

1089780

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

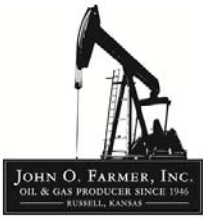
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Shaw 1
Doc ID	1089780

All Electric Logs Run

Micro Resistivity Log
Dual Induction Log
Compensated Density Neutron Log
Cement Bond Log



AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Shaw #1
Location: Phillips County
License Number: API #15-147-20,680-0000
Spud Date: 5/29/12
Surface Coordinates: 1250' FSL & 2140' FEL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 1,902' K.B. Elevation (ft): 1,910'
Logged Interval (ft): 2,850' To: RTD Total Depth (ft): RTD: 3,391' LTD: 3378'
Formation: Topeka - LKC
Type of Drilling Fluid: Chemical (Andy's Mud Co.)

Region: Kansas
Drilling Completed: 6/4/2012

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665-0352

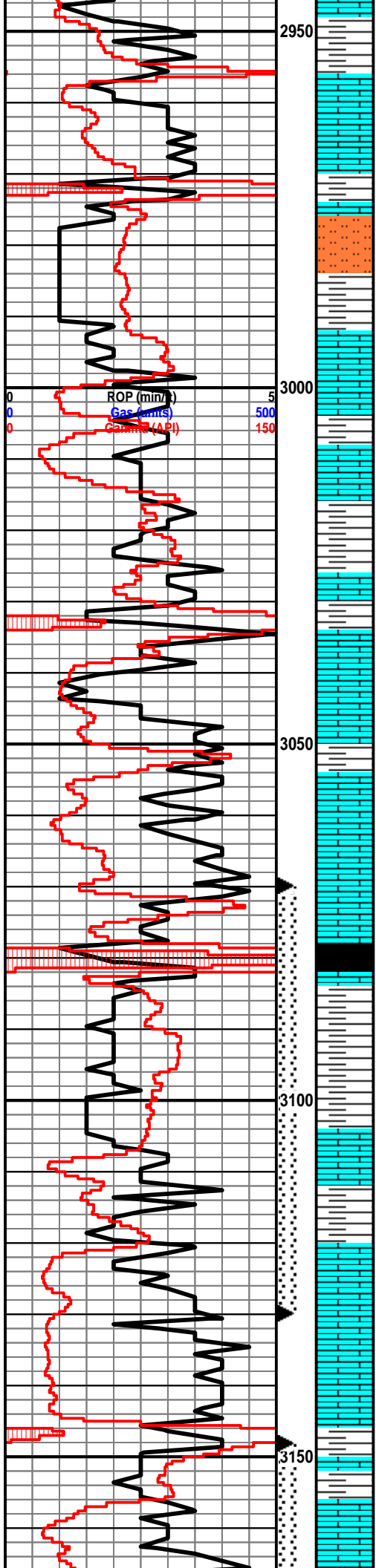
COMMENTS

The Shaw #1 well was drilled by Discovery Drilling Rig #1 (Tool pusher: Cliff Mayfield).

The location for the Shaw #1 was found via 3-D seismic survey. Based on the results of the five drill stem tests that were conducted, and the open hole logs and samples that were evaluated, the decision was made to set 5 1/2" production casing on 6/4/2012 to further evaluate the Shaw #1.

Respectfully submitted,

Austin Klaus
Petroleum Geologist
John O. Farmer, Inc.



Sh: Drk Gry

Ls: Tan-Lt Gry, Fn-Sub xln, Fossil, Mostly DNS

Ls: ala

Sh: Gry

Sh,Slst: Gry, Vry Fn Grn

Ls: Tan-Gry, Fn-Sub xln, Mostly DNS

Ls: Tan-Lt Gry, Fn xln, Fossil, SI Chalky, Mostly DNS, NSFO

Sh: Gry

Sh: Drk Gry-Blk

Ls: Tan-Gry, Fn-Sub xln, Mostly DNS

Sh: Drk Gry-Grn

Ls: Off Wh-Tan, Fn-Sub xln, SI Fossil, Mostly DNS

Ls: ala, SI Chalky

Sh: Blk, Carb

Sh: Drk Gry-Grn, Vry Soft

Sh: ala

Ls: Off Wh-Tan, Fn-Sub xln, w/ Scat pinpoint vuggy porosity, Fossil, NSFO

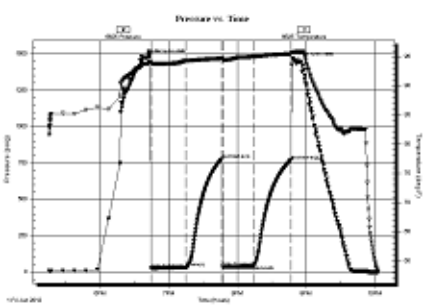
Ls: Off Wh-Tan, Fn xln, w/ Poor int xln porosity, Lt Oil St in porosity, VSSFO, SI Odor

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS

Sh: Drk Gry-Brn-Grn

Ls: Off Wh-Tan, Fn xln, w/ Scat pinpoint vuggy porosity, Lt Oil St, SSFO, Fair Odor, Fossil

**Heebner
3078 (-1168)**



**Toronto
3105 (-1195)**

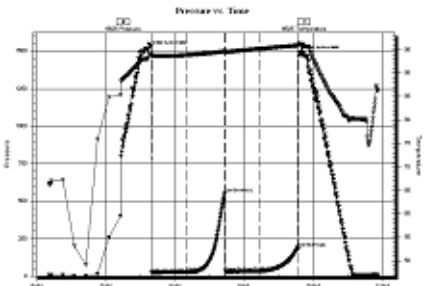
**DST #1 3,070'-3,130' Toronto-LKC A
30"-30"-30"-30"**
 IF: weak blow built to .25"
 FF: no blow
 Rec: 30' SOCM (2% O, 98% M)
 FP: 25-32, 36-42#
 SIP: 776-770#
 HP: 1,475-1,453#
 BHT: 96

**Lansing
3120 (-1210)**

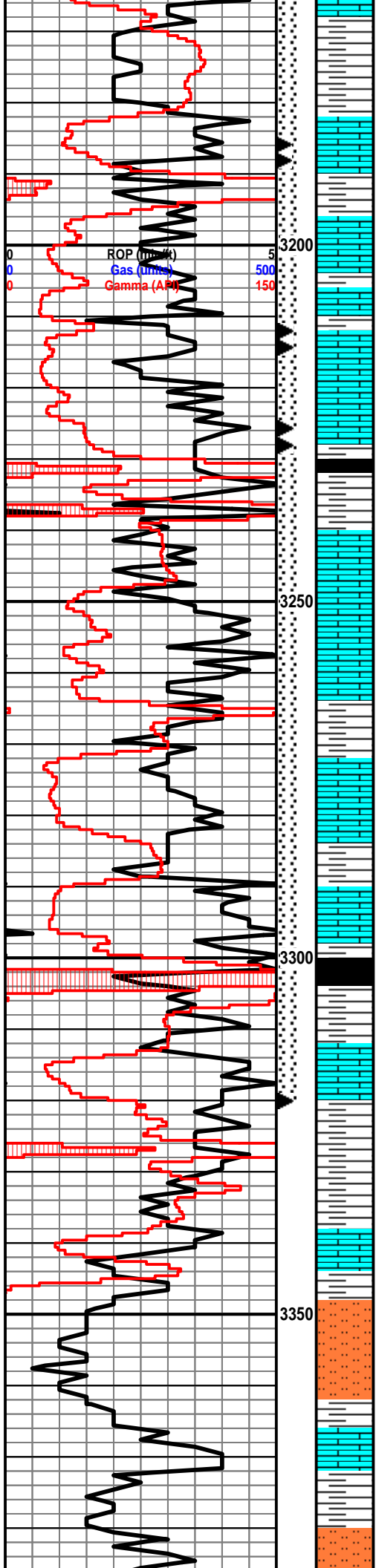
'A'

