352
Russell KS 67665-2635
ATTN: Austin Klaus

28-15s-14w Russell, KS
Radke #1
Job Ticket: 63956 **DST#: 2**
Test Start: 2017.05.26 @ 19:45:48

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: 9.10 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

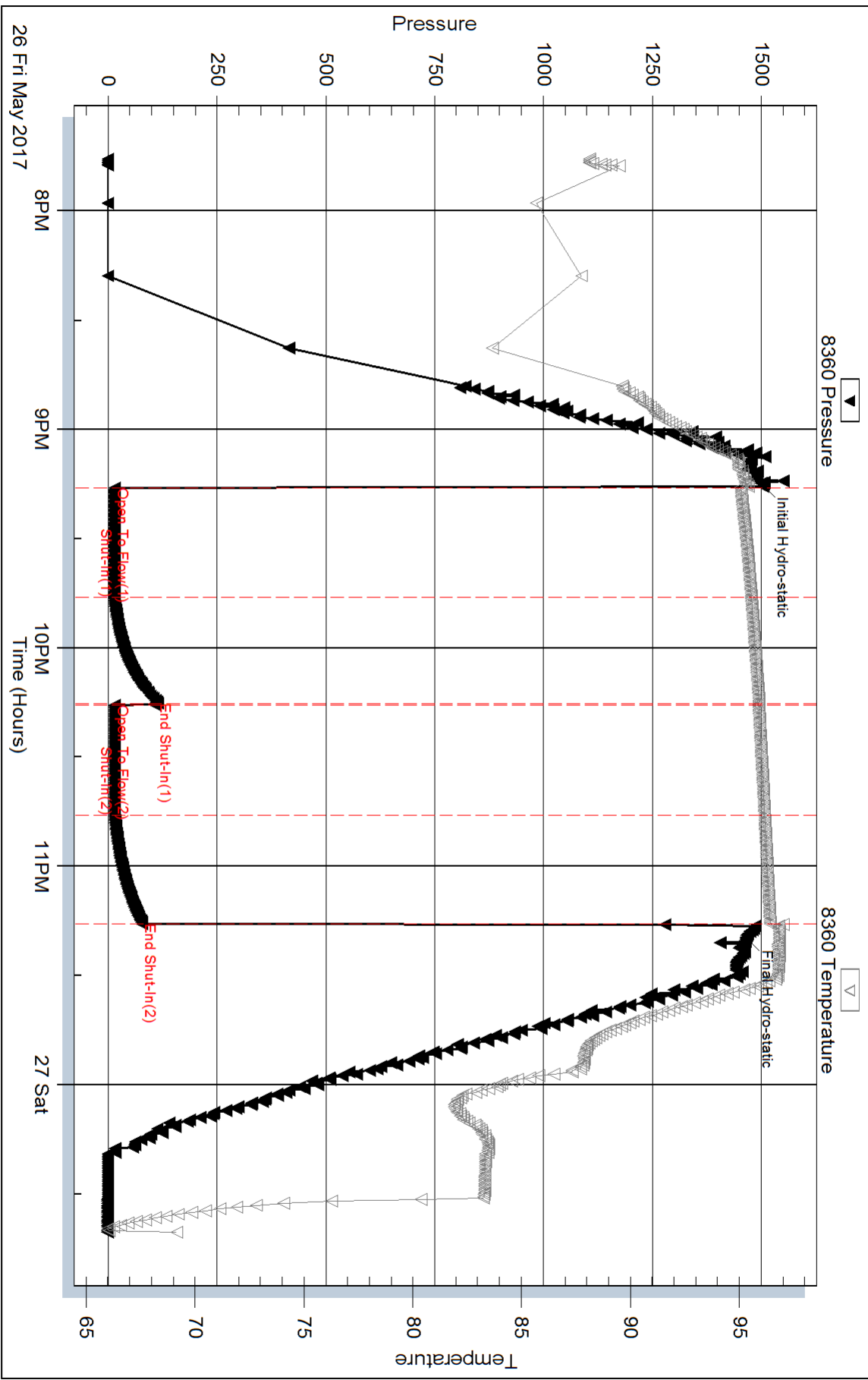
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.073

Total Length: 10.00 ft Total Volume: 0.073 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time

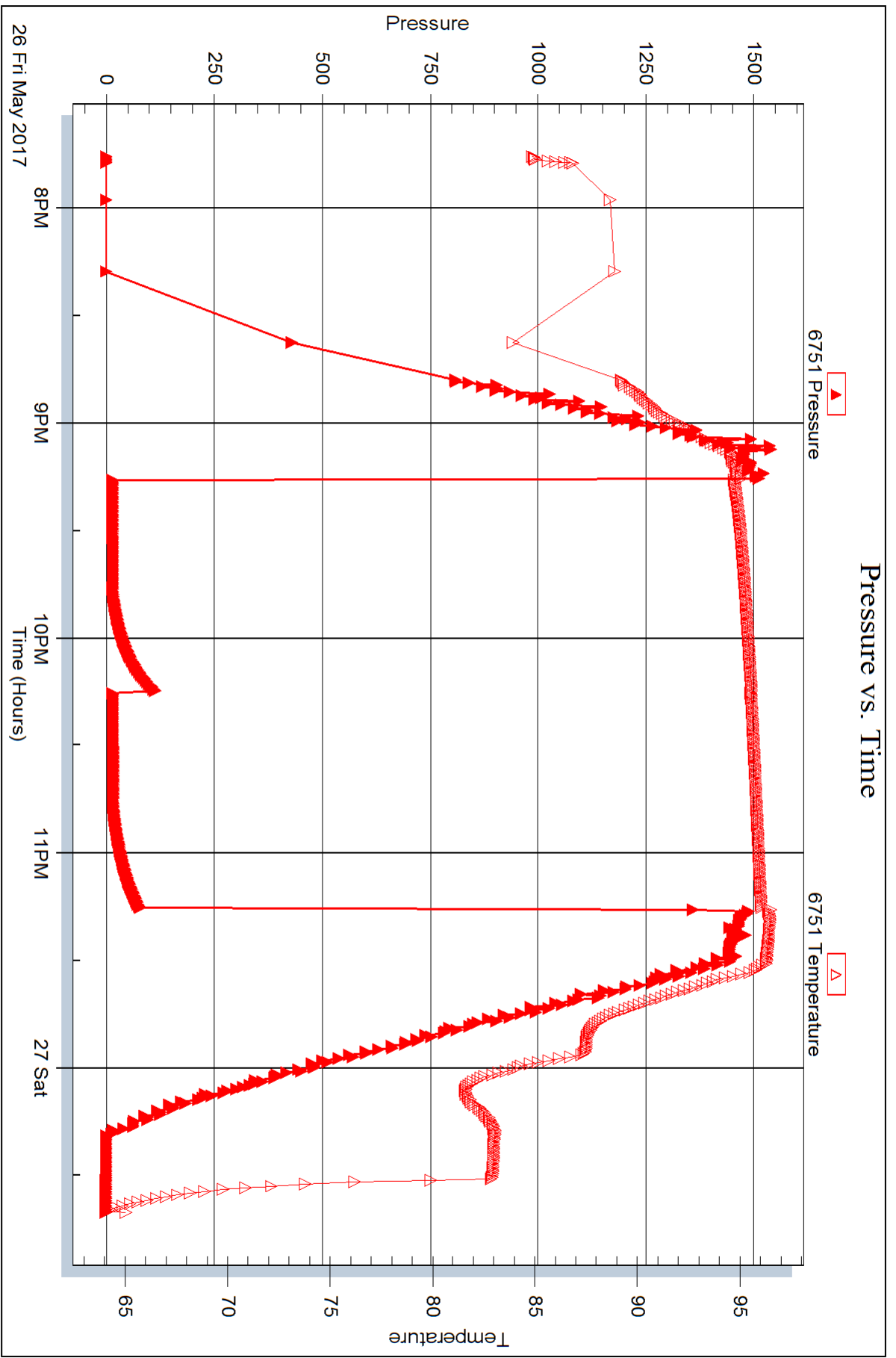


Serial #: 6751

Outside John O Farmer Inc

Radke #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: Austin Klaus

Radke #1

28-15s-14w Russell,KS

Start Date: 2017.05.27 @ 12:50:35

End Date: 2017.05.27 @ 18:33:37

Job Ticket #: 63957 DST #: 3

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

Printed: 2017.05.30 @ 09:04:25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc
PO Box 352
Russell KS 67665-2635
ATTN: Austin Klaus

28-15s-14w Russell, KS
Radke #1
Job Ticket: 63957 **DST#: 3**
Test Start: 2017.05.27 @ 12:50:35

