



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W. Wichita Ave
PO Box 352
Russell KS 67665-2635

ATTN: JO FarmerIV, Jason AI

Dreiling C#1

24-12s-16w Ellis,KS

Start Date: 2017.01.09 @ 14:50:22

End Date: 2017.01.09 @ 21:50:16

Job Ticket #: 64084 DST #: 1

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

Printed: 2017.01.12 @ 13:23:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc
 370 W. Wichita Ave
 PO Box 352
 Russell KS 67665-2635
 ATTN: JO Farmer IV, Jason AI

24-12s-16w Ellis, KS

Dreiling C#1

Job Ticket: 64084

DST#: 1

Test Start: 2017.01.09 @ 14:50:22

GENERAL INFORMATION:

Formation: **LKC A-C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:03:47
 Time Test Ended: 21:50:16
 Interval: **3045.00 ft (KB) To 3110.00 ft (KB) (TVD)**
 Total Depth: 3110.00 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: 1853.00 ft (KB)
 1845.00 ft (CF)
 KB to GR/CF: 8.00 ft

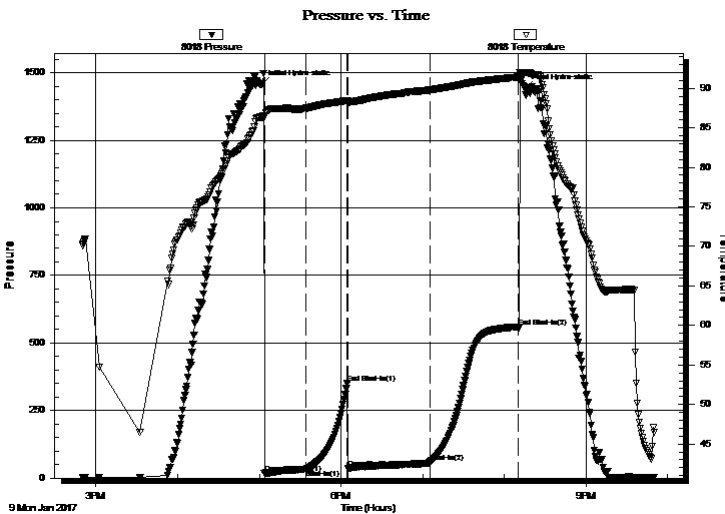
Serial #: 8018

Inside

Press@RunDepth: 60.42 psig @ 3049.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.09 End Date: 2017.01.09 Last Calib.: 2017.01.09
 Start Time: 14:50:22 End Time: 21:50:16 Time On Btm: 2017.01.09 @ 17:01:47
 Time Off Btm: 2017.01.09 @ 20:15:16

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 1 1/2" bl
 30-ISIP-no bl
 60-FFP-w k to a fr bl 2 1/2" to 4" bl
 60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1456.15	86.36	Initial Hydro-static
2	17.90	86.43	Open To Flow (1)
32	33.65	87.45	Shut-In(1)
63	350.86	88.44	End Shut-In(1)
64	37.27	88.30	Open To Flow (2)
124	60.42	89.79	Shut-In(2)
189	560.12	91.42	End Shut-In(2)
194	1442.38	92.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	OCGM 30% G10% O60% M	0.59
0.00	235' 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

24-12s-16w Ellis,KS

370 W.Wichita Ave
PO Box 352
Russell KS 67665-2635
ATTN: JO FarmerIV,Jason AI

Dreiling C#1

Job Ticket: 64084

DST#: 1

Test Start: 2017.01.09 @ 14:50:22

Tool Information

Drill Pipe:	Length: 2771.00 ft	Diameter: 3.80 inches	Volume: 38.87 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 280.00 ft	Diameter: 2.75 inches	Volume: 2.06 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: 40.93 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3045.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 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			3025.00	
Shut In Tool	5.00			3030.00	
Hydraulic tool	5.00			3035.00	
Packer	5.00			3040.00	21.00 Bottom Of Top Packer
Packer	5.00			3045.00	
Stubb	1.00			3046.00	
Perforations	3.00			3049.00	
Recorder	0.00	8018	Inside	3049.00	
Recorder	0.00	8700	Outside	3049.00	
Blank Spacing	33.00			3082.00	
Perforations	25.00			3107.00	
Bullnose	3.00			3110.00	65.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

24-12s-16w Ellis,KS

370 W.Wichita Ave
PO Box 352
Russell KS 67665-2635
ATTN: JO FarmerIV,Jason AI

Dreiling C#1

Job Ticket: 64084

DST#: 1

Test Start: 2017.01.09 @ 14:50:22

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 8.71 in³
Resistivity: ohm.m
Salinity: 8500.00 ppm
Filter Cake: 1.00 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