'B'

'C'



**DST #2 3,148'-3,188' LKC C-D
30"-30"-30"-30"**
 IF: weak blow built to .25"
 FF: no blow



Sh: Drk Gry-Grn-Brn, Vry Soft

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS

Sh: Gry-Brn-Grn

Ls: Off Wh-Tan, Fn xln, w/ Poor pinpoint vuggy porosity, Lt Oil St in porosity, SSFO, Fair Odor

Ls: Off Wh-Tan, Fn xln, w/ Scat pinpoint vuggy & poor int xln porosity, Lt Oil St, SSFO, SI-Fair Odor

Ls: Off Wh-Tan, Fn xln, w/ Poor-Fair pinpoint vuggy & int xln porosity, Fair Oil St, SFO, Good Odor, SI Chert

Sh: Drk Gry-Brn-Grn

Sh: Gry-Blk

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS, Heavy Chert, Chalky

Ls: Tan-Lt Gry, Fn-Sub xln, Mostly DNS

Ls: Off Wh-Lt Gry, Fn xln, w/ Fair int xln porosity, Fair Oil St in porosity, SFO, Fair-Good Odor

Sh: Gry-Brn

Ls: Off Wh-Lt Gry, Fn-Sub xln, Mostly DNS, SI Chalky

Sh: Drk Gry-Blk, Carb

Ls: Off Wh-Tan, Fn-Sub xln, Mostly DNS, SI Fossil

Sh: Gry-Grn-Brn

Ls: Off Wh-Tan, Fn-Sub xln, Moslty DNS

Sh: Gry-Brn

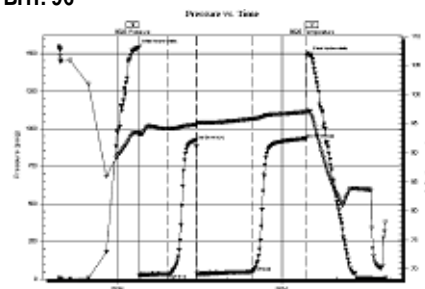
Sh, Slstst: Gry-Brn-Grn, Vry Fn Grn

Sh, Slstst: ala

Ls: Off Wh-Tan, Fn-Sub xln, DNS

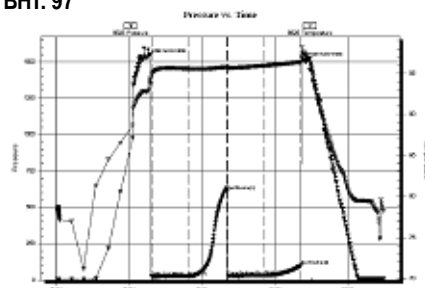
Sh, Slstst: Gry-Brn-Red, Grn, Vry Fn Grn

FP: 10-15#
 Rec: 10' OCM (10% O, 90% M)
 FP: 23-29, 31-35#
 SIP: 553-191#
 HP: 1,511-1,483#
 BHT: 96



DST #3 1,186'-3,212' LKC E-F
 30"-30"-60"-60"

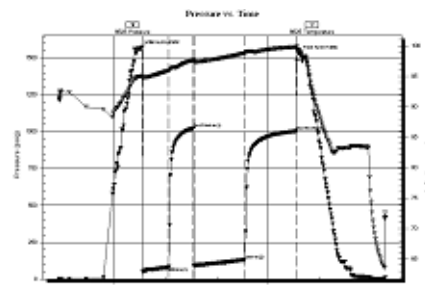
IF: surface blow
 FF: weak blow built to 1.25"
 Rec: 60' GIP, 40' CO, 30 HMC GO (10% G, 40% M, 50% O)
 FP: 23-33, 31-48#
 SIP: 923-934#
 HP: 1,539-1,491#
 BHT: 97



DST #4 3,214'-3,228' LKC G
 30"-30"-30"-30"

IF: weak blow built to .25"
 FF: surface blow
 Rec: 2' CO, 15' O&GCM (5% G, 15% O, 80% M)
 FP: 26-28, 30-34#
 SIP: 615-100#
 HP: 1,530-1,508#
 BHT: 97

Stark
 3302 (-1392)

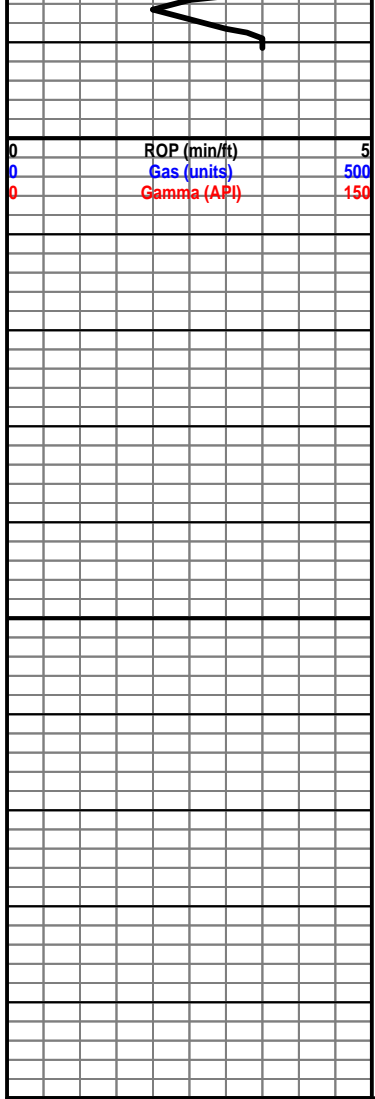


DST #5 3,226'-3,320' LKC H-K
 30"-30"-60"-60"

IF: weak blow built to 4"
 FF: weak blow built to 2"
 Rec: 30' CO, 75' OCM (10% O, 90% M), 62' OCWM (10% O, 40% W, 50% M), 62' SOCMW (1% O, 20% M, 79% W)
 FP: 49-83, 90-131#
 SIP: 1,023-1,004#
 HP: 1,560-1,527#
 BHT: 99

'L'
B/KC
 3341 (-1431)

RTD
3391 (-1481)



3400

3450

3500

0 ROP (min/ft) 5
0 Gas (units) 500
0 Gamma (API) 150



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: John O Farmer IV

Shaw #1

18-4s-18w Phillips,KS

Start Date: 2012.06.01 @ 17:15:31

End Date: 2012.06.01 @ 22:02:55

Job Ticket #: 47162 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.13 @ 11:11:45



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

John O Farmer Inc

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47162

DST#: 1

ATTN: John O Farmer IV

Test Start: 2012.06.01 @ 17:15:31

GENERAL INFORMATION:

Formation: **Toronto-LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:44:26

Time Test Ended: 22:02:55

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

Interval: 3070.00 ft (KB) To 3130.00 ft (KB) (TVD)

Reference Elevations: 1910.00 ft (KB)

Total Depth: 3130.00 ft (KB) (TVD)

1902.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 41.89 psig @ 3075.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.01 End Date: 2012.06.01