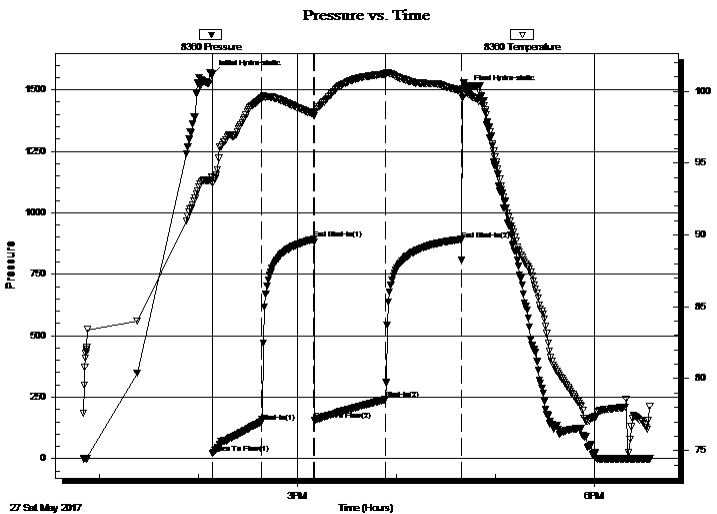
GENERAL INFORMATION:

Formation: **LKC H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:08:53
Time Test Ended: 18:33:37
Interval: **3228.00 ft (KB) To 3296.00 ft (KB) (TVD)**
Total Depth: 3296.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1877.00 ft (KB)
1869.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 77

Serial #: 8360 Inside
Press@RunDepth: 240.82 psig @ 3232.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.05.27 End Date: 2017.05.27 Last Calib.: 2017.05.27
Start Time: 12:50:35 End Time: 18:33:37 Time On Btm: 2017.05.27 @ 14:08:23
Time Off Btm: 2017.05.27 @ 16:43:08

TEST COMMENT: 30-IFP-w k to BOB in 15 min
30-ISIP-surface bl bk
45-FFP-w k to BOB in 25 min
45-FSIP-2" bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1560.86	94.06	Initial Hydro-static
1	22.73	93.61	Open To Flow (1)
30	150.48	99.52	Shut-In(1)
62	891.69	98.42	End Shut-In(1)
62	155.61	98.28	Open To Flow (2)
105	240.82	101.21	Shut-In(2)
151	891.59	100.04	End Shut-In(2)
155	1501.99	99.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	2.28
45.00	SO&GCWM 5%G1%O25%W69%M	0.63
10.00	CO	0.14
0.00	190' GIP	0.00

* 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: Austin Klaus

28-15s-14w Russell,KS

Radke #1

Job Ticket: 63957

DST#: 3

Test Start: 2017.05.27 @ 12:50:35

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:08:53

Time Test Ended: 18:33:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 3228.00 ft (KB) To 3296.00 ft (KB) (TVD)

Total Depth: 3296.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1877.00 ft (KB)

1869.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 3232.00 ft (KB)

Start Date: 2017.05.27

End Date: 2017.05.27

Capacity: 8000.00 psig

Last Calib.: 2017.05.27

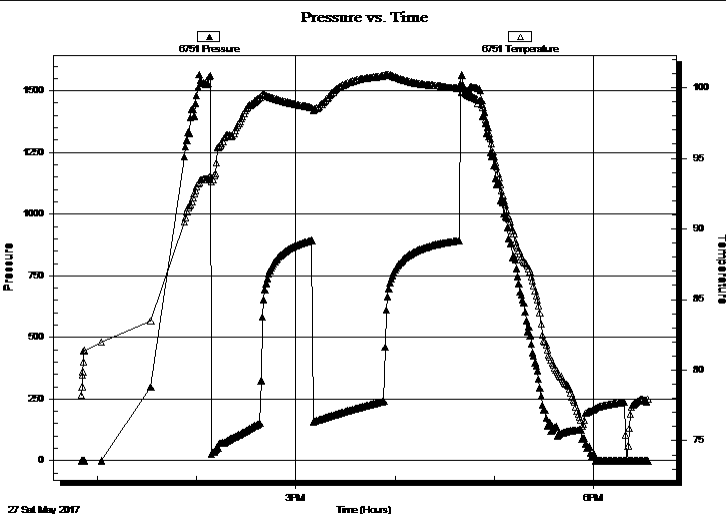
Start Time: 12:50:20

End Time: 18:33:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k to BOB in 15 min
 30-ISIP-surface bl bk
 45-FFP-w k to BOB in 25 min
 45-FSIP-2" bl bk



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	2.28
45.00	SO&GCWM 5%G1%O25%W69%M	0.63
10.00	CO	0.14
0.00	190' GIP	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

John O Farmer Inc
PO Box 352
Russell KS 67665-2635
ATTN: Austin Klaus

28-15s-14w Russell,KS
Radke #1
Job Ticket: 63957 **DST#: 3**
Test Start: 2017.05.27 @ 12:50:35

Tool Information

Drill Pipe:	Length: 2907.00 ft	Diameter: 3.80 inches	Volume: 40.78 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 43.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3228.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	89.00 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			3208.00	
Shut In Tool	5.00			3213.00	
Hydraulic tool	5.00			3218.00	
Packer	5.00			3223.00	21.00 Bottom Of Top Packer
Packer	5.00			3228.00	
Stubb	1.00			3229.00	
Perforations	3.00			3232.00	
Recorder	0.00	8360	Inside	3232.00	
Recorder	0.00	6751	Outside	3232.00	
Blank Spacing	33.00			3265.00	
Perforations	28.00			3293.00	
Bullnose	3.00			3296.00	68.00 Bottom Packers & Anchor

Total Tool Length: 89.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc
PO Box 352
Russell KS 67665-2635
ATTN: Austin Klaus

28-15s-14w Russell,KS
Radke #1
Job Ticket: 63957 **DST#: 3**
Test Start: 2017.05.27 @ 12:50:35

Mud and Cushion Information

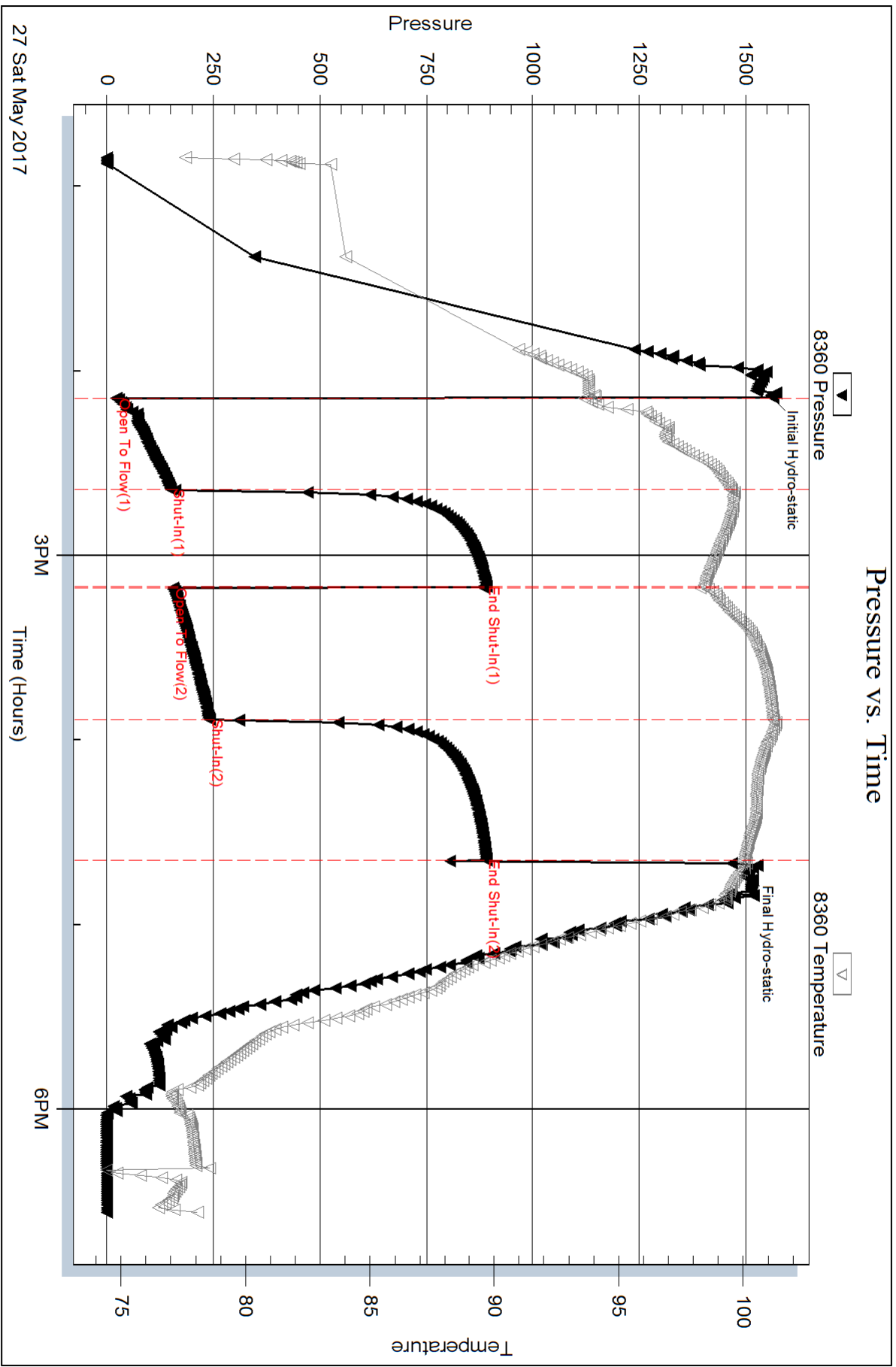
Mud Type: Gel Chem	Cushion Type:	Oil API: 43 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 68000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.52 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 6400.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	Water	2.277
45.00	SO&GCWM 5%G1%O25%W69%M	0.631
10.00	CO	0.140
0.00	190' GIP	0.000