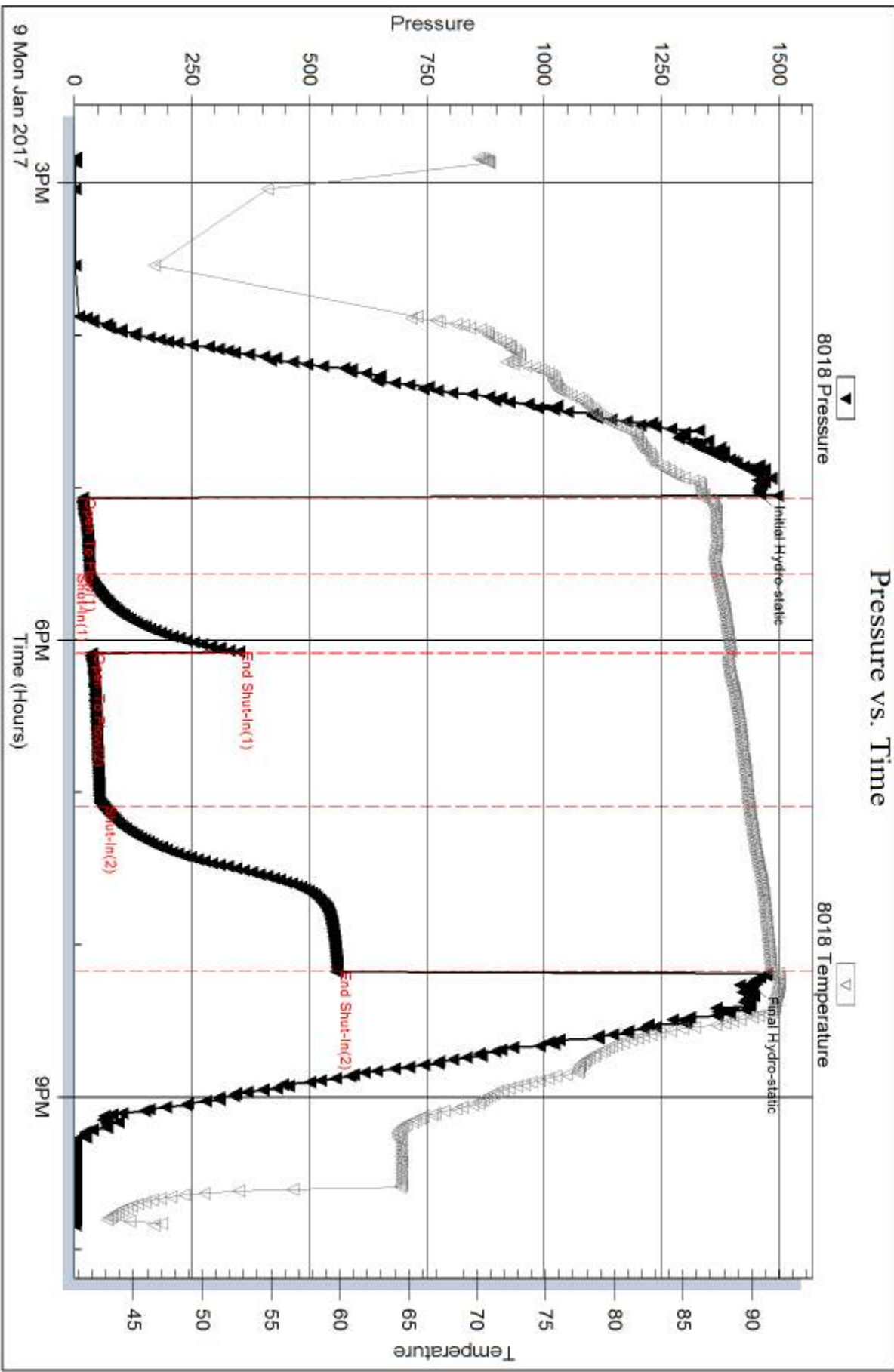
Length ft	Description	Volume bbl
80.00	OCGM 30%G10%O60%M	0.588
0.00	235'GIP	0.000

Total Length: 80.00 ft Total Volume: 0.588 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: slid tool 10' to bottom

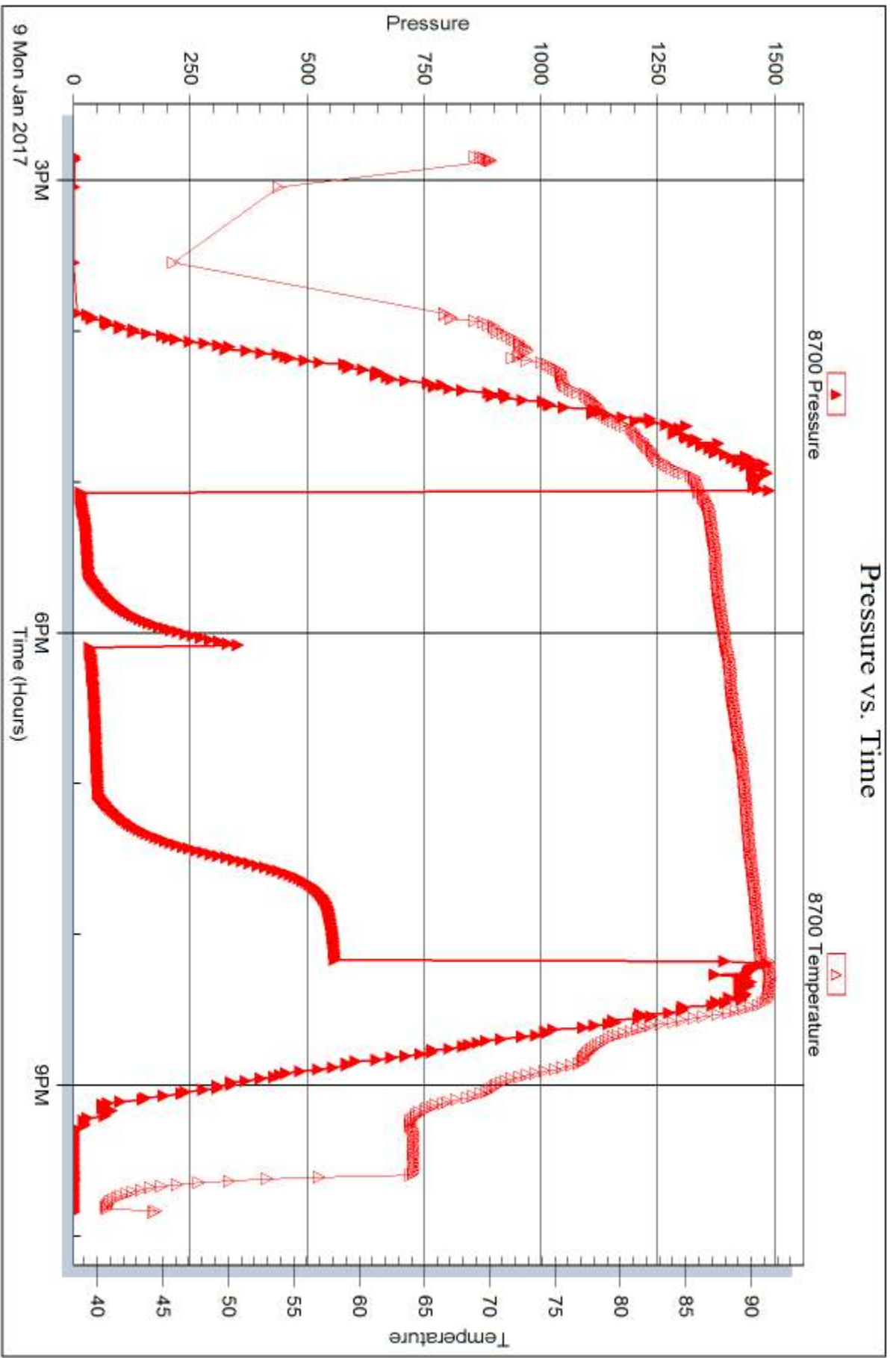


Serial #: 8700

Outside John O Farmer Inc

Drilling C#1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64084

Printed: 2017.01.12 @ 13:23:22



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W. Wichita Ave
PO Box 352
Russell KS 67665-2635

ATTN: JO FarmerIV, Jason AI

Dreiling C#1

24-12s-16w Ellis,KS

Start Date: 2017.01.10 @ 05:35:46

End Date: 2017.01.10 @ 13:06:10

Job Ticket #: 64085 DST #: 2

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

John O Farmer Inc
370 W. Wichita Ave
PO Box 352
Russell KS 67665-2635
ATTN: JO Farmer IV, Jason AI