Last Calib.: 2012.06.01

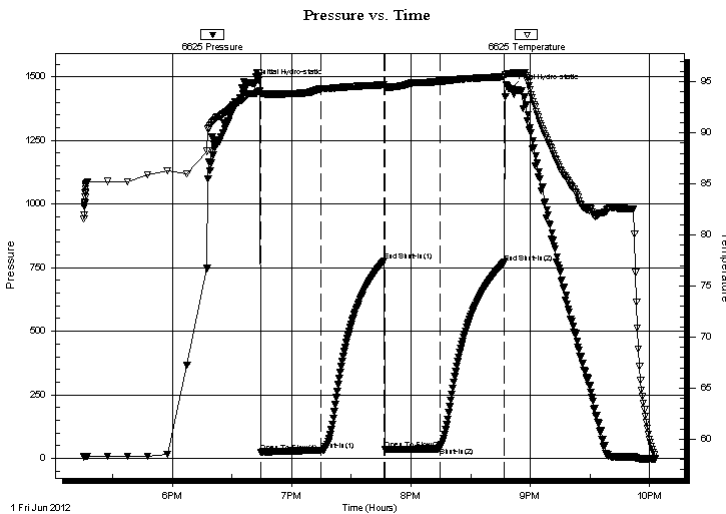
Start Time: 17:15:31 End Time: 22:02:55

Time On Btm: 2012.06.01 @ 18:40:56

Time Off Btm: 2012.06.01 @ 20:50:26

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	1474.52	93.87	Initial Hydro-static
4	25.11	93.84	Open To Flow (1)
34	32.04	94.30	Shut-In(1)
66	776.21	94.70	End Shut-In(1)
66	35.84	94.53	Open To Flow (2)
94	41.89	95.05	Shut-In(2)
126	770.40	95.49	End Shut-In(2)
130	1452.57	95.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 2%O98%M	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

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47162

DST#: 1

ATTN: John O Farmer IV

Test Start: 2012.06.01 @ 17:15:31

Tool Information

Drill Pipe:	Length: 3044.00 ft	Diameter: 3.80 inches	Volume: 42.70 bbl	Tool Weight: 2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 42.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3070.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	81.00 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			3050.00	
Shut In Tool	5.00			3055.00	
Hydraulic tool	5.00			3060.00	
Packer	5.00			3065.00	21.00 Bottom Of Top Packer
Packer	5.00			3070.00	
Stubb	1.00			3071.00	
Perforations	4.00			3075.00	
Recorder	0.00	6625	Inside	3075.00	
Recorder	0.00	8700	Outside	3075.00	
Blank Spacing	32.00			3107.00	
Perforations	20.00			3127.00	
Bullnose	3.00			3130.00	60.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47162

DST#: 1

ATTN: John O Farmer IV

Test Start: 2012.06.01 @ 17:15:31

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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.52 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 2% O 98% M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

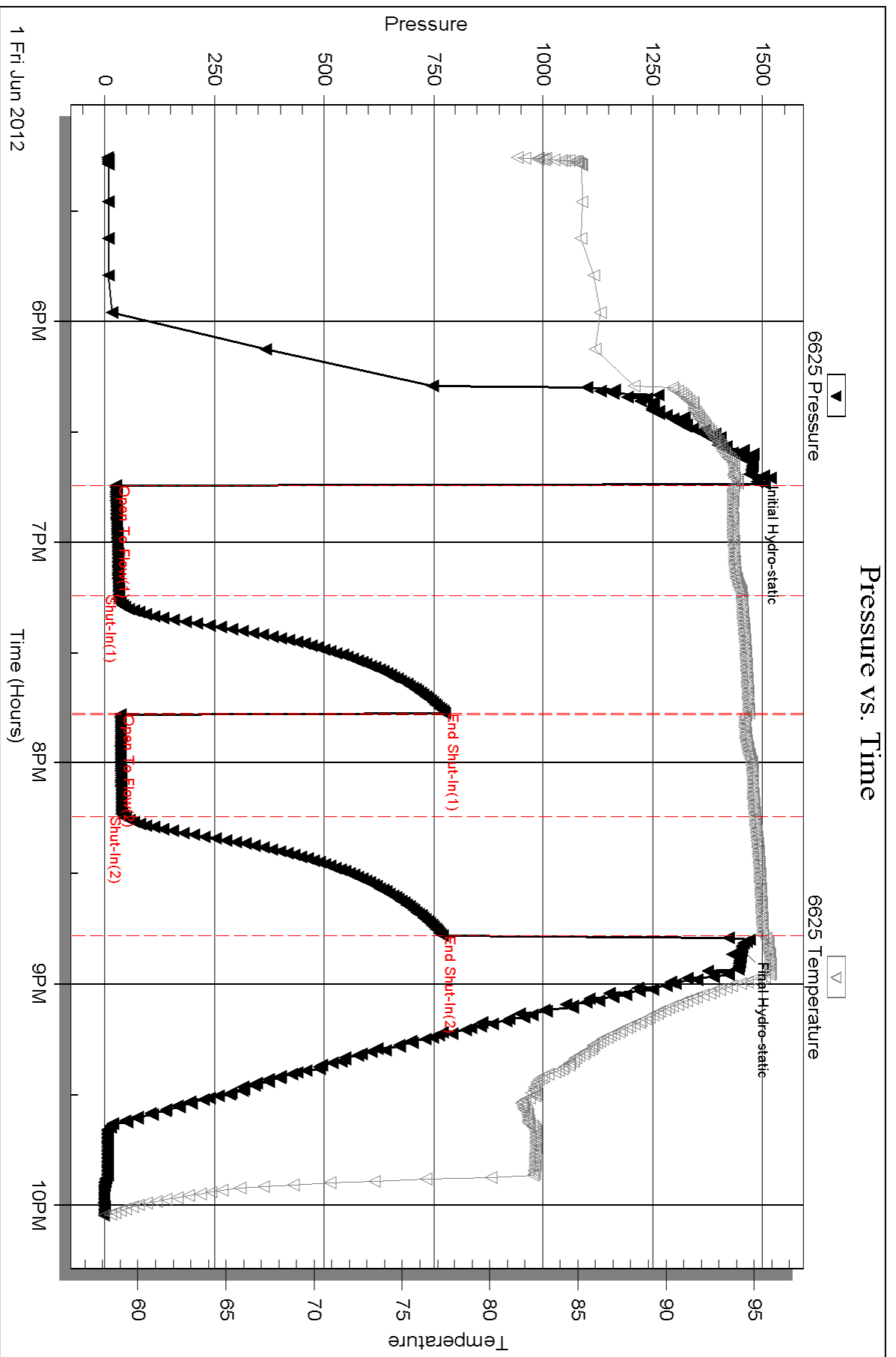
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