Total Length: 365.00 ft Total Volume: 3.048 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .11@70F

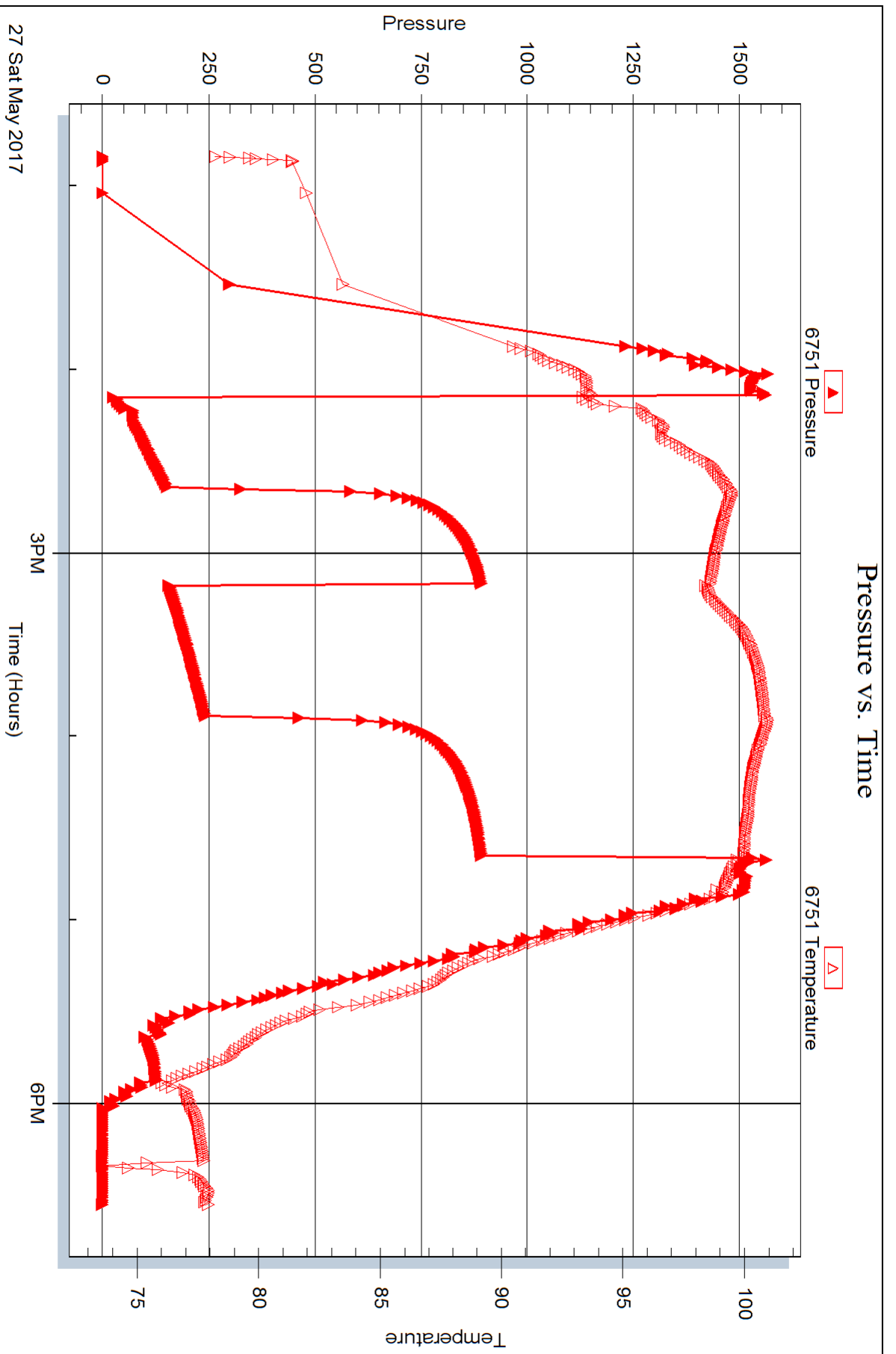


Serial #: 6751

Outside John O Farmer Inc

Radke #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63957

Printed: 2017.05.30 @ 09:04:26



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: Austin Klaus

Radke #1

28-15s-14w Russell,KS

Start Date: 2017.05.28 @ 09:25:09

End Date: 2017.05.28 @ 14:00:48

Job Ticket #: 63958 DST #: 4

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

Printed: 2017.05.30 @ 09:03:57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc
PO Box 352
Russell KS 67665-2635
ATTN: Austin Klaus

28-15s-14w Russell,KS
Radke #1
Job Ticket: 63958 **DST#: 4**
Test Start: 2017.05.28 @ 09:25:09

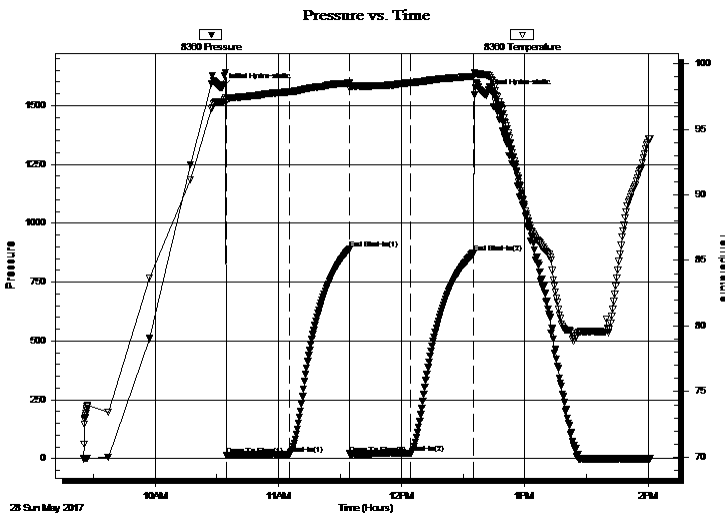
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:34:49
Time Test Ended: 14:00:48
Interval: **3314.00 ft (KB) To 3372.00 ft (KB) (TVD)**
Total Depth: 3410.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1877.00 ft (KB)
1869.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8360 **Inside**
Press@RunDepth: 24.00 psig @ 3316.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.05.28 End Date: 2017.05.28 Last Calib.: 2017.05.28
Start Time: 09:25:09 End Time: 14:00:48 Time On Btm: 2017.05.28 @ 10:32:49
Time Off Btm: 2017.05.28 @ 12:40:04

TEST COMMENT: 30-IFP-w k bl 1/4" to surface bl
30-ISIP-no bl
30-FFP-no bl
30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1576.36	97.12	Initial Hydro-static
2	14.81	97.13	Open To Flow (1)
33	19.68	97.86	Shut-In(1)
62	889.54	98.52	End Shut-In(1)
62	20.86	98.18	Open To Flow (2)
92	24.00	98.55	Shut-In(2)
123	874.55	99.04	End Shut-In(2)
128	1550.52	99.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.15

* 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: Austin Klaus

28-15s-14w Russell,KS

Radke #1

Job Ticket: 63958 **DST#: 4**
 Test Start: 2017.05.28 @ 09:25:09

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:34:49

Time Test Ended: 14:00:48

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 3314.00 ft (KB) To 3372.00 ft (KB) (TVD)

Total Depth: 3410.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1877.00 ft (KB)

1869.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 3316.00 ft (KB)

Start Date: 2017.05.28

End Date:

2017.05.28

Start Time: 09:25:14

End Time:

14:00:53

Capacity: 8000.00 psig

Last Calib.:

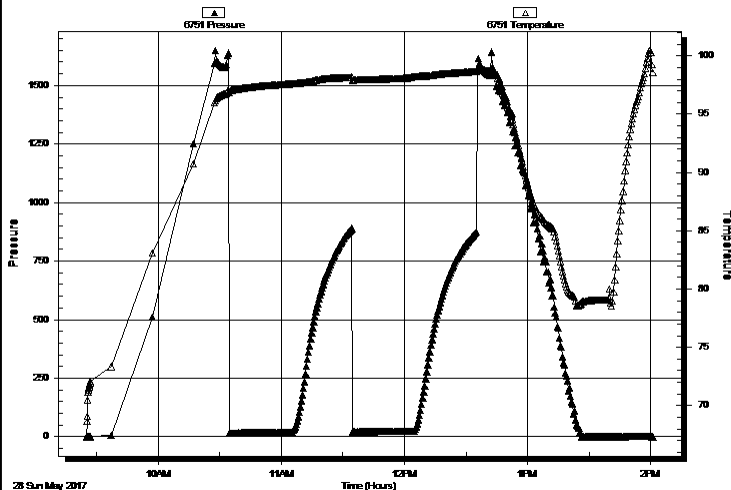
2017.05.28

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k bl 1/4" to surface bl
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.15