24-12s-16w Ellis, KS

Dreiling C#1

Job Ticket: 64085

DST#: 2

Test Start: 2017.01.10 @ 05:35:46

GENERAL INFORMATION:

Formation: **LKC D-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:17:11
 Time Test Ended: 13:06:10
 Interval: **3104.00 ft (KB) To 3158.00 ft (KB) (TVD)**
 Total Depth: 3158.00 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: 1853.00 ft (KB)
 1845.00 ft (CF)
 KB to GR/CF: 8.00 ft

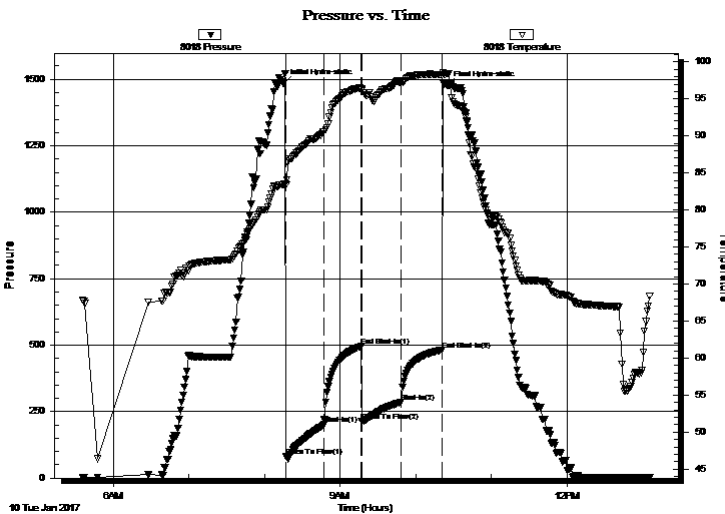
Serial #: 8018

Inside

Press@RunDepth: 286.33 psig @ 3108.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.01.10 End Date: 2017.01.10 Last Calib.: 2017.01.10
 Start Time: 05:35:46 End Time: 13:06:10 Time On Btm: 2017.01.10 @ 08:15:11
 Time Off Btm: 2017.01.10 @ 10:24:55

TEST COMMENT: 30-IFP-strg bl in 1 min
 30-ISIP-strg bl bk , 8 min into
 30-FFP-strg bl thru-out
 30-FSIP-strg bl bk ,GTS 2 min into

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1483.28	83.47	Initial Hydro-static
2	81.43	83.43	Open To Flow (1)
32	201.15	90.59	Shut-In(1)
62	495.24	96.43	End Shut-In(1)
62	213.80	96.31	Open To Flow (2)
94	286.33	97.20	Shut-In(2)
126	482.70	98.22	End Shut-In(2)
130	1476.36	98.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	SO&GCMW 15%G2%O10%M73%W	0.66
280.00	GMO 50%G10%M5%W35%O	2.66
310.00	CO	4.35
0.00	GTS	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc
370 W. Wichita Ave
PO Box 352
Russell KS 67665-2635
ATTN: JO Farmer IV, Jason AI

24-12s-16w Ellis, KS
Dreiling C#1
Job Ticket: 64085 **DST#: 2**
Test Start: 2017.01.10 @ 05:35:46

Tool Information

Drill Pipe:	Length: 2834.00 ft	Diameter: 3.80 inches	Volume: 39.75 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 280.00 ft	Diameter: 2.75 inches	Volume: 2.06 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: 41.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3104.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	75.00 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			3084.00	
Shut In Tool	5.00			3089.00	
Hydraulic tool	5.00			3094.00	
Packer	5.00			3099.00	21.00 Bottom Of Top Packer
Packer	5.00			3104.00	
Stubb	1.00			3105.00	
Perforations	3.00			3108.00	
Recorder	0.00	8018	Inside	3108.00	
Recorder	0.00	8700	Outside	3108.00	
Blank Spacing	33.00			3141.00	
Perforations	14.00			3155.00	
Bullnose	3.00			3158.00	54.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

24-12s-16w Ellis,KS

370 W.Wichita Ave
PO Box 352
Russell KS 67665-2635
ATTN: JO FarmerIV,Jason AI

Dreiling C#1

Job Ticket: 64085

DST#: 2

Test Start: 2017.01.10 @ 05:35:46

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 8.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.76 in³
Resistivity: ohm.m
Salinity: 8500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 37 deg API
Water Salinity: 90000 ppm