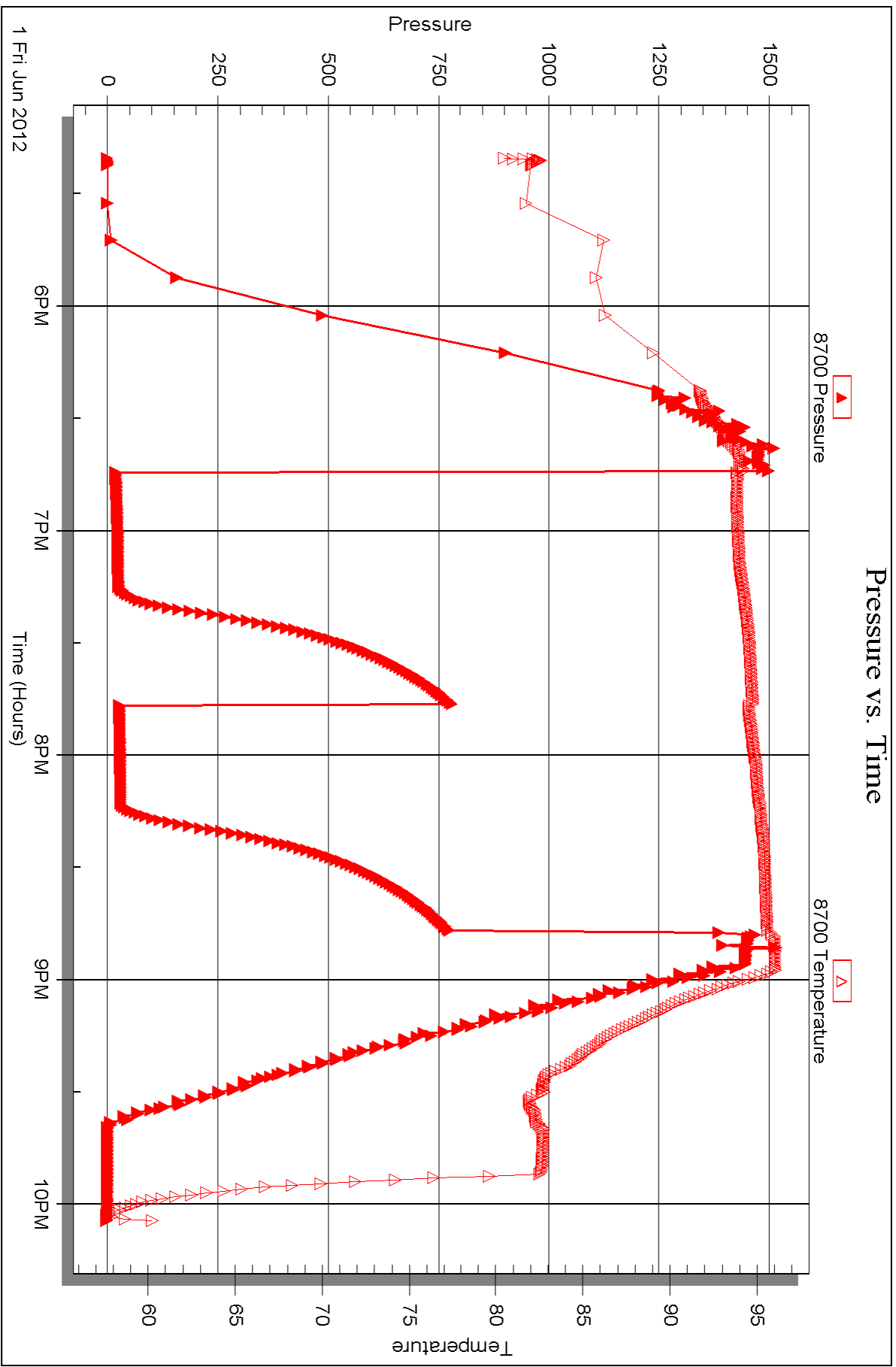


Serial #: 8700

Outside John O Farmer Inc

Shaw #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

Shaw #1

18-4s-18w Phillips,KS

Start Date: 2012.06.02 @ 06:10:45

End Date: 2012.06.02 @ 10:56:39

Job Ticket #: 47163 DST #: 2

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

Printed: 2012.06.13 @ 11:10:58

John O Farmer Inc
18-4s-18w Phillips,KS
Shaw #1
DST # 2
LKC-C-D
2012.06.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-4s-18w Phillips,KS

Shaw #1

Job Ticket: 47163

DST#: 2

Test Start: 2012.06.02 @ 06:10:45

GENERAL INFORMATION:

Formation: **LKC C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:39:40
 Time Test Ended: 10:56:39
 Interval: **3148.00 ft (KB) To 3188.00 ft (KB) (TVD)**
 Total Depth: 3188.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1910.00 ft (KB)
 1902.00 ft (CF)
 KB to GR/CF: 8.00 ft

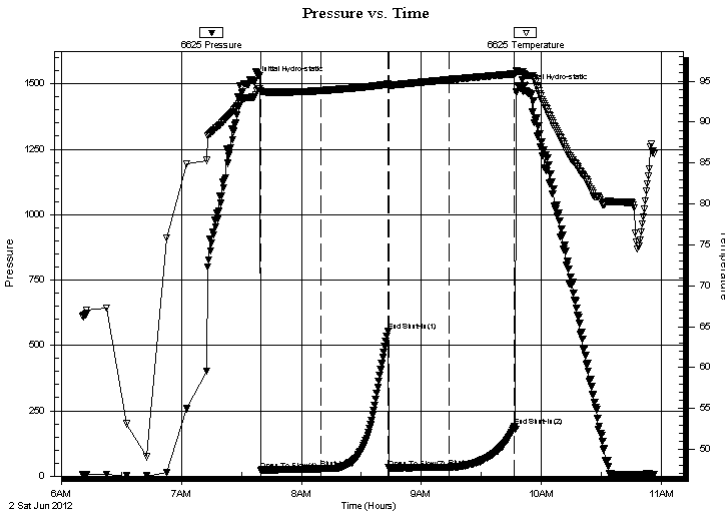
Serial #: 6625

Inside

Press @ Run Depth: 34.91 psig @ 3156.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.02 End Date: 2012.06.02 Last Calib.: 2012.06.02
 Start Time: 06:10:45 End Time: 10:56:39 Time On Btm: 2012.06.02 @ 07:36:40
 Time Off Btm: 2012.06.02 @ 09:49:40

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1510.81	93.09	Initial Hydro-static
3	23.41	93.81	Open To Flow (1)
33	28.53	93.85	Shut-In(1)
67	553.26	94.63	End Shut-In(1)
67	31.39	94.53	Open To Flow (2)
97	34.91	95.19	Shut-In(2)
130	190.81	95.91	End Shut-In(2)
133	1482.92	96.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 10%O90%M	0.05

* 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

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47163

DST#: 2

ATTN: John O Farmer IV

Test Start: 2012.06.02 @ 06:10:45

Tool Information

Drill Pipe:	Length: 3106.00 ft	Diameter: 3.80 inches	Volume: 43.57 bbl	Tool Weight:	2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 43.72 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3148.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	40.00 ft				
Tool Length:	61.00 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			3128.00	
Shut In Tool	5.00			3133.00	
Hydraulic tool	5.00			3138.00	
Packer	5.00			3143.00	21.00 Bottom Of Top Packer
Packer	5.00			3148.00	
Stubb	1.00			3149.00	
Perforations	7.00			3156.00	
Recorder	0.00	6625	Inside	3156.00	
Recorder	0.00	8700	Outside	3156.00	
Perforations	29.00			3185.00	
Bullnose	3.00			3188.00	40.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47163

DST#: 2

ATTN: John O Farmer IV

Test Start: 2012.06.02 @ 06:10:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 50.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.52 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 10%O90%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