* 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: Austin Klaus

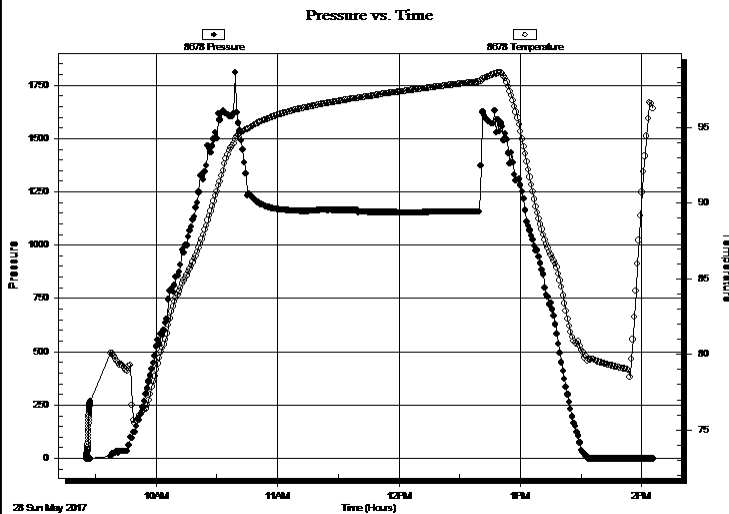
28-15s-14w Russell,KS
Radke #1
 Job Ticket: 63958 **DST#: 4**
 Test Start: 2017.05.28 @ 09:25:09

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:34:49
 Time Test Ended: 14:00:48
Interval: 3314.00 ft (KB) To 3372.00 ft (KB) (TVD)
 Total Depth: 3410.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Reset)
 Tester: Ray Schwager
 Unit No: 77
 Reference Elevations: 1877.00 ft (KB)
 1869.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8678 Below (Straddle)
 Press@RunDepth: psig @ 3378.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.28 End Date: 2017.05.28 Last Calib.: 2017.05.28
 Start Time: 09:25:35 End Time: 14:05:35 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k bl 1/4" to surface bl
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

28-15s-14w Russell,KS

PO Box 352
Russell KS 67665-2635

Radke #1

Job Ticket: 63958

DST#: 4

ATTN: Austin Klaus

Test Start: 2017.05.28 @ 09:25:09

Tool Information

Drill Pipe:	Length: 2999.00 ft	Diameter: 3.80 inches	Volume: 42.07 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 44.35 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3314.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3372.00 ft			
Interval between Packers:	58.00 ft			
Tool Length:	121.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3294.00	
Shut In Tool	5.00			3299.00	
Hydraulic tool	5.00			3304.00	
Packer	5.00			3309.00	21.00 Bottom Of Top Packer
Packer	5.00			3314.00	
Stubb	1.00			3315.00	
Perforations	1.00			3316.00	
Recorder	0.00	8360	Inside	3316.00	
Recorder	0.00	6751	Outside	3316.00	
Blank Spacing	33.00			3349.00	
Perforations	19.00			3368.00	
Blank Off Sub	1.00			3369.00	
Blank Spacing	3.00			3372.00	58.00 Tool Interval
Packer	5.00			3377.00	
Stubb	1.00			3378.00	
Recorder	0.00	8678	Below	3378.00	
Blank Spacing	33.00			3411.00	
Bullnose	3.00			3414.00	42.00 Bottom Packers & Anchor

Total Tool Length: 121.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc
PO Box 352
Russell KS 67665-2635
ATTN: Austin Klaus

28-15s-14w Russell,KS
Radke #1
Job Ticket: 63958 **DST#: 4**
Test Start: 2017.05.28 @ 09:25:09

Mud and Cushion Information

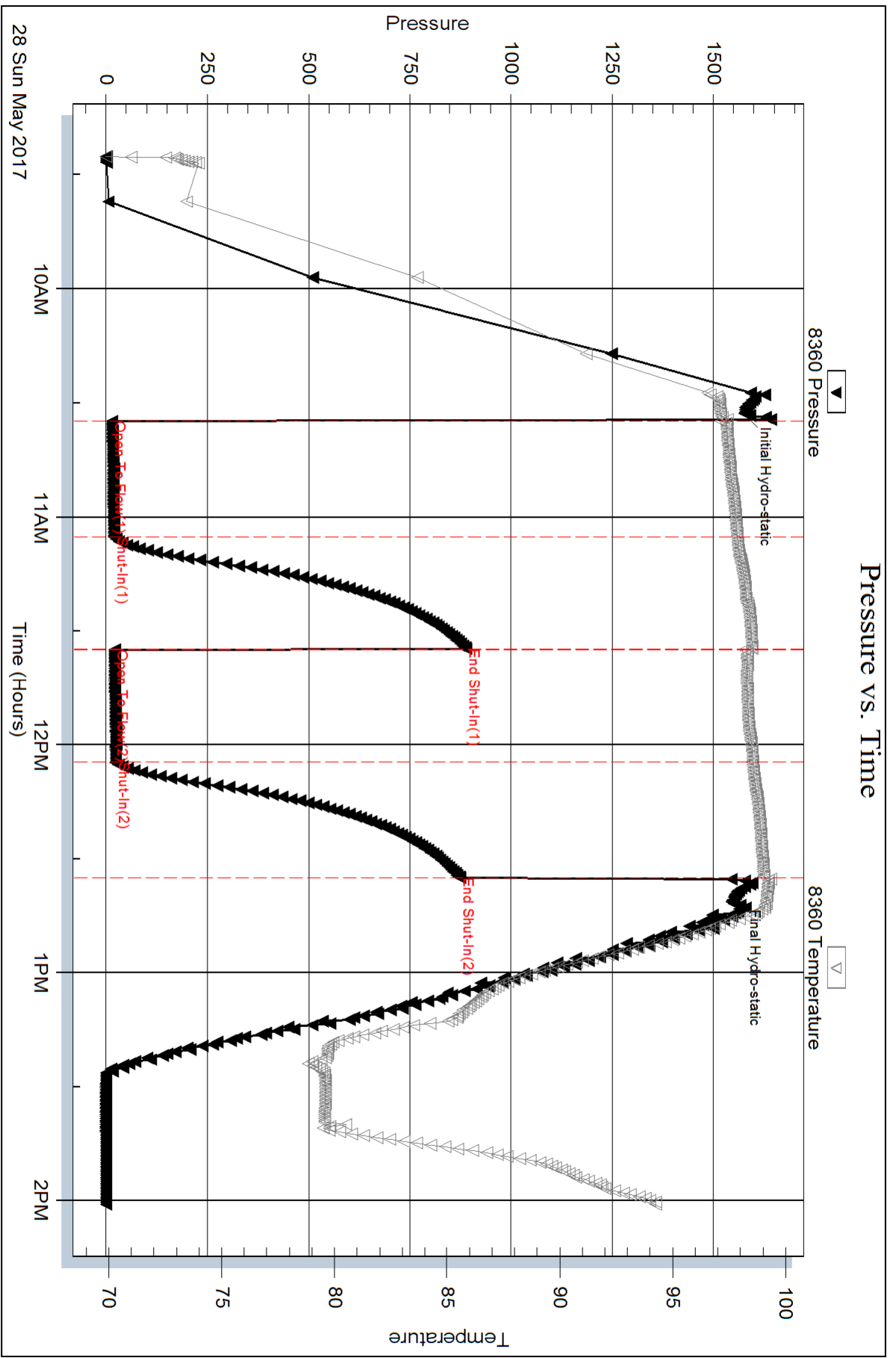
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.14 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

