



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave
Russell, KS 67665

ATTN: Austin Klaus

Potter K #1

25-17s-25w Ness,KS.

Start Date: 2013.09.24 @ 01:31:51

End Date: 2013.09.24 @ 07:47:51

Job Ticket #: 54939 DST #: 1

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

Printed: 2013.09.25 @ 14:39:48



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc

25-17s-25w Ness,KS.

370 W Wichita Ave
Russell, KS 67665

Potter K #1

Job Ticket: 54939

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.09.24 @ 01:31:51

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:46:51

Time Test Ended: 07:47:51

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 60

Interval: 4296.00 ft (KB) To 4346.00 ft (KB) (TVD)

Reference Elevations: 2492.00 ft (KB)

Total Depth: 4346.00 ft (KB) (TVD)

2484.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 28.73 psig @ 4297.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.24

End Date:

2013.09.24

Last Calib.:

2013.09.24

Start Time: 01:31:56

End Time:

07:47:50

Time On Btm:

2013.09.24 @ 03:45:51

Time Off Btm:

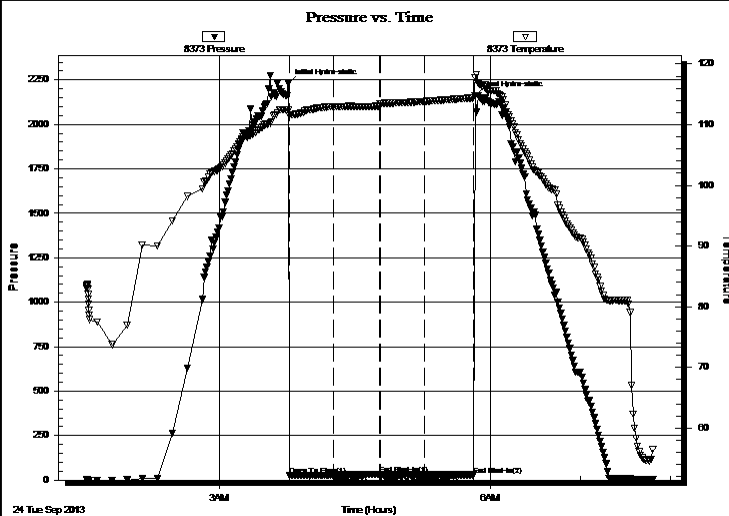
2013.09.24 @ 05:49:51

TEST COMMENT: IF: Surface blow died in 9 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2230.43	112.39	Initial Hydro-static
1	26.87	111.50	Open To Flow (1)
30	28.68	112.98	Shut-In(1)
61	33.17	113.06	End Shut-In(1)
61	29.35	113.46	Open To Flow (2)
91	28.73	113.83	Shut-In(2)
123	29.63	114.40	End Shut-In(2)
124	2162.80	117.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud oil spots 100%m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

25-17s-25w Ness,KS.

370 W Wichita Ave
Russell, KS 67665

Potter K #1

Job Ticket: 54939

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.09.24 @ 01:31:51

Tool Information

Drill Pipe:	Length: 4275.00 ft	Diameter: 3.80 inches	Volume: 59.97 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4296.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 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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Stubb	1.00			4277.00	
Shut In Tool	5.00			4282.00	
Hydraulic tool	5.00			4287.00	
Packer	5.00			4292.00	20.00 Bottom Of Top Packer
Packer	4.00			4296.00	
Stubb	1.00			4297.00	
Recorder	0.00	8373	Inside	4297.00	
Recorder	0.00	8356	Outside	4297.00	
Perforations	10.00			4307.00	
Change Over Sub	1.00			4308.00	
Drill Pipe	32.00			4340.00	
Change Over Sub	1.00			4341.00	
Bullnose	5.00			4346.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



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FLUID SUMMARY

John O Farmer Inc

25-17s-25w Ness,KS.