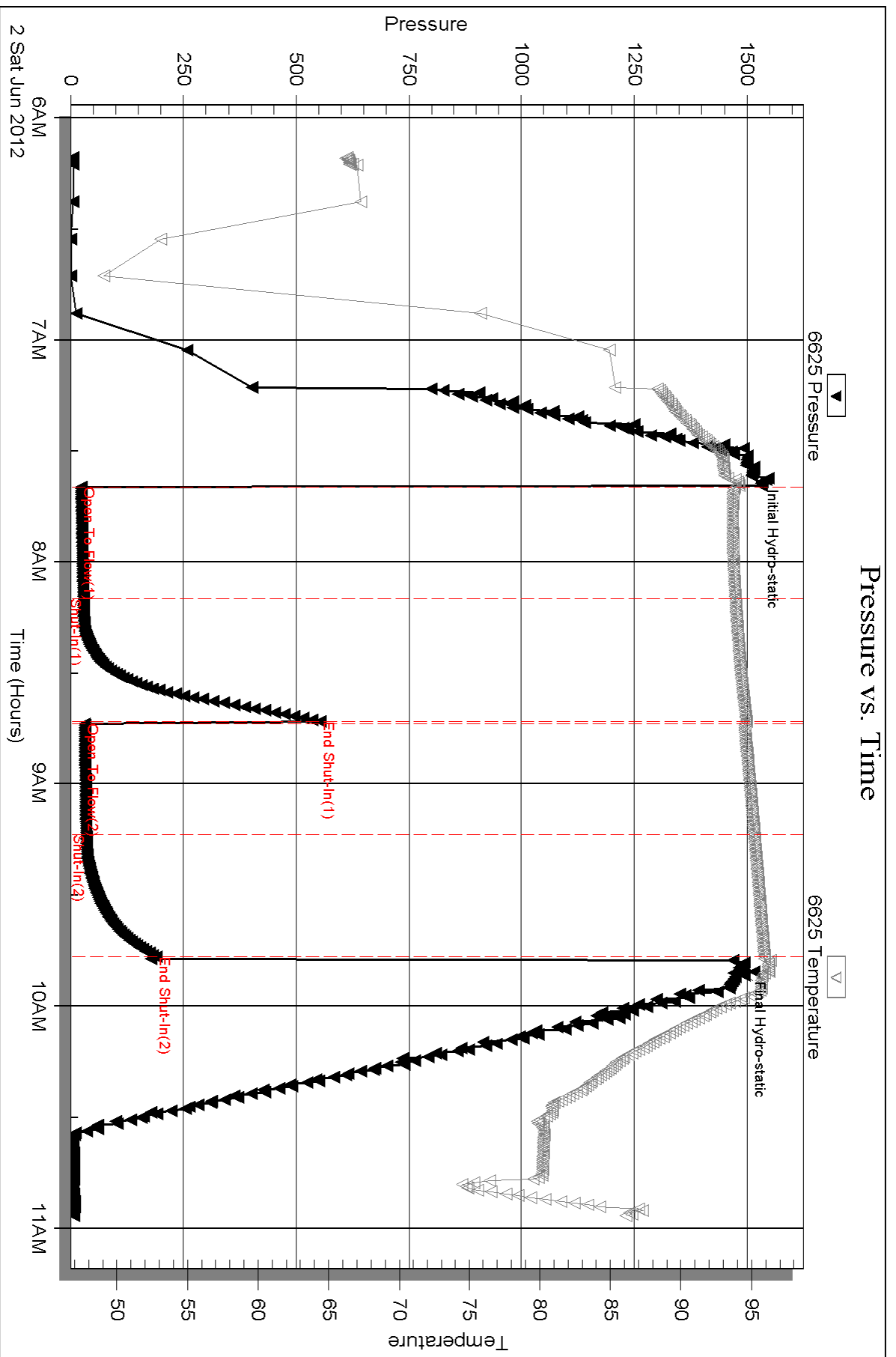
Num Gas Bombs: 0

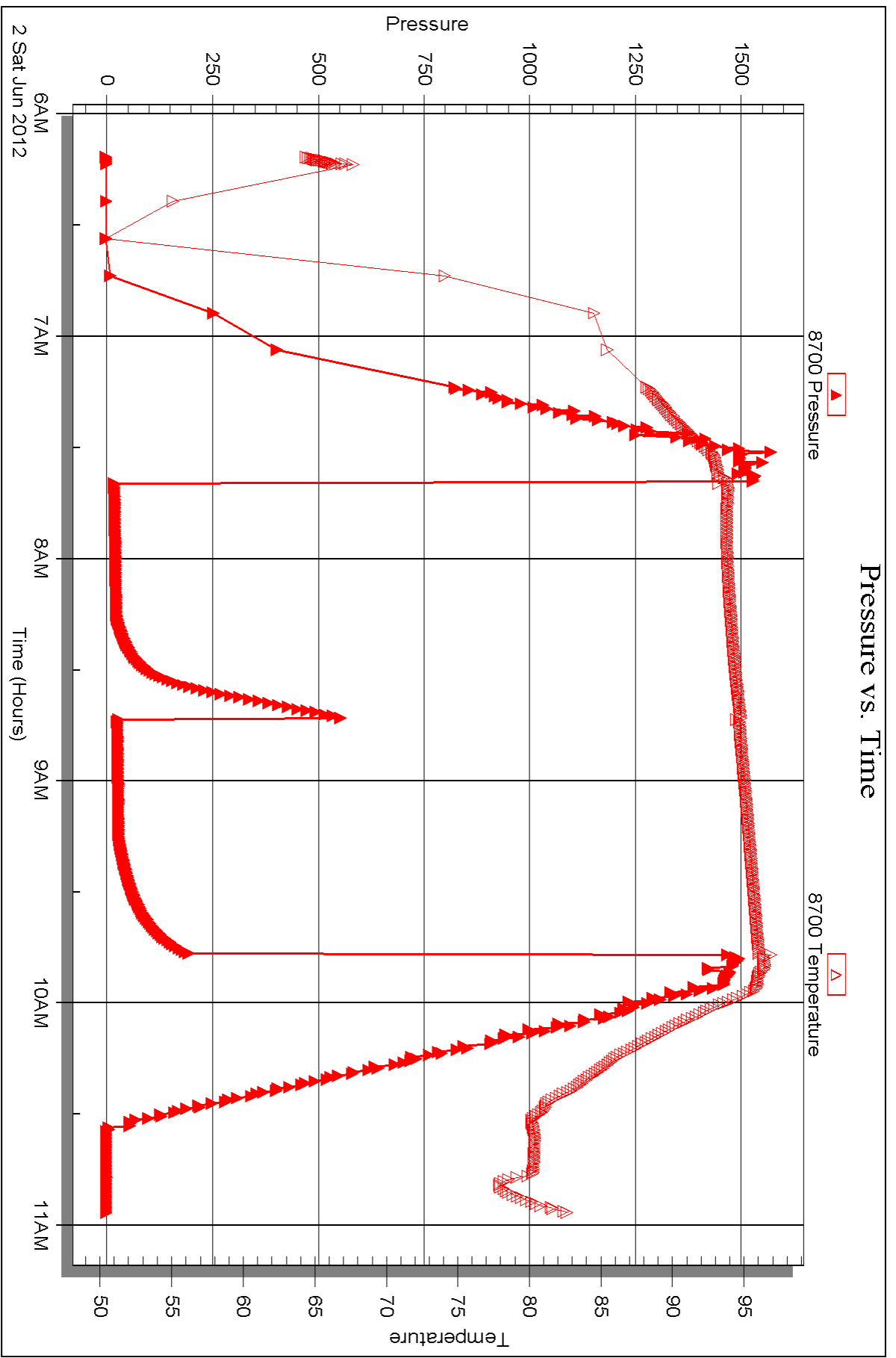
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: John O Farmer IV

Shaw #1

18-4s-18w Phillips,KS

Start Date: 2012.06.02 @ 16:55:53

End Date: 2012.06.02 @ 22:53:47

Job Ticket #: 47164 DST #: 3

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

Printed: 2012.06.13 @ 11:10:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-4s-18w Phillips,KS

Shaw #1

Job Ticket: 47164

DST#: 3

Test Start: 2012.06.02 @ 16:55:53

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:23:48

Time Test Ended: 22:53:47

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 3186.00 ft (KB) To 3212.00 ft (KB) (TVD)

Reference Elevations: 1910.00 ft (KB)

Total Depth: 3212.00 ft (KB) (TVD)

1902.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press @ Run Depth: 47.86 psig @ 3190.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.02

End Date:

2012.06.02

Last Calib.:

2012.06.02

Start Time:

16:55:53

End Time:

22:53:47

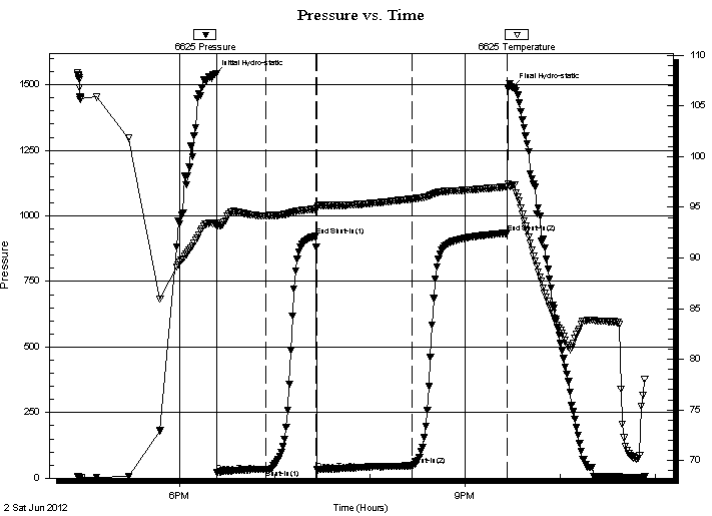
Time On Btm:

2012.06.02 @ 18:22:18

Time Off Btm:

2012.06.02 @ 21:29:47

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1538.51	93.40	Initial Hydro-static
2	22.60	93.17	Open To Flow (1)
32	33.08	94.15	Shut-In(1)
64	923.43	94.81	End Shut-In(1)
65	31.41	94.89	Open To Flow (2)
125	47.86	95.82	Shut-In(2)
185	934.29	97.01	End Shut-In(2)
188	1490.67	97.17	Final Hydro-static

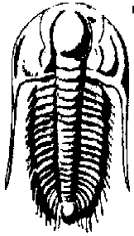
Recovery

Length (ft)	Description	Volume (bbl)
30.00	O&GCM 10%G40%M50%O	0.15
40.00	CO	0.56
0.00	60'GIP	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

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47164

DST#: 3

ATTN: John O Farmer IV

Test Start: 2012.06.02 @ 16:55:53

Tool Information

Drill Pipe:	Length: 3139.00 ft	Diameter: 3.80 inches	Volume: 44.03 bbl	Tool Weight:	2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 44.18 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3186.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	47.00 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			3166.00	
Shut In Tool	5.00			3171.00	
Hydraulic tool	5.00			3176.00	
Packer	5.00			3181.00	21.00 Bottom Of Top Packer
Packer	5.00			3186.00	
Stubb	1.00			3187.00	
Perforations	3.00			3190.00	
Recorder	0.00	6625	Inside	3190.00	
Recorder	0.00	8700	Outside	3190.00	
Perforations	19.00			3209.00	
Bullnose	3.00			3212.00	26.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47164

DST#: 3

ATTN: John O Farmer IV

Test Start: 2012.06.02 @ 16:55:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	O&GCM 10%G40%M50%O	0.148
40.00	CO	0.561
0.00	60'GIP	0.000

Total Length: 70.00 ft Total Volume: 0.709 bbl

Num Fluid Samples: 0

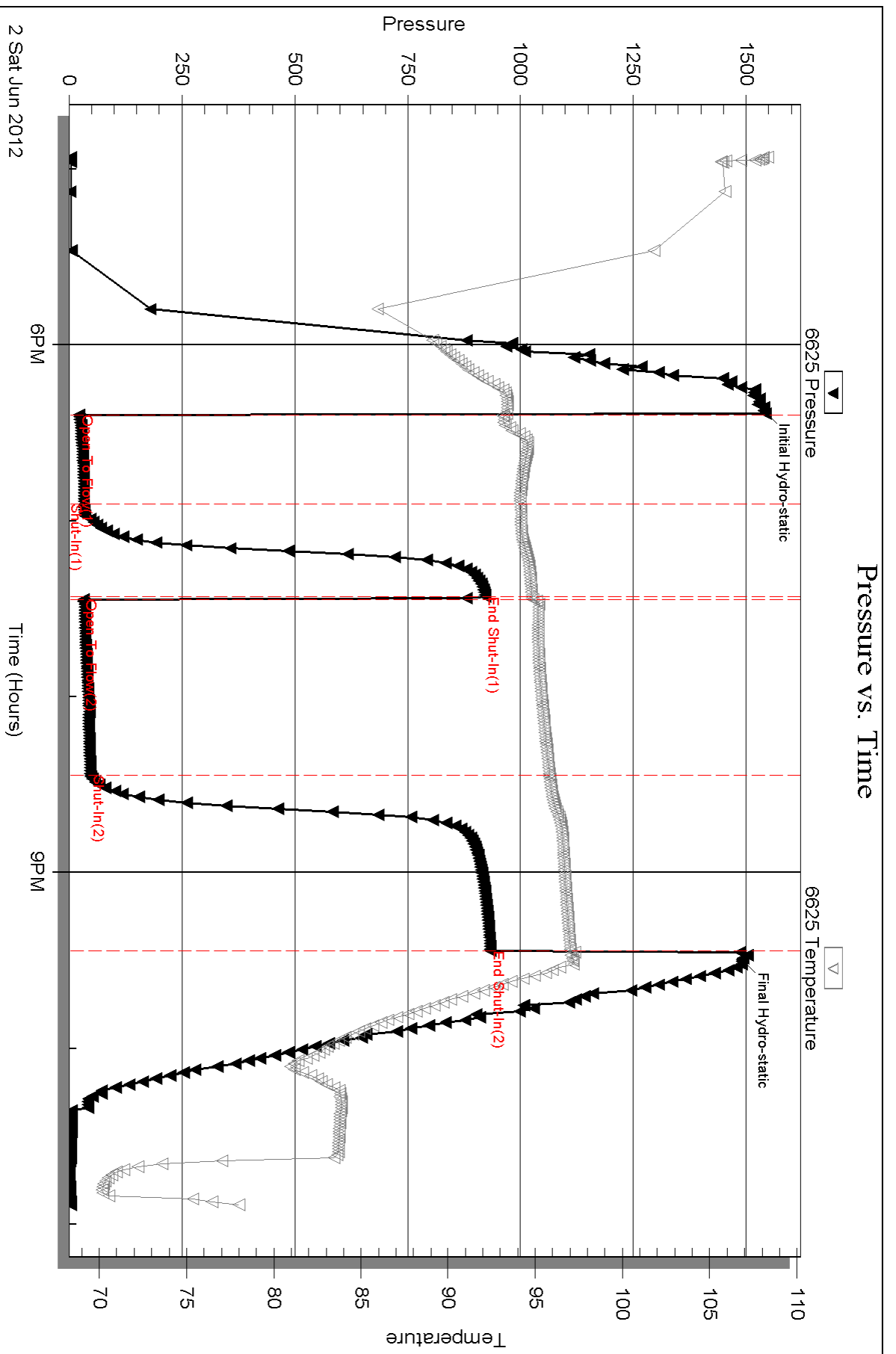
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