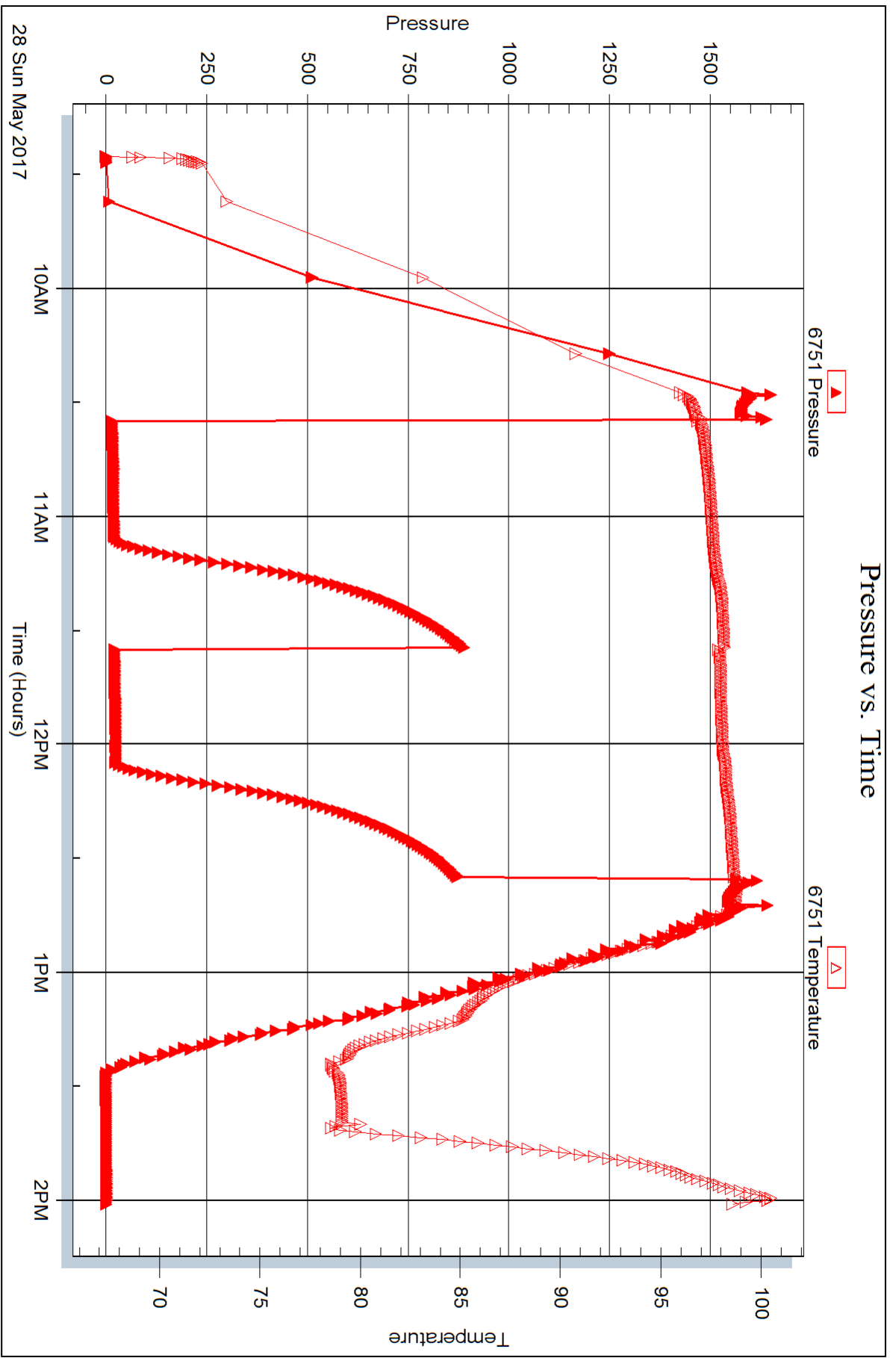
Recovery Table

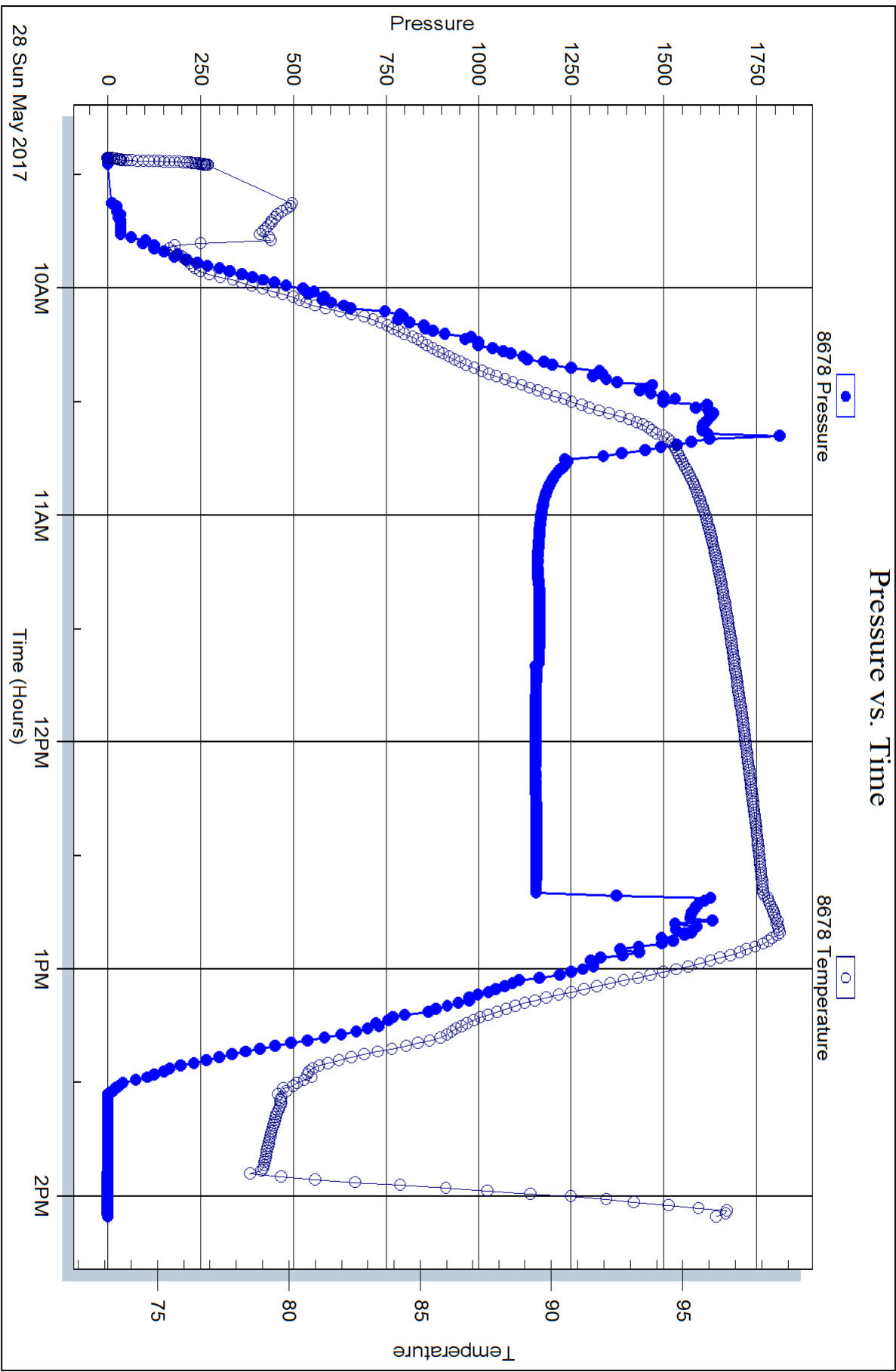
Length ft	Description	Volume bbl
20.00	Mud	0.147

Total Length: 20.00 ft Total Volume: 0.147 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



28 Sun May 2017







DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: Austin Klaus

Radke #1

28-15s-14w Russell,KS

Start Date: 2017.05.28 @ 14:25:31

End Date: 2017.05.28 @ 19:30:40

Job Ticket #: 63959 DST #: 5

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

Printed: 2017.05.30 @ 09:00:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc
 PO Box 352
 Russell KS 67665-2635
 ATTN: Austin Klaus

28-15s-14w Russell, KS
Radke #1
 Job Ticket: 63959 **DST#: 5**
 Test Start: 2017.05.28 @ 14:25:31

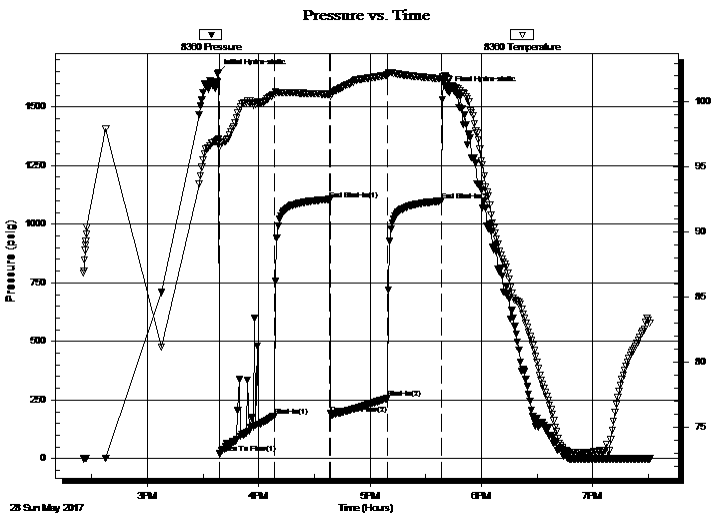
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:38:56 Tester: Ray Schwager
 Time Test Ended: 19:30:40 Unit No: 77
 Interval: **3314.00 ft (KB) To 3390.00 ft (KB) (TVD)** Reference Elevations: 1877.00 ft (KB)
 Total Depth: 3410.00 ft (KB) (TVD) 1869.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8360 Inside
 Press@RunDepth: 256.65 psig @ 3318.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.28 End Date: 2017.05.28 Last Calib.: 2017.05.28
 Start Time: 14:25:31 End Time: 19:30:40 Time On Btm: 2017.05.28 @ 15:37:56
 Time Off Btm: 2017.05.28 @ 17:42:11