Recovery Information

Recovery Table

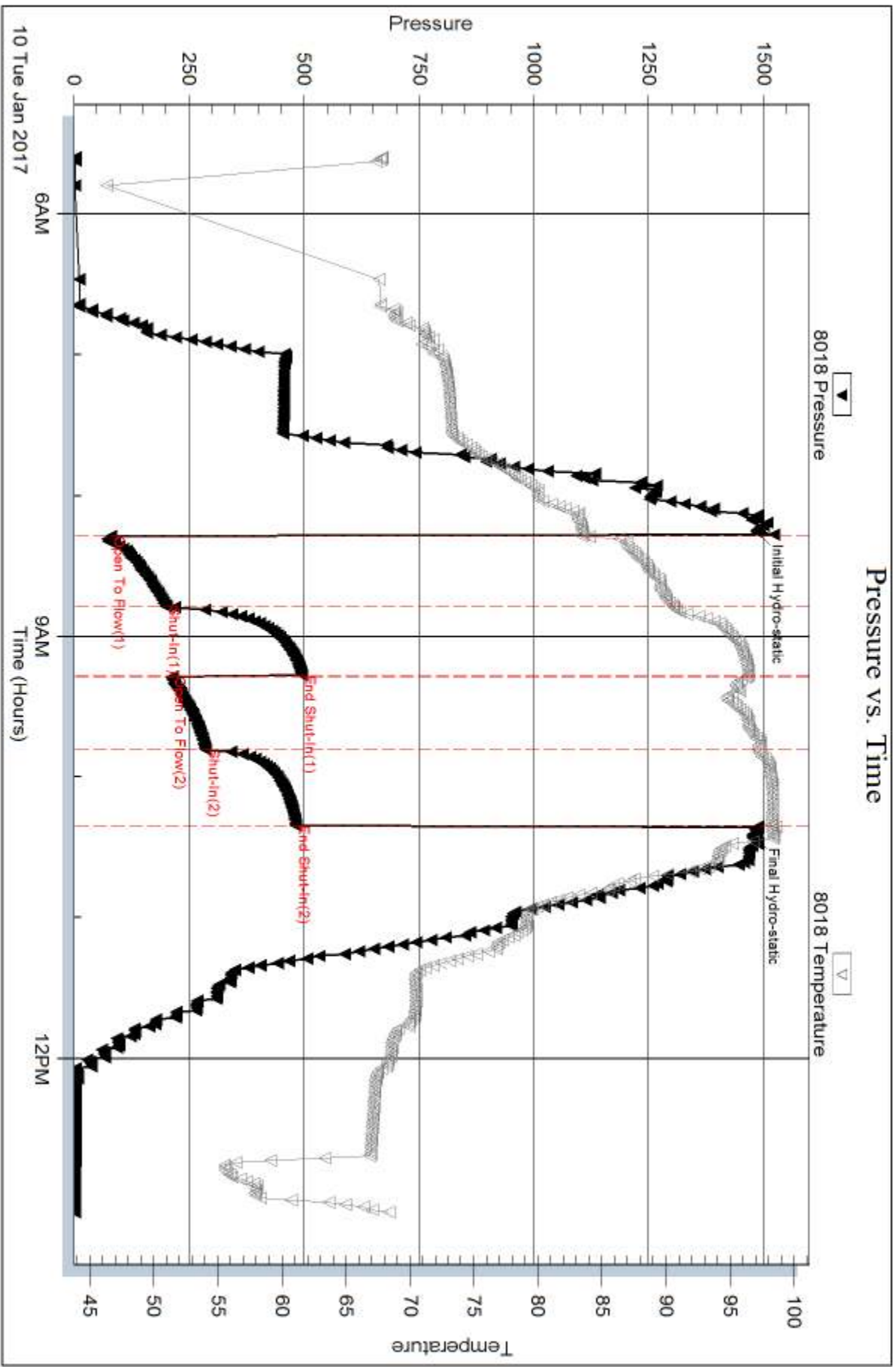
Length ft	Description	Volume bbl
90.00	SO&GCMW 15%G2%O10%M73%W	0.661
280.00	GMO 50%G10%M5%W35%O	2.658
310.00	CO	4.348
0.00	GTS	0.000

Total Length: 680.00 ft Total Volume: 7.667 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW .08@75F

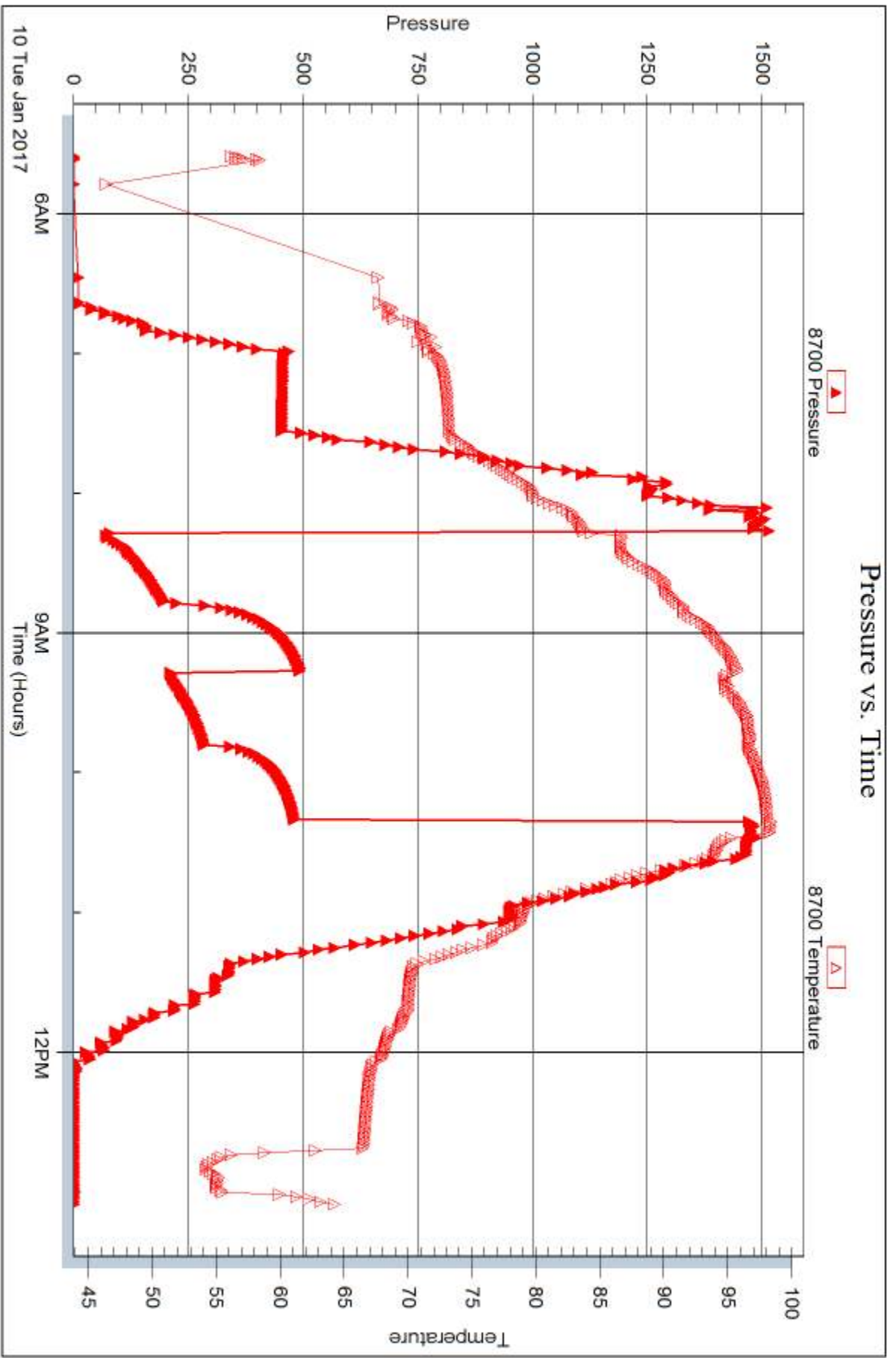


Serial #: 8700

Outside John O Farmer Inc

Drilling C#1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64085

Printed: 2017.01.12 @ 13:22:52



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W. Wichita Ave
PO Box 352
Russell KS 67665-2635