370 W Wichita Ave
Russell, KS 67665

Potter K #1

Job Ticket: 54939

DST#: 1

ATTN: Austin Klaus

Test Start: 2013.09.24 @ 01:31:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud oil spots 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

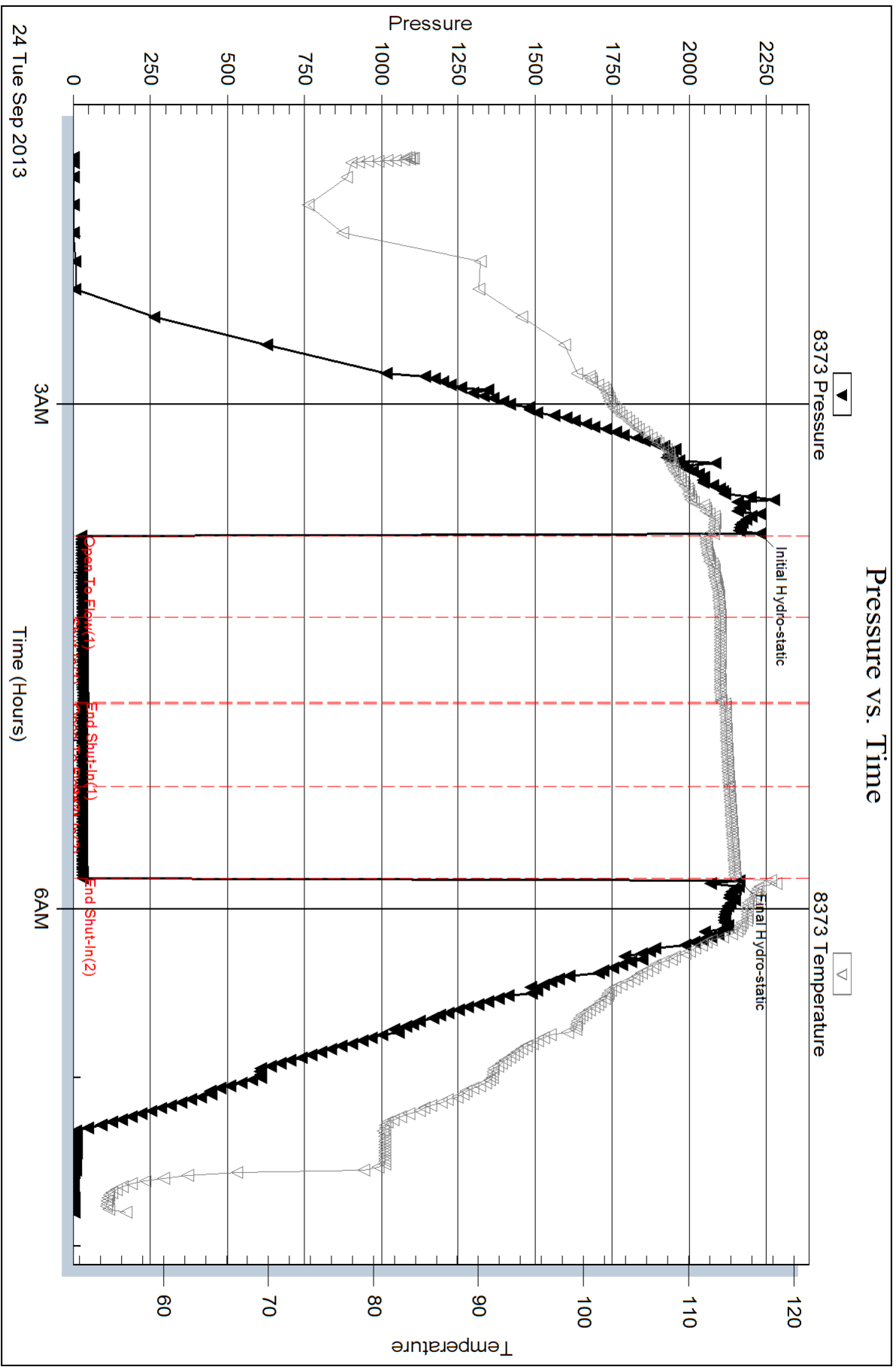
Num Gas Bombs: 0

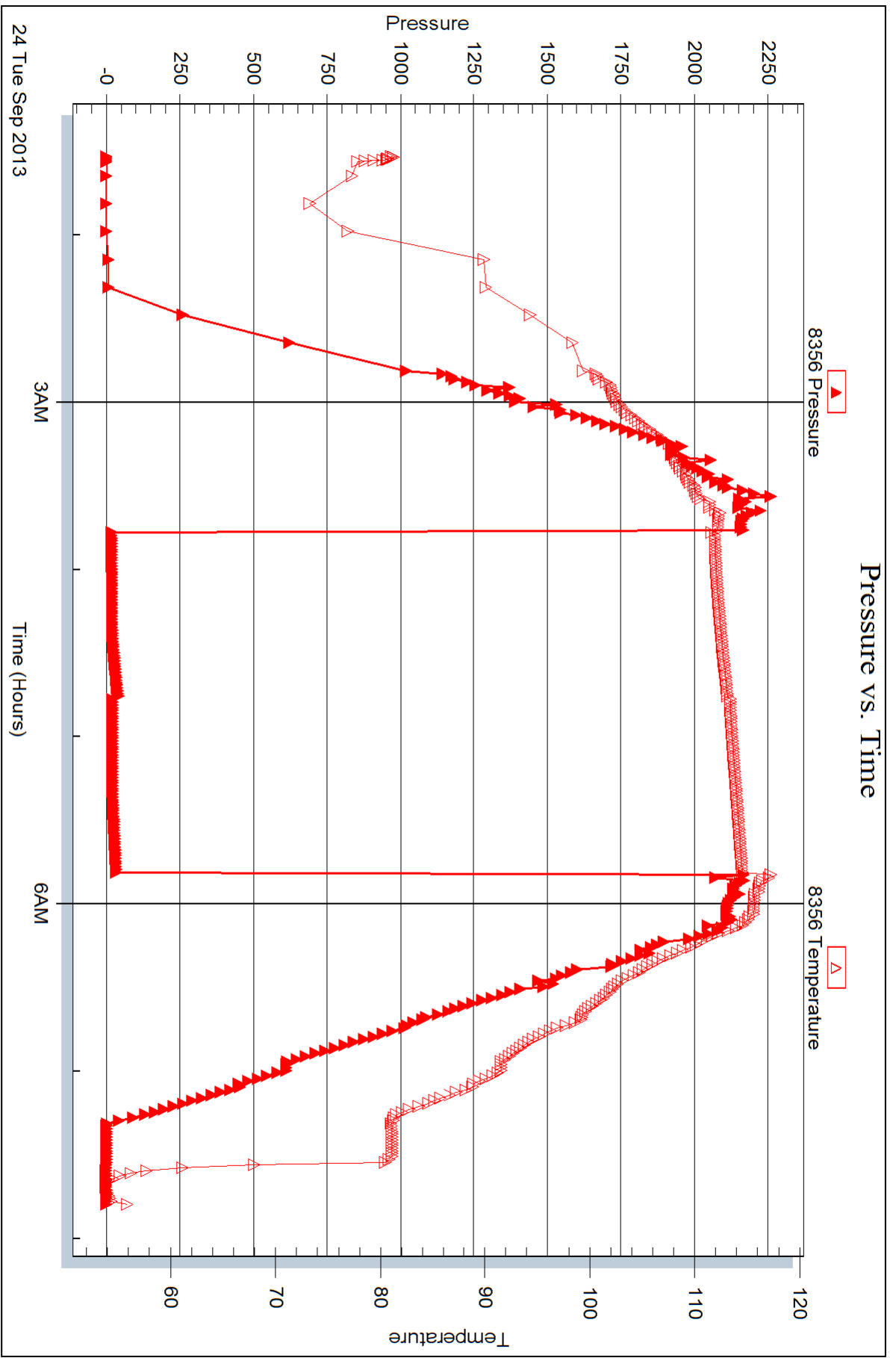
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

370 W Wichita Ave
Russell, KS 67665

ATTN: Austin Klaus

Potter K #1

25-17s-25w Ness,KS.

Start Date: 2013.09.25 @ 04:28:15

End Date: 2013.09.25 @ 11:50:45

Job Ticket #: 54940 DST #: 2

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

Printed: 2013.09.25 @ 14:39:07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer Inc

25-17s-25w Ness,KS.