TEST COMMENT: 30-IFP-w k to BOB in 15 min
 30-ISIP-no bl
 30-FFP-w k to BOB in 20 min
 30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.22	97.08	Initial Hydro-static
1	21.09	96.59	Open To Flow (1)
31	181.90	100.61	Shut-In(1)
61	1106.00	100.61	End Shut-In(1)
61	191.56	100.46	Open To Flow (2)
92	256.65	102.08	Shut-In(2)
121	1098.77	101.81	End Shut-In(2)
125	1567.63	101.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
430.00	Water	3.96
150.00	MW 30%M70%W	2.10

* 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: Austin Klaus

28-15s-14w Russell, KS
Radke #1
 Job Ticket: 63959 **DST#: 5**
 Test Start: 2017.05.28 @ 14:25:31

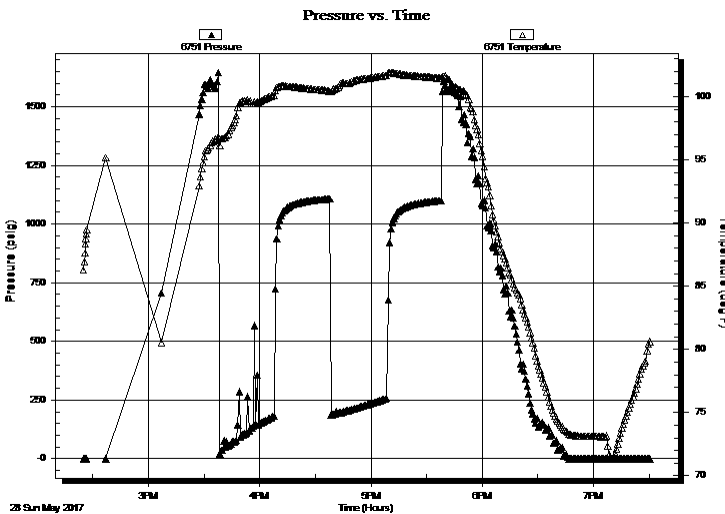
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:38:56 Tester: Ray Schwager
 Time Test Ended: 19:30:40 Unit No: 77
 Interval: **3314.00 ft (KB) To 3390.00 ft (KB) (TVD)** Reference Elevations: 1877.00 ft (KB)
 Total Depth: 3410.00 ft (KB) (TVD) 1869.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6751 Outside
 Press@RunDepth: psig @ 3318.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.28 End Date: 2017.05.28 Last Calib.: 2017.05.28
 Start Time: 14:25:05 End Time: 19:30:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k to BOB in 15 min
 30-ISIP-no bl
 30-FFP-w k to BOB in 20 min
 30-FSIP-no bl

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
430.00	Water	3.96
150.00	MW 30%M70%W	2.10

* 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: Austin Klaus

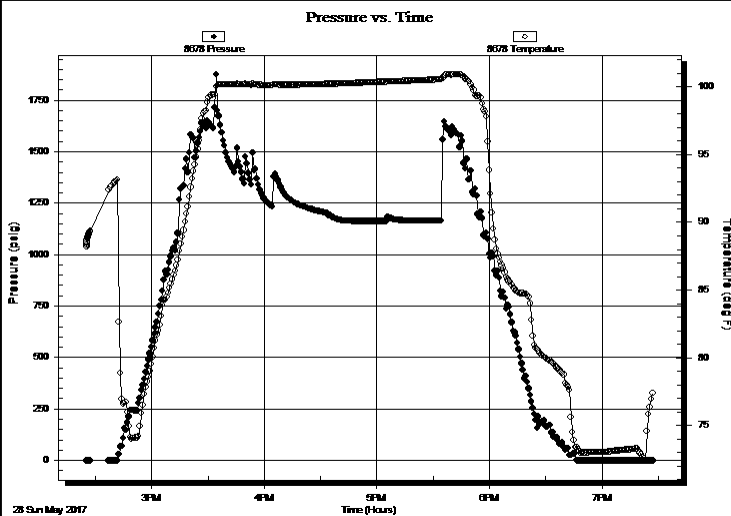
28-15s-14w Russell, KS
Radke #1
 Job Ticket: 63959 **DST#: 5**
 Test Start: 2017.05.28 @ 14:25:31

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:38:56
 Tester: Ray Schwager
 Time Test Ended: 19:30:40
 Unit No: 77
Interval: 3314.00 ft (KB) To 3390.00 ft (KB) (TVD)
 Reference Elevations: 1877.00 ft (KB)
 Total Depth: 3410.00 ft (KB) (TVD) 1869.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8678 Below (Straddle)
 Press@RunDepth: psig @ 3396.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.28 End Date: 2017.05.28 Last Calib.: 2017.05.28
 Start Time: 14:25:22 End Time: 19:26:52 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IFP-w k to BOB in 15 min
 30-ISIP-no bl
 30-FFP-w k to BOB in 20 min
 30-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
430.00	Water	3.96
150.00	MW 30%M70%W	2.10

* 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: Austin Klaus

28-15s-14w Russell,KS
Radke #1
Job Ticket: 63959 **DST#: 5**
Test Start: 2017.05.28 @ 14:25:31

Tool Information

Drill Pipe:	Length: 2999.00 ft	Diameter: 3.80 inches	Volume: 42.07 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3314.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	122.00 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			3293.00	
Shut In Tool	5.00			3298.00	
Hydraulic tool	5.00			3303.00	
Packer	6.00			3309.00	22.00 Bottom Of Top Packer
Packer	5.00			3314.00	
Stubb	1.00			3315.00	
Perforations	3.00			3318.00	
Recorder	0.00	8360	Inside	3318.00	
Recorder	0.00	6751	Outside	3318.00	
Blank Spacing	63.00			3381.00	
Perforations	5.00			3386.00	
Blank Off Sub	1.00			3387.00	
Blank Spacing	3.00			3390.00	100.00 Tool Interval
Packer	5.00			3395.00	
Stubb	1.00			3396.00	
Recorder	0.00	8678	Below	3396.00	
Perforations	15.00			3411.00	
Bullnose	3.00			3414.00	1000121.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc
PO Box 352
Russell KS 67665-2635
ATTN: Austin Klaus

28-15s-14w Russell,KS
Radke #1
Job Ticket: 63959 **DST#: 5**
Test Start: 2017.05.28 @ 14:25:31

Mud and Cushion Information

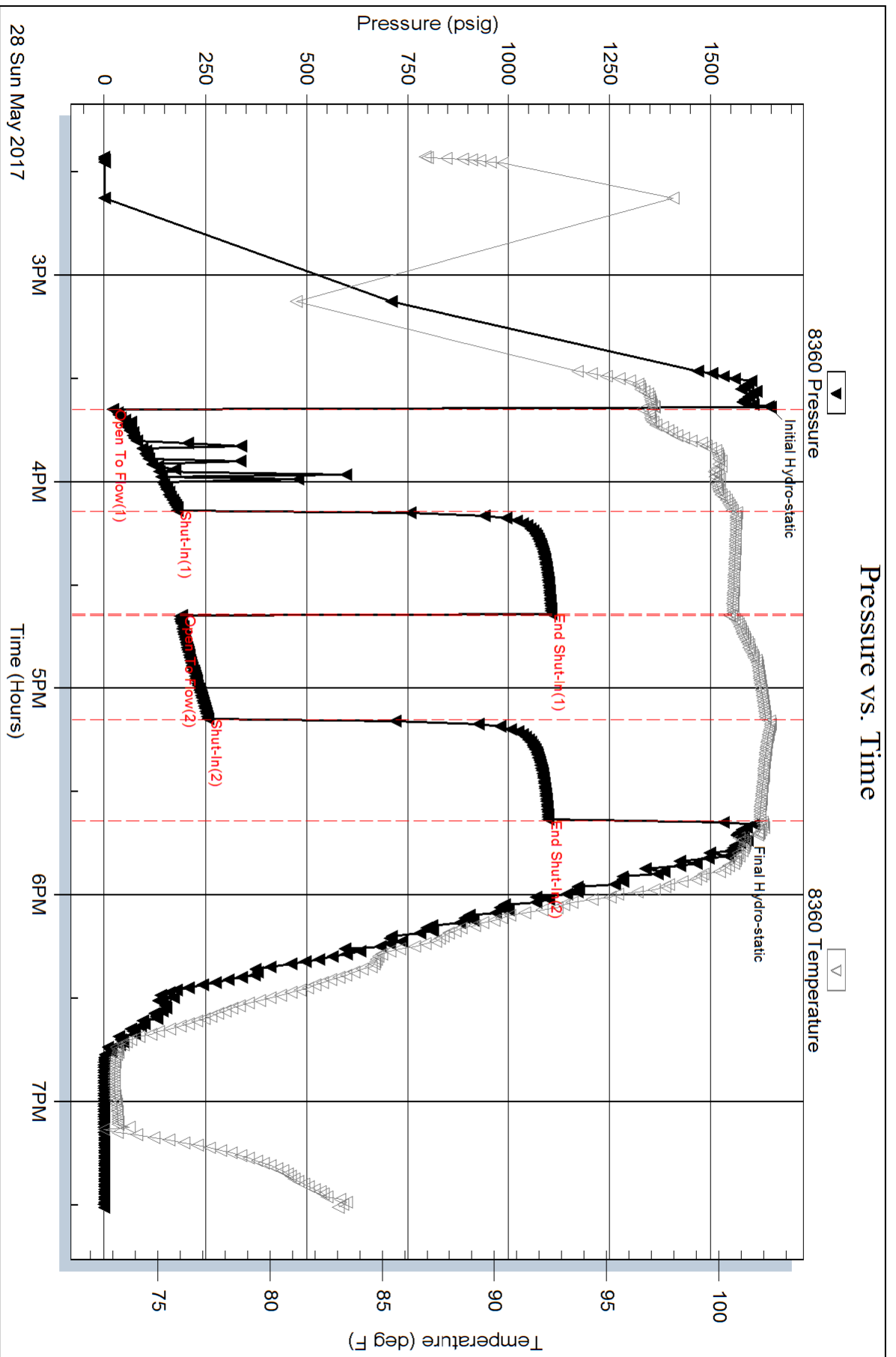
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	34000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.16 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
430.00	Water	3.961
150.00	MW 30%M70%W	2.104