ATTN: JO FarmerIV, Jason AI

Dreiling C#1

24-12s-16w Ellis,KS

Start Date: 2017.01.11 @ 12:15:27

End Date: 2017.01.11 @ 18:03:06

Job Ticket #: 64086 DST #: 3

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

Printed: 2017.01.12 @ 13:22:24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc
 370 W. Wichita Ave
 PO Box 352
 Russell KS 67665-2635
 ATTN: JO Farmer IV, Jason AI

24-12s-16w Ellis, KS

Dreiling C#1

Job Ticket: 64086

DST#: 3

Test Start: 2017.01.11 @ 12:15:27

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:17:07

Time Test Ended: 18:03:06

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 3346.00 ft (KB) To 3360.00 ft (KB) (TVD)

Reference Elevations: 1853.00 ft (KB)

Total Depth: 3418.00 ft (KB) (TVD)

1845.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018 Inside

Press@RunDepth: 25.45 psig @ 3351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.11

End Date:

2017.01.11

Last Calib.: 2017.01.11

Start Time: 12:15:27

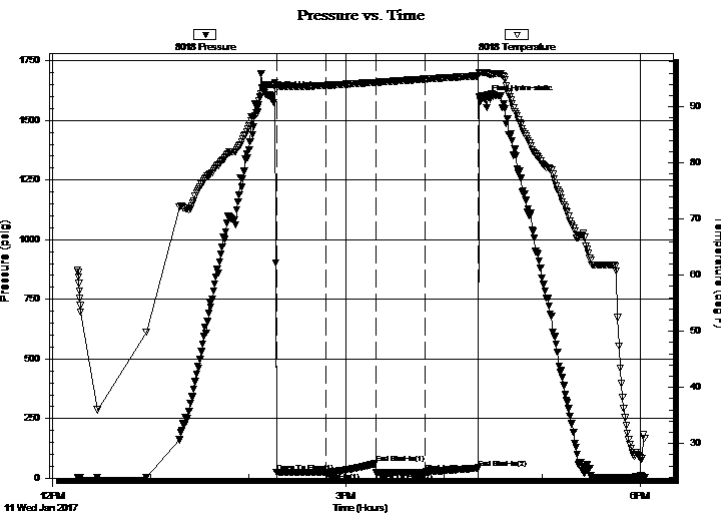
End Time:

18:03:06

Time On Btm: 2017.01.11 @ 14:14:22

Time Off Btm: 2017.01.11 @ 16:24:52

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 1 1/4" bl
 30-ISIP-no bl
 30-FFP-no bl
 30-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1605.25	93.90	Initial Hydro-static
3	23.18	93.86	Open To Flow (1)
34	24.43	93.81	Shut-In(1)
64	61.14	94.36	End Shut-In(1)
64	24.96	94.34	Open To Flow (2)
94	25.45	94.92	Shut-In(2)
127	42.93	95.51	End Shut-In(2)
131	1587.90	96.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/show of oil	0.07

* 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

24-12s-16w Ellis, KS

370 W. Wichita Ave
PO Box 352
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ATTN: JO Farmer IV, Jason AI

Dreiling C#1

Job Ticket: 64086 **DST#: 3**

Test Start: 2017.01.11 @ 12:15:27

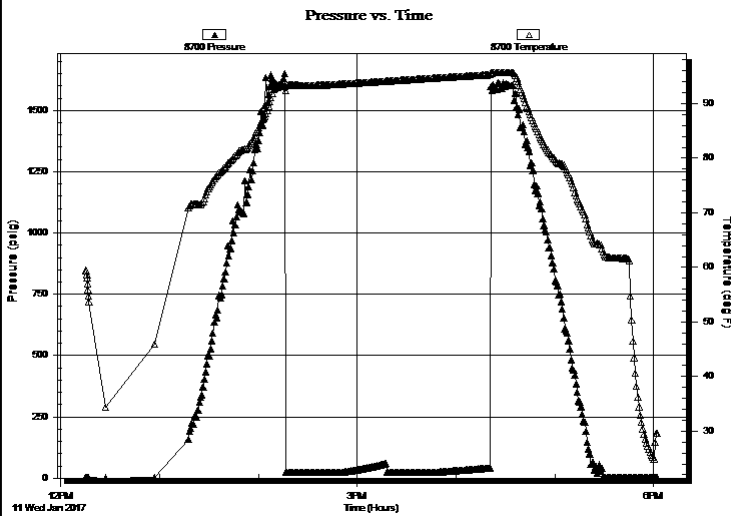
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:17:07
Time Test Ended: 18:03:06
Test Type: Conventional Straddle (Reset)
Tester: Ray Schwager
Unit No: 77
Interval: **3346.00 ft (KB) To 3360.00 ft (KB) (TVD)**
Reference Elevations: 1853.00 ft (KB)
1845.00 ft (CF)
Total Depth: 3418.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Fair
KB to GR/CF: 8.00 ft

Serial #: 8700 Outside
Press@RunDepth: psig @ 3351.00 ft (KB)
Capacity: 8000.00 psig
Start Date: 2017.01.11 End Date: 2017.01.11 Last Calib.: 2017.01.11
Start Time: 12:15:17 End Time: 18:02:56
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 1 1/4" 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)
10.00	Mud w/show of oil	0.07

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

John O Farmer Inc

24-12s-16w Ellis,KS

370 W. Wichita Ave
PO Box 352
Russell KS 67665-2635
ATTN: JO Farmer IV, Jason AI

Dreiling C#1

Job Ticket: 64086

DST#: 3

Test Start: 2017.01.11 @ 12:15:27

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Straddle (Reset)

Time Tool Opened: 14:17:07

Tester: Ray Schwager

Time Test Ended: 18:03:06

Unit No: 77

Interval: 3346.00 ft (KB) To 3360.00 ft (KB) (TVD)

Reference Elevations: 1853.00 ft (KB)

Total Depth: 3418.00 ft (KB) (TVD)

1845.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8374 Below (Straddle)

Press@RunDepth: psig @ 3386.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.01.11

End Date: 2017.01.11

Last Calib.: 2017.01.11

Start Time: 12:15:26

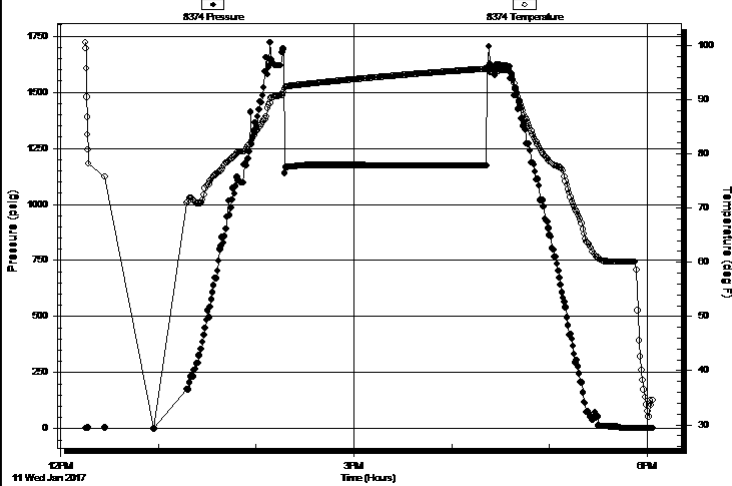
End Time: 18:03:20

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1/2" to 1 1/4" 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)
10.00	Mud w/show of oil	0.07