370 W Wichita Ave
Russell, KS 67665

Potter K #1

Job Ticket: 54940

DST#: 2

ATTN: Austin Klaus

Test Start: 2013.09.25 @ 04:28:15

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:12:45

Time Test Ended: 11:50:45

Test Type: Conventional Straddle (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: 4466.00 ft (KB) To 4434.00 ft (KB) (TVD)

Reference Elevations: 2492.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

2484.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 86.39 psig @ 4367.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.25

End Date:

2013.09.25

Last Calib.:

2013.09.25

Start Time: 04:28:20

End Time:

11:50:44

Time On Btm:

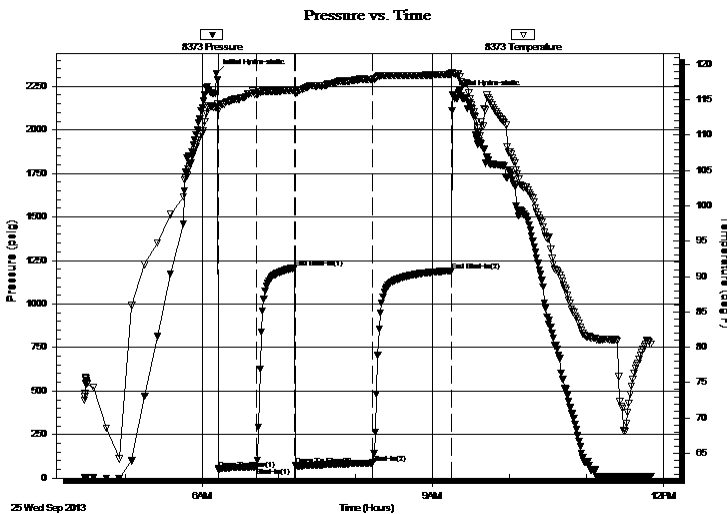
2013.09.25 @ 06:11:15

Time Off Btm:

2013.09.25 @ 09:15:45

TEST COMMENT: IF: 1/4" blow built to 5"
IS: No return.
FF: Surface blow built to 8"
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2324.91	113.97	Initial Hydro-static
2	52.14	113.87	Open To Flow (1)
31	63.98	115.77	Shut-In(1)
61	1207.41	116.34	End Shut-In(1)
62	71.08	115.89	Open To Flow (2)
122	86.39	117.84	Shut-In(2)
184	1191.37	118.63	End Shut-In(2)
185	2201.56	118.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	gocm 10%g 30%g 60%m	0.59
42.00	ocm 10%o 90%m	0.59
20.00	oil 100%o	0.28
0.00	62 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

25-17s-25w Ness,KS.

370 W Wichita Ave
Russell, KS 67665

Potter K #1

Job Ticket: 54940

DST#: 2

ATTN: Austin Klaus

Test Start: 2013.09.25 @ 04:28:15

Tool Information

Drill Pipe:	Length: 4330.00 ft	Diameter: 3.80 inches	Volume: 60.74 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4366.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	4430.00 ft			
Interval between Packers:	64.00 ft			
Tool Length:	172.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4339.00	
Shut In Tool	5.00			4344.00	
Hydraulic tool	5.00			4349.00	
Jars	5.00			4354.00	
Safety Joint	3.00			4357.00	
Packer	5.00			4362.00	28.00 Bottom Of Top Packer
Packer	4.00			4366.00	
Stubb	1.00			4367.00	
Recorder	0.00	8373	Inside	4367.00	
Recorder	0.00	8356	Outside	4367.00	
Perforations	5.00			4372.00	
Change Over Sub	1.00			4373.00	
Drill Pipe	32.00			4405.00	
Change Over Sub	1.00			4406.00	
Perforations	23.00			4429.00	
Blank Off Sub	1.00			4430.00	64.00 Tool Interval
Packer	4.00			4434.00	
Stubb	1.00			4435.00	
Perforations	4.00			4439.00	
Change Over Sub	1.00			4440.00	
Recorder	0.00	8645	Below	4440.00	
Drill Pipe	64.00			4504.00	
Change Over Sub	1.00			4505.00	
Bullnose	5.00			4510.00	80.00 Bottom Packers & Anchor
Total Tool Length:	172.00				