Total Length: 580.00 ft Total Volume: 6.065 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: RW .19 @ 75F

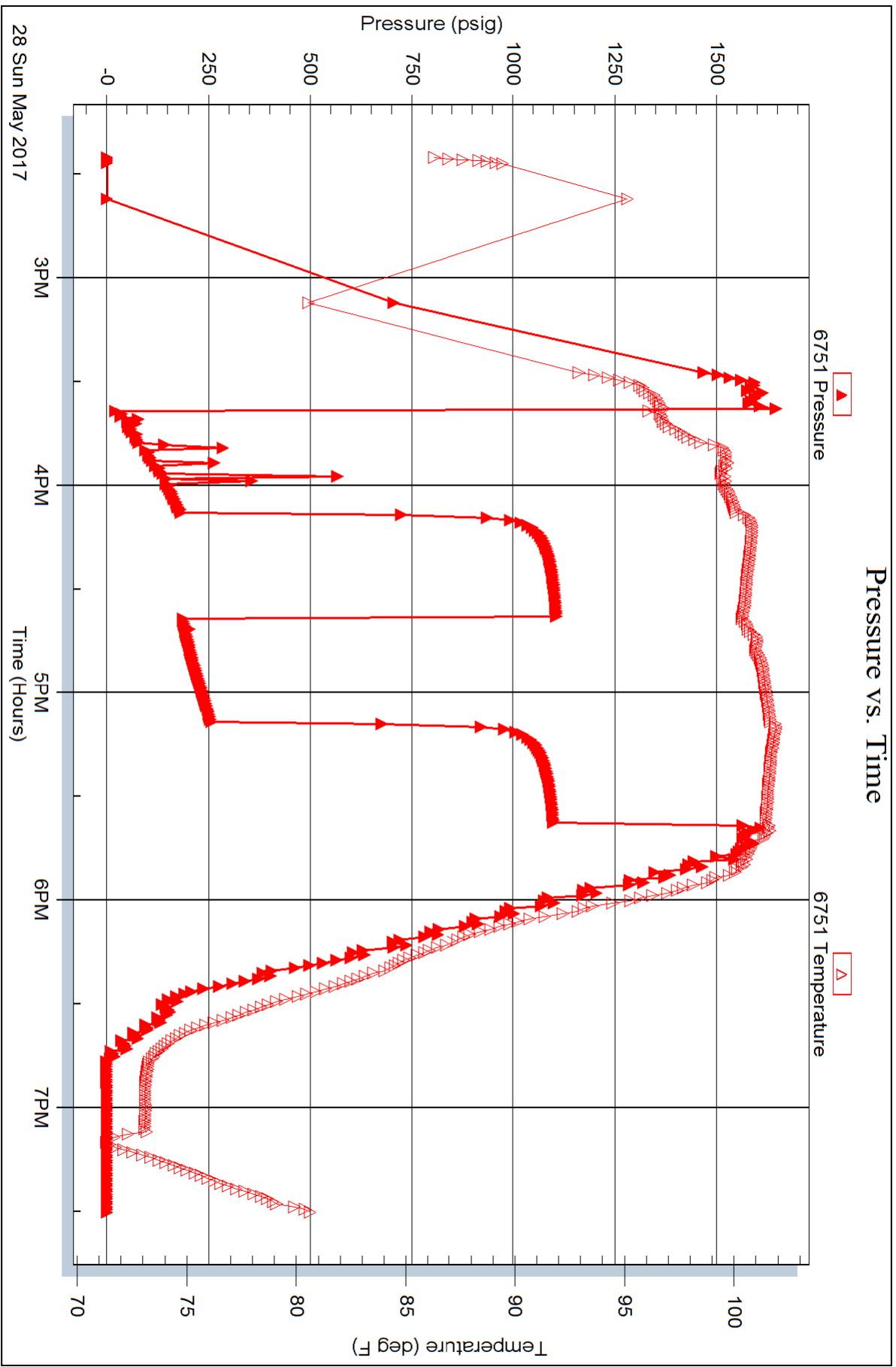


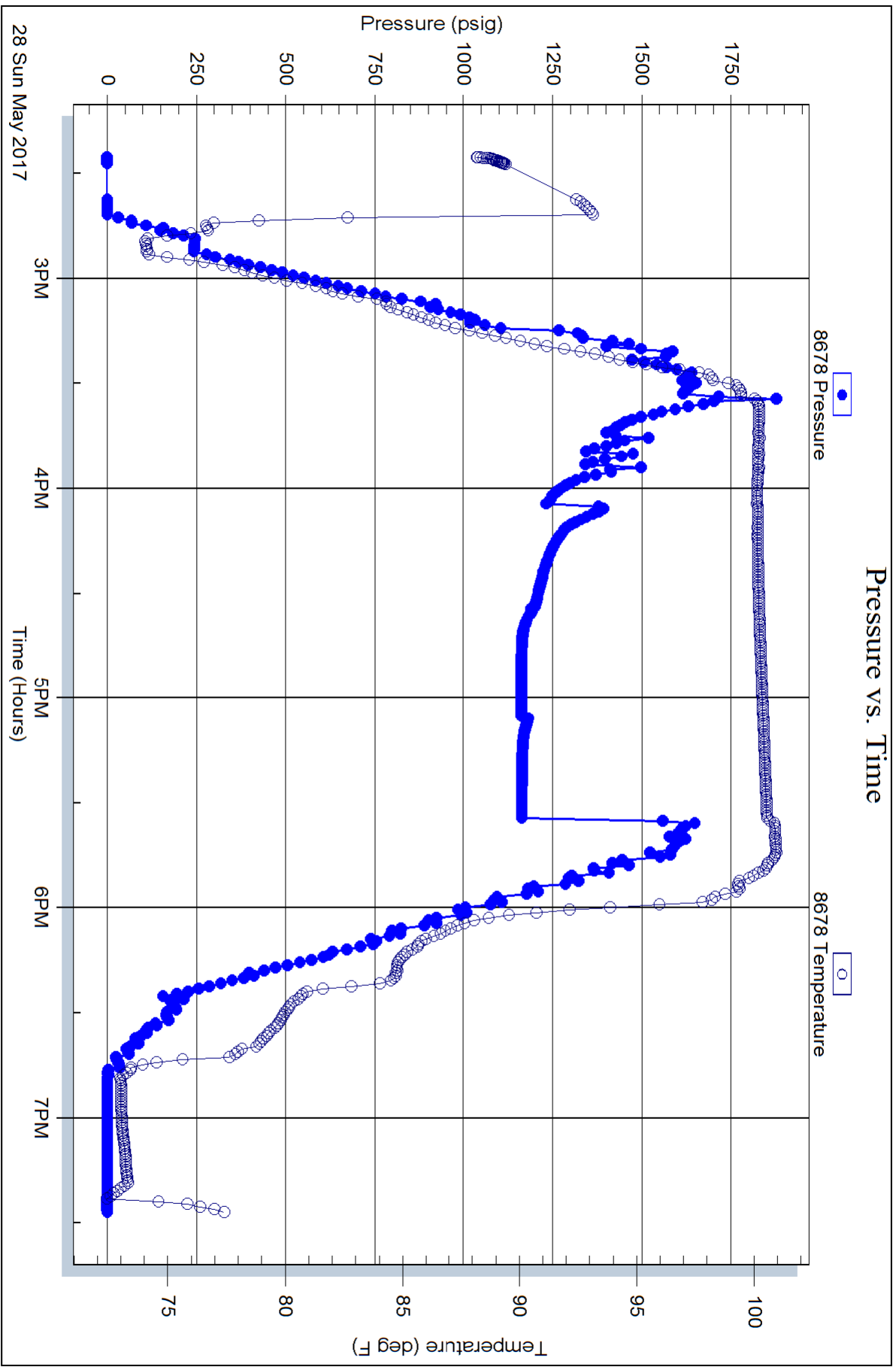
Serial #: 6751

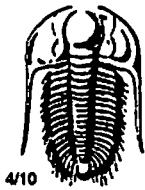
Outside John O Farmer Inc

Radke #1

DST Test Number: 5







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63955

Well Name & No. Radke #1 Test No. 1 Date 5-26-17
 Company John O. Farmer Inc Elevation 1877 KB 1869 GL
 Address 370 W. WICHITA AVE PO. BOX 352 RUSSELL, KS 67665-2635
 Co. Rep / Geo. AUSTIN KLAUS Rig Discovery rig 2
 Location: Sec. 28 Twp. 15^s Rge. 14^w Co. Russell State Ks