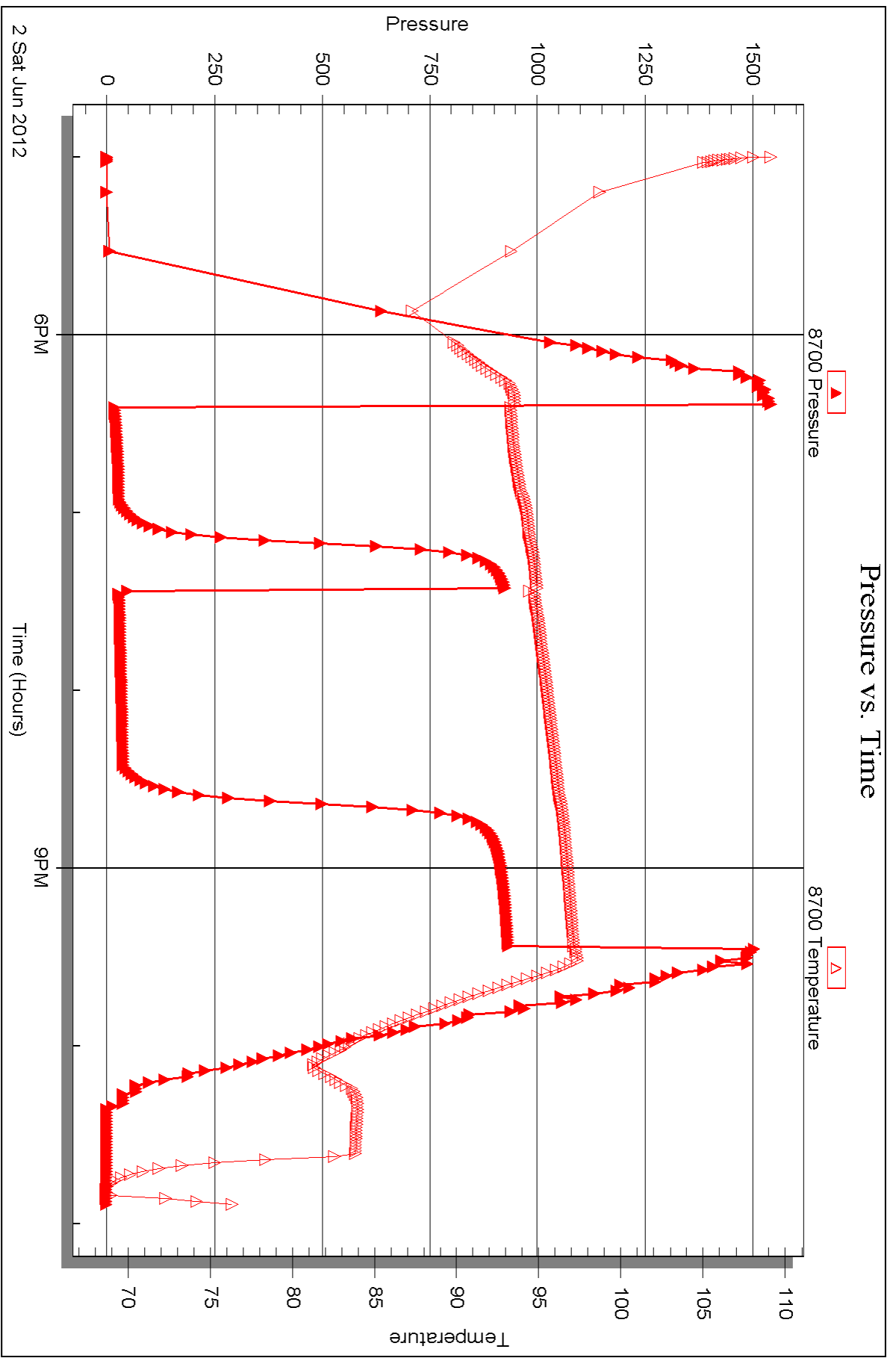


Serial #: 8700

Outside John O Farmer Inc

Shaw #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 47164

Printed: 2012.06.13 @ 11:10:11



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: John O Farmer IV

Shaw #1

18-4s-18w Phillips,KS

Start Date: 2012.06.03 @ 05:00:25

End Date: 2012.06.03 @ 09:28:49

Job Ticket #: 47165 DST #: 4

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

Printed: 2012.06.13 @ 11:09:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-4s-18w Phillips,KS

Shaw #1

Job Ticket: 47165 **DST#: 4**
 Test Start: 2012.06.03 @ 05:00:25

GENERAL INFORMATION:

Formation: **LKC "G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:17:50
 Time Test Ended: 09:28:49
Interval: 3212.00 ft (KB) To 3228.00 ft (KB) (TVD)
 Total Depth: 3228.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1910.00 ft (KB)
 1902.00 ft (CF)
 KB to GR/CF: 8.00 ft

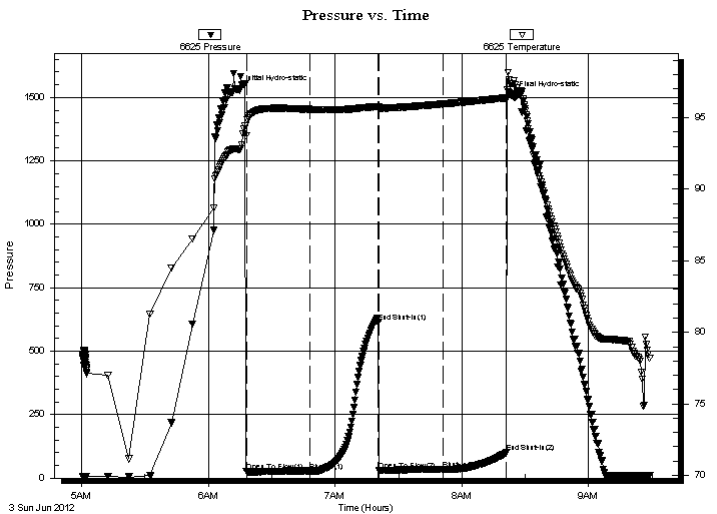
Serial #: 6625

Inside

Press @ Run Depth: 34.14 psig @ 3215.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.03 End Date: 2012.06.03 Last Calib.: 2012.06.03
 Start Time: 05:00:25 End Time: 09:28:49 Time On Btm: 2012.06.03 @ 06:14:20
 Time Off Btm: 2012.06.03 @ 08:23:50

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1530.15	92.80	Initial Hydro-static
4	25.86	93.76	Open To Flow (1)
34	28.44	95.58	Shut-In(1)
66	614.92	95.77	End Shut-In(1)
67	29.74	95.68	Open To Flow (2)
97	34.14	95.95	Shut-In(2)
127	100.36	96.38	End Shut-In(2)
130	1508.24	97.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	CO	0.01
15.00	O&GCM 5%G15%O80%M	0.07

* 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

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47165

DST#: 4

ATTN: John O Farmer IV

Test Start: 2012.06.03 @ 05:00:25

Tool Information

Drill Pipe:	Length: 3169.00 ft	Diameter: 3.80 inches	Volume: 44.45 bbl	Tool Weight:	2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 44.60 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3214.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	14.00 ft				
Tool Length:	35.00 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			3194.00	
Shut In Tool	5.00			3199.00	
Hydraulic tool	5.00			3204.00	
Packer	5.00			3209.00	21.00 Bottom Of Top Packer
Packer	5.00			3214.00	
Stubb	1.00			3215.00	
Recorder	0.00	6625	Inside	3215.00	
Recorder	0.00	8700	Outside	3215.00	
Perforations	10.00			3225.00	
Bullnose	3.00			3228.00	14.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47165

DST#: 4

ATTN: John O Farmer IV

Test Start: 2012.06.03 @ 05:00:25

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	CO	0.010
15.00	O&GCM 5%G15%O80%M	0.074

Total Length: 17.00 ft Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

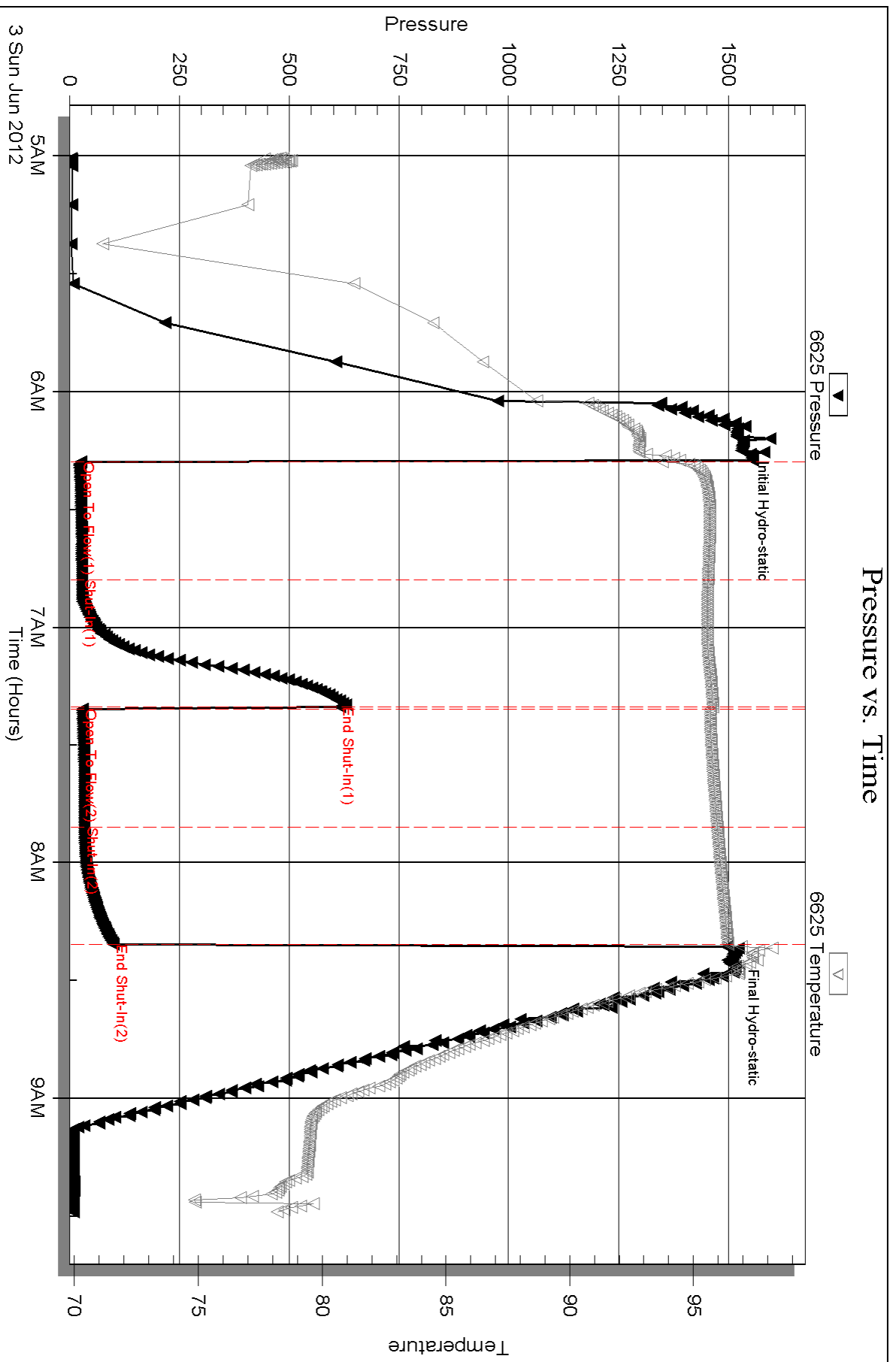
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