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Potter K #1

Job Ticket: 54940

DST#: 2

ATTN: Austin Klaus

Test Start: 2013.09.25 @ 04:28:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	gocm 10%g 30%g 60%m	0.587
42.00	ocm 10%o 90%m	0.589
20.00	oil 100%o	0.281
0.00	62 GIP	0.000

Total Length: 124.00 ft

Total Volume: 1.457 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

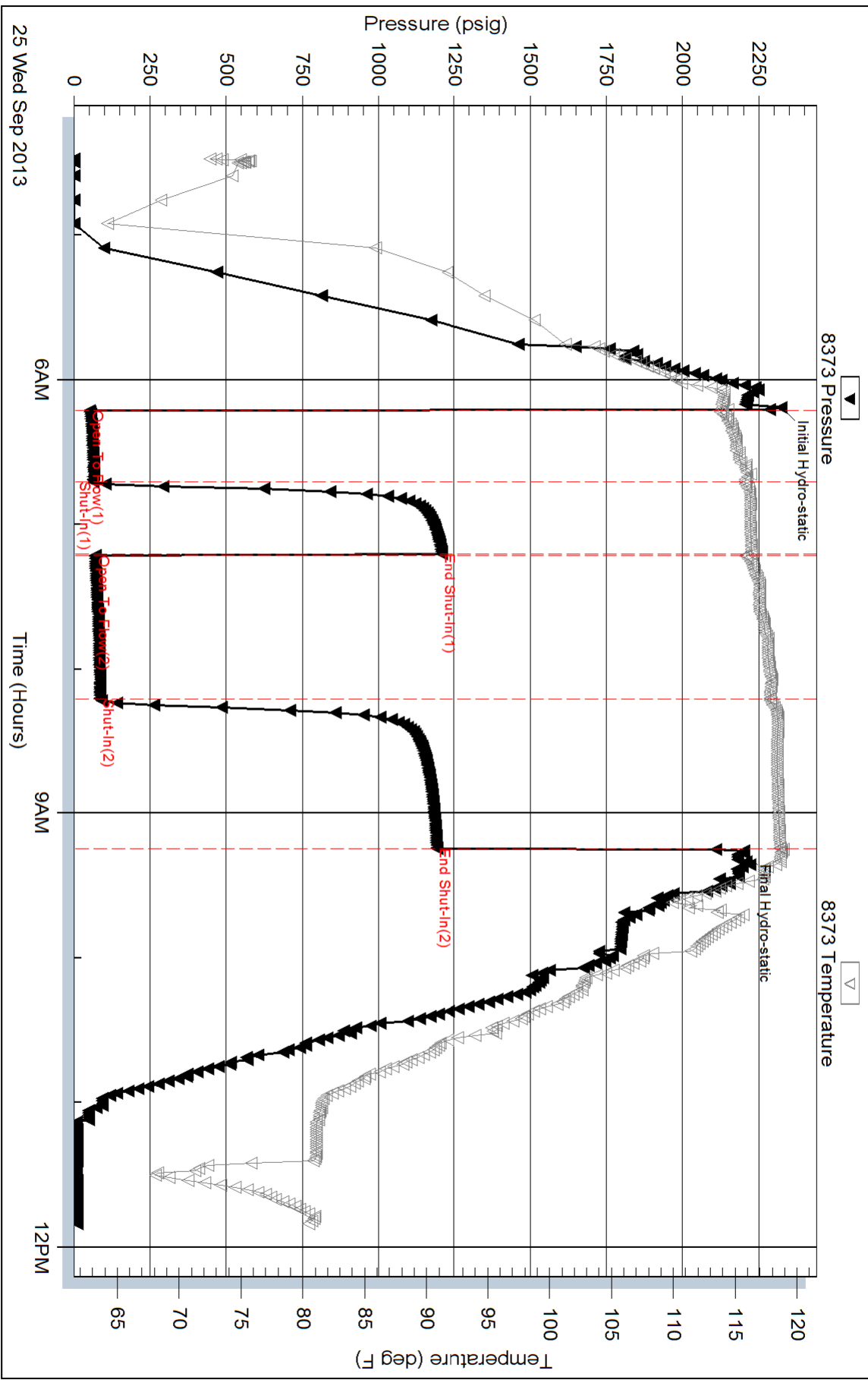
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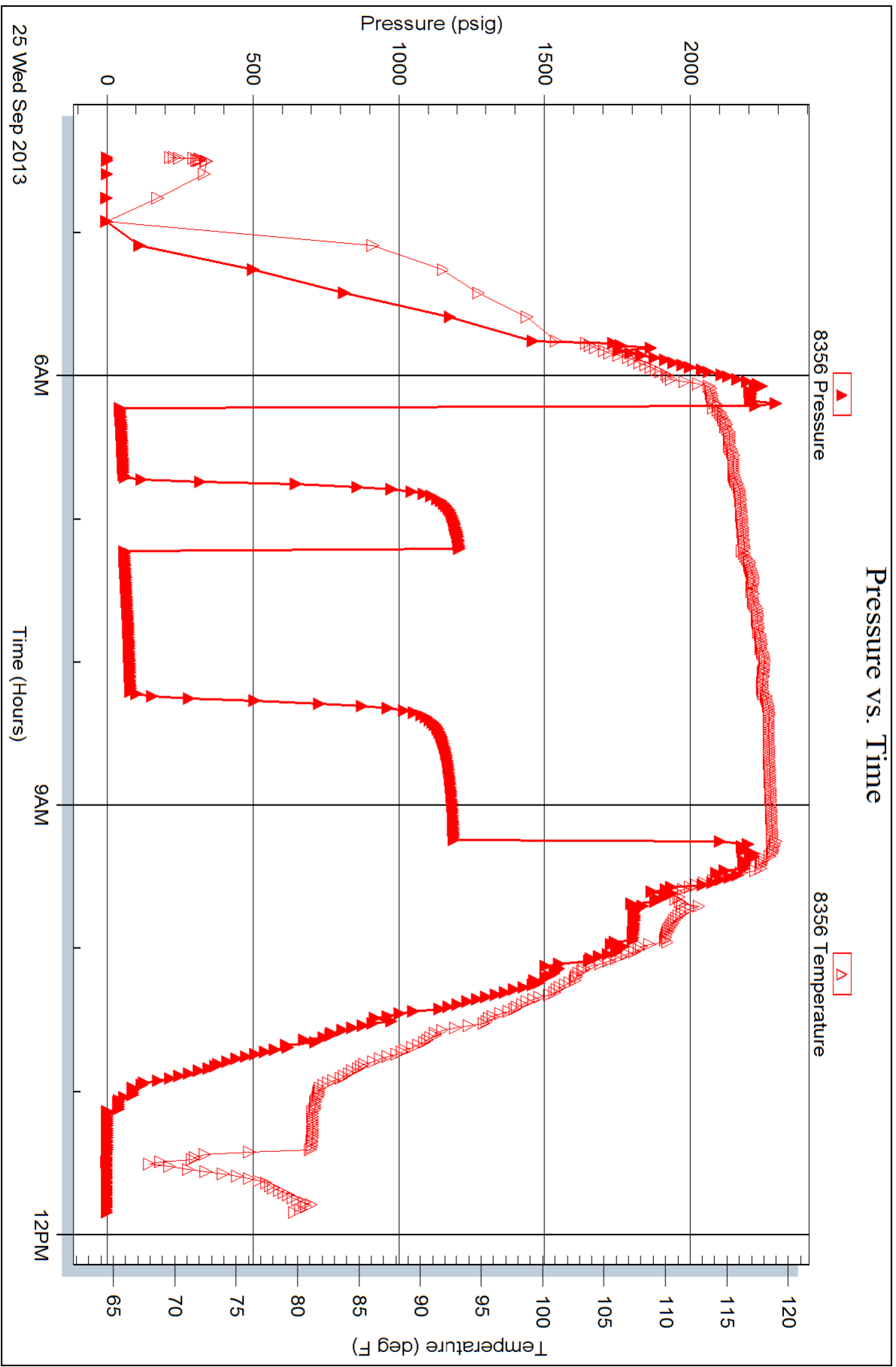
Laboratory Name:

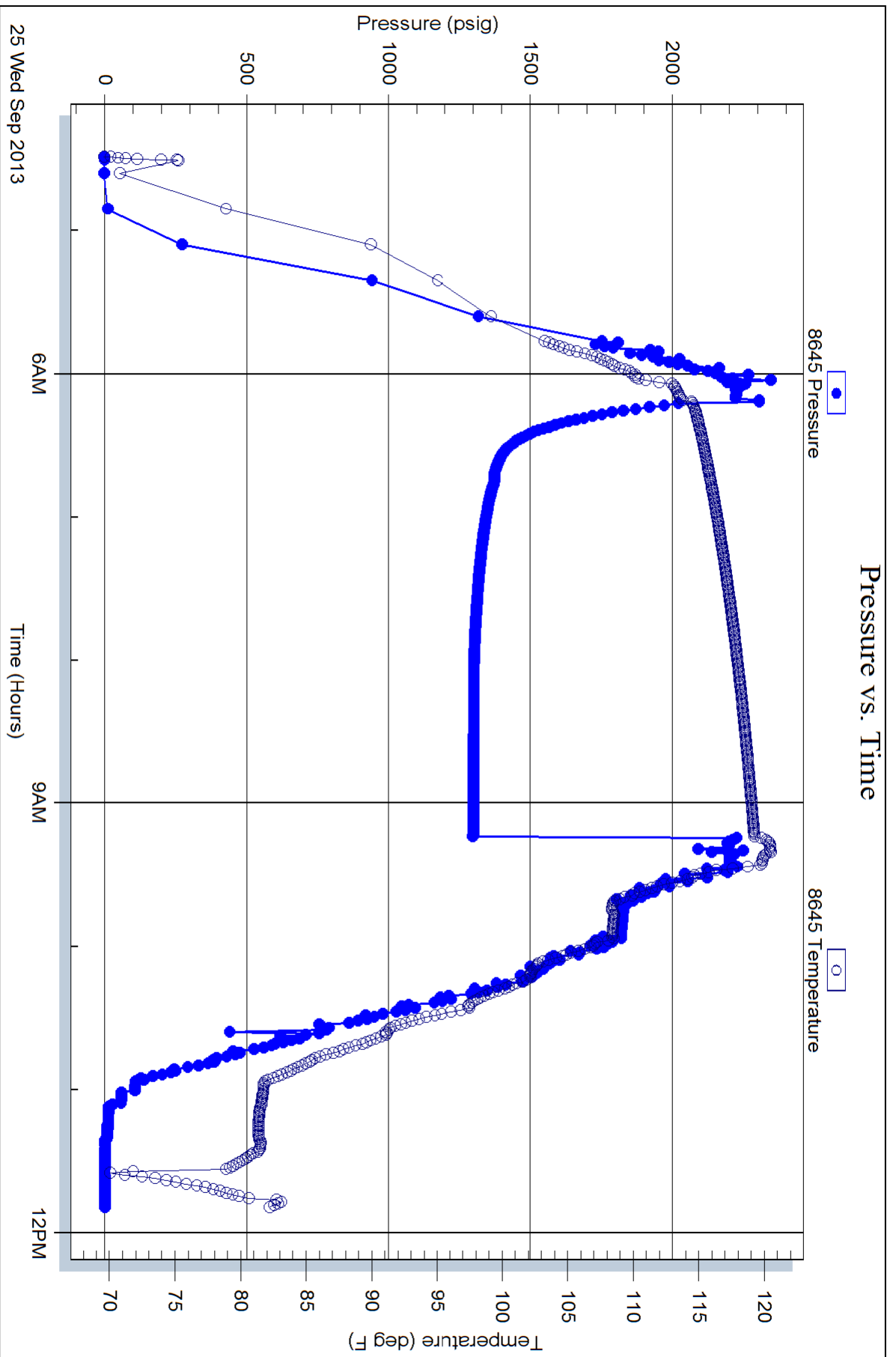
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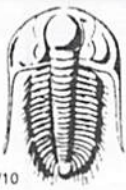
Recovery Comments:

Pressure vs. Time









TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54939

Well Name & No. Potter K #1 Test No. 1 Date 9-24-13
 Company John O. Farmer Inc Elevation 2492 KB 2484 GL
 Address 370 W Wichita Ave Russell, KS 67665
 Co. Rep / Geo. Austin K1945 Rig Discovery #3
 Location: Sec. 25 Twp. 17S Rge. 25W Co. Ness State KS

Interval Tested 4296 4346 Zone Tested Fr. Scott #
 Anchor Length 50 Drill Pipe Run 4275 Mud Wt. 9.3
 Top Packer Depth 4291 Drill Collars Run 30 Vis 56
 Bottom Packer Depth 4296 Wt. Pipe Run — WL 8.8
 Total Depth 4346 Chlorides 2000 ppm System LCM 1.5

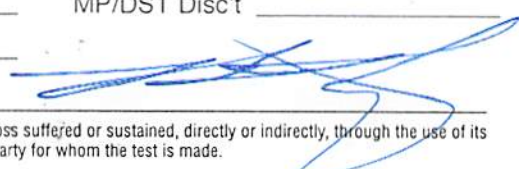
Blow Description IF: surface blow died in 9 min.
IS: NO return.
FK: No blow.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud 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 114 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2230 Test 1250 T-On Location 06:55
 (B) First Initial Flow 26 Jars T-Started 1:31
 (C) First Final Flow 28 Safety Joint T-Open 3:45
 (D) Initial Shut-In 33 Circ Sub NIC T-Pulled 5:45
 (E) Second Initial Flow 29 Hourly Standby T-Out 7:45
 (F) Second Final Flow 28 Mileage 130 - 201.50 Comments _____
 (G) Final Shut-In 29 Sampler _____
 (H) Final Hydrostatic 2162 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Ruined Packer 320
 Initial Shut-In 30 Shale Packer _____
 Extra Copies _____
 Final Flow 30 Extra Packer _____
 Sub Total 0
 Final Shut-In 30 Extra Recorder _____
 Total 1771.50
 Day Standby _____
 MP/DST Disc't _____
 Accessibility _____
 Sub Total 1451.50

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54940

Well Name & No. Potter K #1 Test No. 2 Date 9-25-13
 Company John O Farmer INC Elevation 2492 KB 2484 GL
 Address _____
 Co. Rep / Geo. Austin Klaus Rig Discovery #3
 Location: Sec. 25 Twp. 17S Rge. 25W Co. Wess State KS

Interval Tested 4366 4434 Zone Tested Miss
 Anchor Length _____ Drill Pipe Run 4330 Mud Wt. 9.3
 Top Packer Depth _____ Drill Collars Run 30 Vis 50
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL 9.6
 Total Depth 4560 Chlorides 3000 ppm System LCM 1.5
 Blow Description IF: 1/4 blow built to 5,
IS: No return,
FF: surface blow built to 8,
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil</u>	<u>100</u>			
<u>40</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
<u>62</u>	<u>90CM</u>	<u>10</u>	<u>30</u>		<u>60</u>
	<u>62 GSP</u>				

Rec Total 124 BHT 118 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2324 Test 1250 T-On Location 4:00
 (B) First Initial Flow 52 Jars _____ T-Started 4:28
 (C) First Final Flow 63 Safety Joint _____ T-Open 6:12
 (D) Initial Shut-In 1207 Circ Sub NIL T-Pulled 9:12
 (E) Second Initial Flow 71 Hourly Standby _____ T-Out 11:49
 (F) Second Final Flow 86 Mileage 130 201.50 Comments _____
 (G) Final Shut-In 1191 Sampler _____
 (H) Final Hydrostatic 2201 Straddle 600 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 2051.50
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 2051.50

Approved By [Signature] Our Representative [Signature]
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