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

24-12s-16w Ellis,KS

370 W.Wichita Ave
PO Box 352
Russell KS 67665-2635
ATTN: JO Farmer IV, Jason AI

Dreiling C#1

Job Ticket: 64086

DST#: 3

Test Start: 2017.01.11 @ 12:15:27

Tool Information

Drill Pipe:	Length: 3054.00 ft	Diameter: 3.80 inches	Volume: 42.84 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 280.00 ft	Diameter: 2.75 inches	Volume: 2.06 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: 44.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3346.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	3360.00 ft			
Interval between Packers:	14.00 ft			
Tool Length:	97.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3326.00	
Shut In Tool	5.00			3331.00	
Hydraulic tool	5.00			3336.00	
Packer	5.00			3341.00	21.00 Bottom Of Top Packer
Packer	5.00			3346.00	
Stubb	1.00			3347.00	
Perforations	4.00			3351.00	
Recorder	0.00	8018	Inside	3351.00	
Recorder	0.00	8700	Outside	3351.00	
Perforations	5.00			3356.00	
Blank Off Sub	1.00			3357.00	
Blank Spacing	3.00			3360.00	14.00 Tool Interval
Packer	5.00			3365.00	
Stubb	1.00			3366.00	
Perforations	20.00			3386.00	
Recorder	0.00	8374	Below	3386.00	
Blank Spacing	33.00			3419.00	
Bullnose	3.00			3422.00	62.00 Bottom Packers & Anchor

Total Tool Length: 97.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

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ATTN: JO FarmerIV,Jason AI

Dreiling C#1

Job Ticket: 64086

DST#: 3

Test Start: 2017.01.11 @ 12:15:27

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 8.37 in³

Resistivity: ohm.m

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w/show of oil	0.073

Total Length: 10.00 ft Total Volume: 0.073 bbl

Num Fluid Samples: 0

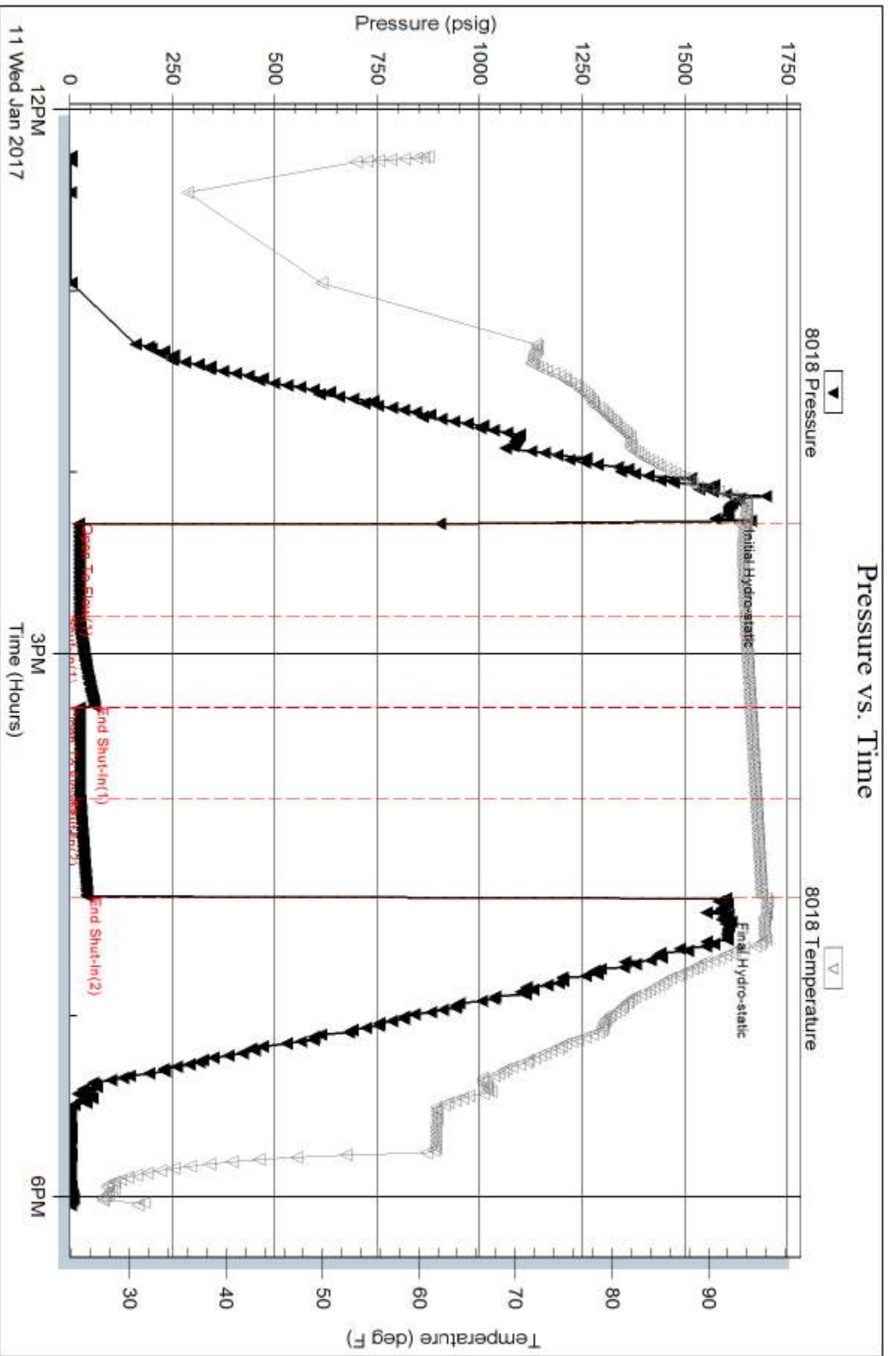
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



12PM
11 Wed Jan 2017

3PM
Time (Hours)