Interval Tested 3058-3132 Zone Tested LKC A-C
 Anchor Length 74 Drill Pipe Run 2752 Mud Wt. 8.8
 Top Packer Depth 3053 Drill Collars Run - Vis 51
 Bottom Packer Depth 3058 Wt. Pipe Run 310 WL 7.6
 Total Depth 3132 Chlorides 2900 ppm System LCM 2#

Blow Description IFP - Weak Blow thru-out 1/2" to 1 1/2" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

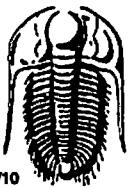
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Med w/show gl.</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT _____ Gravity - API RW - @ - ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1463</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0300</u>
(B) First Initial Flow <u>26</u>	<input type="checkbox"/> Jars _____	T-Started <u>0420</u>
(C) First Final Flow <u>30</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>0615</u>
(D) Initial Shut-In <u>650</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0815</u>
(E) Second Initial Flow <u>31</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0933</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>7.5 RT</u> 56.25	Comments _____
(G) Final Shut-In <u>627</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1437</u>	<input type="checkbox"/> Straddle _____	<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>1106.25</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1106.25</u>	

Approved By _____ Our Representative Ray Schwager *Ray*

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. 63956

Well Name & No. Radke #1 Test No. 2 Date 5-26-17
 Company John O Farmer Inc Elevation 1877 KB 1869 GL
 Address 370 W. WICHITA AVE PO Box 352 Russell, Ko 67665-2635
 Co. Rep / Geo. AUSTIN KLAUS Rig Discovery rig 2
 Location: Sec. 28 Twp. 15^s Rge. 14^w Co. Russell State Ko

Interval Tested 3130-3200 Zone Tested LKC 0-F
 Anchor Length 70 Drill Pipe Run 2815 Mud Wt. 8.9
 Top Packer Depth 3125 Drill Collars Run — Vis 50
 Bottom Packer Depth 3130 Wt. Pipe Run 310 WL 9.2
 Total Depth 3200 Chlorides 4400 ppm System LCM 1#

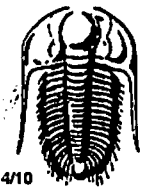
Blow Description JFP - SURFACE Blow died in 20 min
ISTP - NO Blow
FFP - NO Blow
FSTP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 96 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 1500 Test 1050 T-On Location 1850
 (B) First Initial Flow 15 Jars — T-Started 1945
 (C) First Final Flow 14 Safety Joint — T-Open 2115
 (D) Initial Shut-In 113 Circ Sub — T-Pulled 2315
 (E) Second Initial Flow 14 Hourly Standby — T-Out 0040
 (F) Second Final Flow 15 Mileage 56.25 Comments —
 (G) Final Shut-In 77 Sampler —
 (H) Final Hydrostatic 1464 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 1106.25
 Final Flow 30 Accessibility — MP/DST Disc't —
 Final Shut-In 30 Sub Total 1106.25

Approved By _____ Our Representative RAY SCHWAGN *Thank you*
 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. 63957

Well Name & No. Radke #1 Test No. 3 Date 5-27-17
 Company John O. Farmer Inc Elevation 1877 KB 1869 GL
 Address 370 W. WICHITA AVE PO BOX 352 RUSSELL, KS 67665-2635
 Co. Rep / Geo. AUSTIN KLAUS Rig Discovery rig 2
 Location: Sec. 28 Twp. 15^s Rge. 14^w Co. Russell State Ks

Interval Tested 3228-3296 Zone Tested LKC H-J
 Anchor Length 68 Drill Pipe Run 2907 Mud Wt. 9
 Top Packer Depth 3223 Drill Collars Run - Vis 47
 Bottom Packer Depth 3228 Wt. Pipe Run 310 WL 9.6
 Total Depth 3296 Chlorides 6400 ppm System LCM 1/2#

Blow Description IFP - WEAK TO BOBIN 15min
T SIP - SURFACE BLOW BACK
FFP - WEAK TO BOBIN 25min
FSIP - 2" BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>GIP</u>				
<u>10</u>	<u>CO</u>				
<u>45</u>	<u>SOFGCWM</u>	<u>5</u>	<u>1</u>	<u>25</u>	<u>69</u>
<u>310</u>	<u>WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud

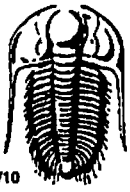
Rec Total 365 BHT 100 Gravity 43 API RW .11 @ 70 ° F Chlorides 68000 ppm

(A) Initial Hydrostatic 1560 Test 1050 T-On Location 1220
 (B) First Initial Flow 22 Jars T-Started 1250
 (C) First Final Flow 150 Safety Joint T-Open 1405
 (D) Initial Shut-In 891 Circ Sub T-Pulled 1635
 (E) Second Initial Flow 155 Hourly Standby T-Out 1833
 (F) Second Final Flow 240 Mileage 56.25 Comments
 (G) Final Shut-In 891 Sampler
 (H) Final Hydrostatic 1501 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer

Initial Open 30 Extra Packer Extra Copies
 Initial Shut-In 30 Extra Recorder Sub Total 0
 Final Flow 45 Day Standby Total 1106.25
 Final Shut-In 45 Accessibility MP/DST Disc't
 Sub Total 1106.25

Approved By Our Representative RAY SCHWAGN *Thank you.*

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. 63958

Well Name & No. Radke #1 Test No. 4 Date 5-28-17
 Company John D. Farmer Inc Elevation 1877 KB 1889 GL
 Address 370 W. Wichita Ave P.O. Box 352 Russell KS 67665-2635
 Co. Rep / Geo. AUSTIN KLAUS Rig Discovery rig 2
 Location: Sec. 28 Twp. 15^s Rge. 14^w Co. Russell State K

Interval Tested 3314-3372 Zone Tested Arbuckle
 Anchor Length 58 Drill Pipe Run 2999 Mud Wt. 9.1
 Top Packer Depth 3314-3309 Drill Collars Run - Vis 60
 Bottom Packer Depth 3372 Wt. Pipe Run 310 WL 9.2
 Total Depth 3410 Chlorides 8000 ppm System LCM 2#

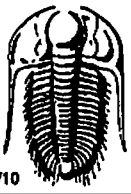
Blow Description IFP - Weak Blow 1/4" To surface Blow
ISIP - NO Blow
FFP - NO Blow
FSTIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>				

Rec Total 20 BHT 99 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1576 Test 1050 T-On Location 0850
 (B) First Initial Flow 14 Jars - T-Started 0925
 (C) First Final Flow 19 Safety Joint - T-Open 1035
 (D) Initial Shut-In 889 Circ Sub - T-Pulled 1235
 (E) Second Initial Flow 20 Hourly Standby - T-Out 1400
 (F) Second Final Flow 24 Mileage 56.25 Comments -
 (G) Final Shut-In 874 Sampler -
 (H) Final Hydrostatic 1550 Straddle 600 Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 0
 Day Standby - Total 1706.25
 Accessibility - MP/DST Disc't -
 Sub Total 1706.25

Approved By _____ Our Representative Ray Schwager Thank you
 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. 63959

Well Name & No. Radke #1 Test No. 5 Date 5-28-17
 Company John O Farmce Inc Elevation 1877 KB 1869 GL
 Address 370 W. Wichita Ave PO Box Russell Ks 67665-2635
 Co. Rep / Geo. Austin Klaus Rig Discovery rig 2
 Location: Sec. 28 Twp. 15^s Rge. 14^w Co. Russell State Ks

Interval Tested 3314-3390 Zone Tested Arbuckle
 Anchor Length 76 Drill Pipe Run 2999 Mud Wt. 9.1
 Top Packer Depth 3314-3309 Drill Collars Run — Vis 60
 Bottom Packer Depth 3390 Wt. Pipe Run 310 WL 9.2
 Total Depth 3410 Chlorides 8000 ppm System LCM 2#
 Blow Description IFP - Weak to BOB in 15 min
ISTP - NO Blow
FFP - Weak to BOB in 20 min
FSTP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>MW</u>		<u>70</u>	<u>30</u>	
<u>430</u>	<u>WATER</u>				

Rec Total 580 BHT Gravity — API RW .19 @ 75 °F Chlorides 34000 ppm

(A) Initial Hydrostatic <u>1643</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1400</u>
(B) First Initial Flow <u>21</u>	<input type="checkbox"/> Jars	T-Started <u>1425</u>
(C) First Final Flow <u>181</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1535</u>
(D) Initial Shut-In <u>1106</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1735</u>
(E) Second Initial Flow <u>191</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1930</u>
(F) Second Final Flow <u>256</u>	<input checked="" type="checkbox"/> Mileage <u>N/C</u>	Comments
(G) Final Shut-In <u>1098</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1567</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1650</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1650</u>	

Approved By _____

Our Representative RAY SCHWAGN

Thank you

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