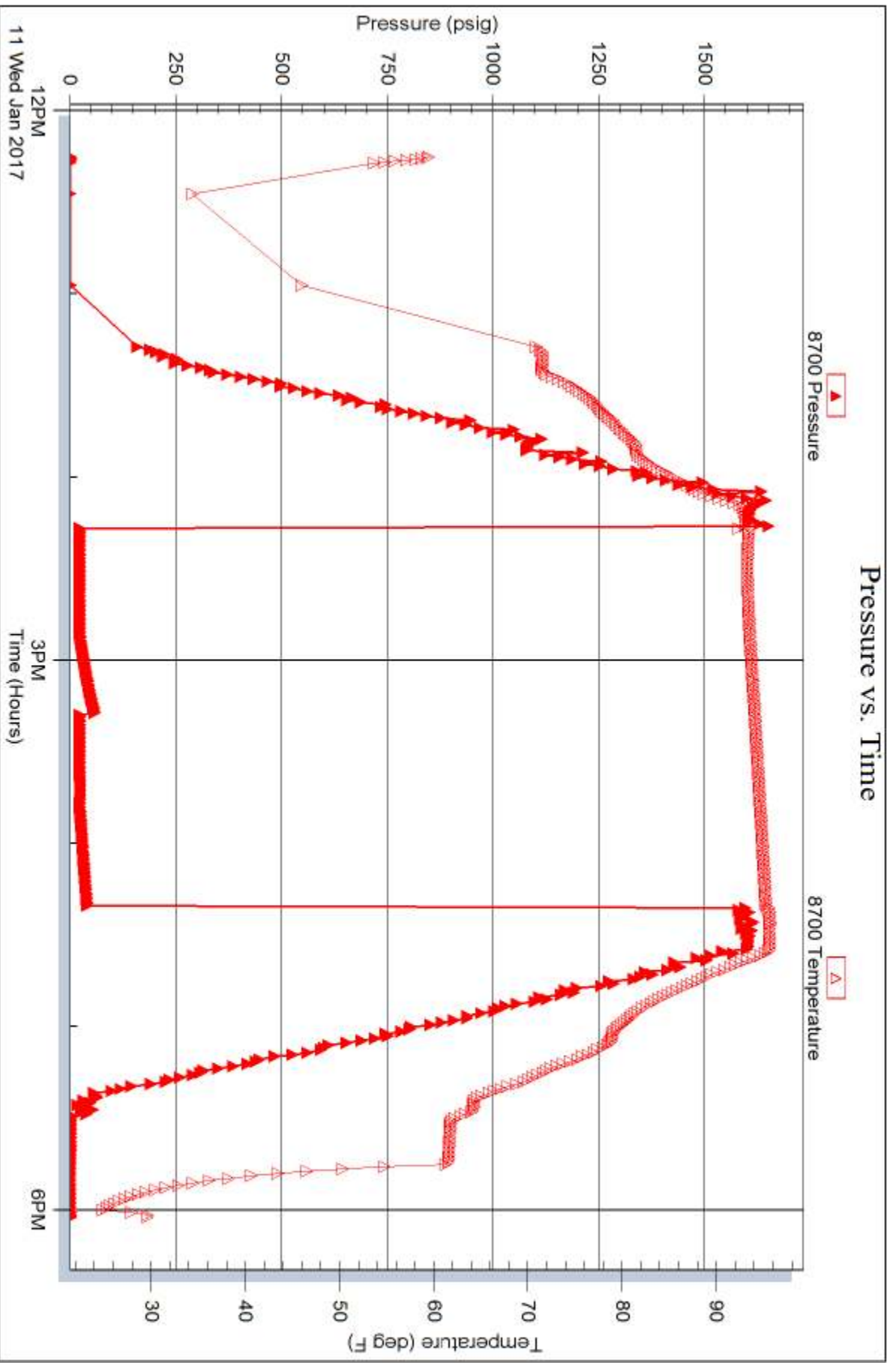
6PM

Serial #: 8700

Outside John O Farmer Inc

Drilling C#1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64086

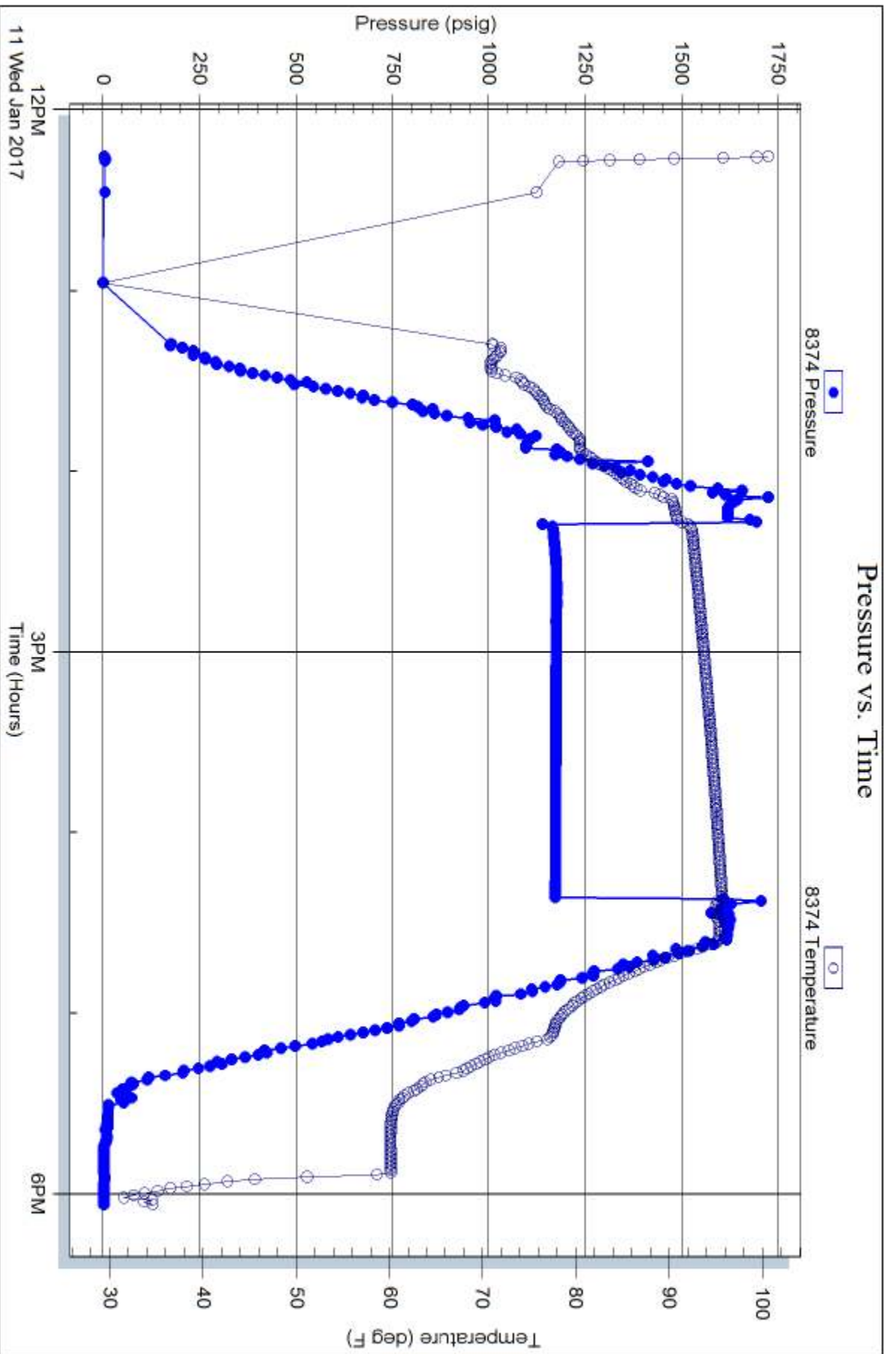
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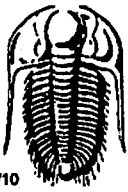
Serial #: 8374

Below (Straddled) Farmer Inc

Drilling C#1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64084

Well Name & No. Dreiling C#1 Test No. 1 Date 1-9-2017
 Company John D. Farmer Inc Elevation 1853 KB 1845 GL
 Address 370 W. Wichita Ave PO Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Jason Alm Rig Discovery rig
 Location: Sec. 24 Twp. 12^s Rge. 16^w Co. Ellis State Ks

Interval Tested 3045-3110 Zone Tested LKC A-C
 Anchor Length 65 Drill Pipe Run 2771 Mud Wt. 8.9
 Top Packer Depth 3040 Drill Collars Run - Vis 52
 Bottom Packer Depth 3045 Wt. Pipe Run 280 WL 8.8
 Total Depth 3110 Chlorides 8500 ppm System LCM 2 1/2#
 Blow Description IFP - WEAK BLOW THRU-OUT 1/4" TO 1/2 BLOW
ISIP - NO BLOW
FFP - WEAK TO A FAIR BLOW 2 1/2" TO 4" BLOW
FSTIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>235</u>	<u>GIP</u>				
<u>80</u>	<u>OCGM</u>	<u>30</u>	<u>10</u>		<u>60</u>
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 _____ Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1456 Test 1050 T-On Location 1325
 (B) First Initial Flow 17 Jars _____ T-Started 1450
 (C) First Final Flow 33 Safety Joint _____ T-Open 1705
 (D) Initial Shut-In 350 Circ Sub _____ T-Pulled 2005
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 2150
 (F) Second Final Flow 60 Mileage 45 RT 33.75 Comments _____
 (G) Final Shut-In 560 Sampler _____
 (H) Final Hydrostatic 1442 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 1083.75
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1083.75

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. 64085

Well Name & No. Dreiling C#1 Test No. 2 Date 1-10-2017
 Company John O. Farmer Inc Elevation 1853 KB 1845 GL
 Address 370 W. Wichita Ave PO Box 352 Russell Ks 67665-2635
 Co. Rep / Geo. Jason Alm Rig Discovery r.g 1
 Location: Sec. 24 Twp. 12^s Rge. 16^w Co. Ellis State Ko

Interval Tested 3104-3158 Zone Tested LKC 0-F
 Anchor Length 54 Drill Pipe Run 2834 Mud Wt. 8.4
 Top Packer Depth 3099 Drill Collars Run - Vis 51
 Bottom Packer Depth 3104 Wt. Pipe Run 280 WL 8.8
 Total Depth 3158 Chlorides 8500 ppm System LCM 2#

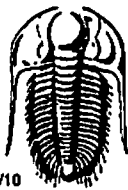
Blow Description TFP - STRONG BLOW IN 1min
TSP - STRONG BLOW BACK 8min into
FFP - STRONG BLOW THRU-OUT
FSTP - STRONG BLOW BACK 6TS 2min into

Rec	Feet of	%gas	%oil	%water	%mud
	<u>GTS</u>				
Rec <u>310</u>	Feet of <u>CO</u>				
Rec <u>280</u>	Feet of <u>GMO</u>	<u>50</u> %gas	<u>35</u> %oil	<u>5</u> %water	<u>10</u> %mud
Rec <u>90</u>	Feet of <u>50+GCMW</u>	<u>15</u> %gas	<u>2</u> %oil	<u>73</u> %water	<u>10</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 680 BHT 98 Gravity 37 API RW .08 @ 75 °F Chlorides 90000 ppm
 Test 1050 T-On Location 0520
 Jars T-Started 0535
 Safety Joint T-Open 0815
 Circ Sub T-Pulled 1015
 Hourly Standby T-Out 1306
 Mileage 45RT 33.75 Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1083.75 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Approved By _____ Our Representative Ray Schwager *Thank you*

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64086

Well Name & No. DREILING "C" #1 Test No. 3 Date 1-11-2017
 Company John O. Farmer Inc Elevation 1853 KB 1845 GL
 Address 370 W. WICHITA AVE PO Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Jasen Alm Rig Discovery rig 1
 Location: Sec. 24 Twp. 12^s Rge. 16^w Co. ELLIS State Ks

Interval Tested 3346-3360 Zone Tested Arbuckle
 Anchor Length 14 Drill Pipe Run 3054 Mud Wt. 9
 Top Packer Depth 3346-3341 Drill Collars Run - Vis 56
 Bottom Packer Depth 3360 Wt. Pipe Run 280 WL 8.4
 Total Depth 3418 Chlorides 9000 ppm System LCM 4#
 Blow Description IFP - WEAK BLOW thru-out 1/2" to 1/4" blow
ISIP - NO BLOW
FFP - NO BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
10	Mud				
	w/ slight show of oil				

Rec Total 10 BHT 95 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1605</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1105</u>
(B) First Initial Flow <u>23</u>	<input type="checkbox"/> Jars	T-Started <u>1215</u>
(C) First Final Flow <u>24</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1415</u>
(D) Initial Shut-In <u>61</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1615</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1803</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>33.75</u>	Comments
(G) Final Shut-In <u>42</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1587</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1683.75</u>
	Sub Total <u>1683.75</u>	MP/DST Disc't

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

Approved By _____ Our Representative RAY SCHWAGN *THANK YOU*

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