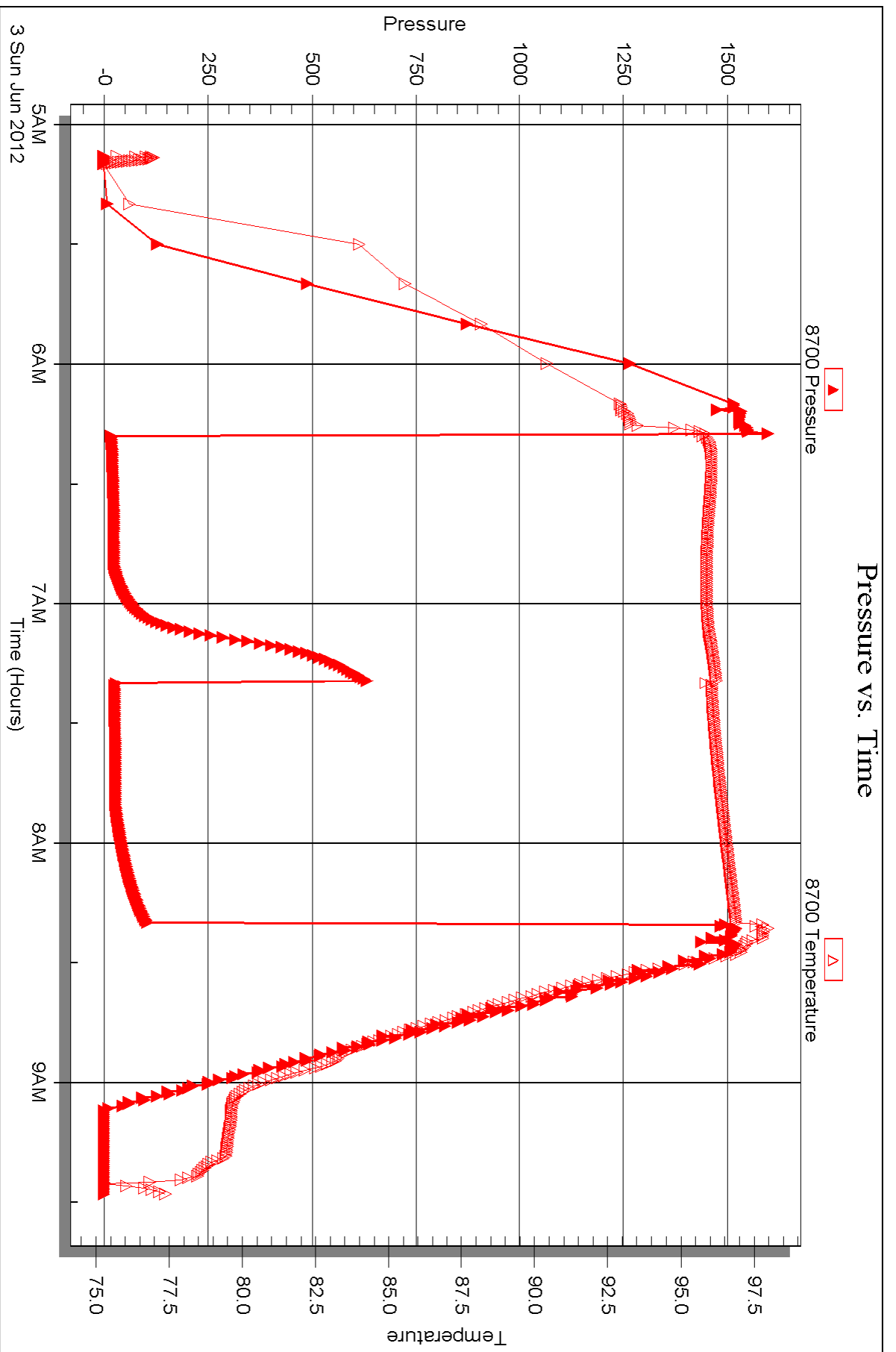


Serial #: 8700

Outside John O Farmer Inc

Shaw #1

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: John O Farmer IV

Shaw #1

18-4s-18w Phillips,KS

Start Date: 2012.06.03 @ 19:55:28

End Date: 2012.06.04 @ 02:17:40

Job Ticket #: 47166 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.13 @ 11:08:15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

18-4s-18w Phillips,KS
Shaw #1
 Job Ticket: 47166 **DST#: 5**
 Test Start: 2012.06.03 @ 19:55:28

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:33:23
 Time Test Ended: 02:17:40
 Interval: **3226.00 ft (KB) To 3320.00 ft (KB) (TVD)**
 Total Depth: 3320.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ray Schwager
 Unit No: 42
 Reference Elevations: 1910.00 ft (KB)
 1902.00 ft (CF)
 KB to GR/CF: 8.00 ft

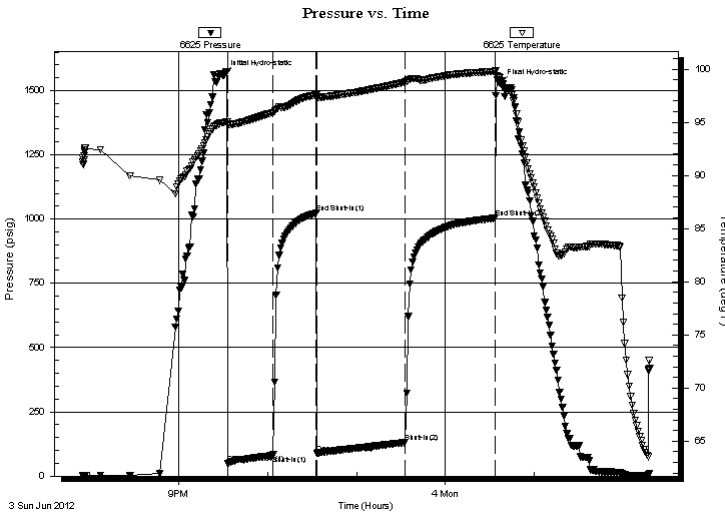
Serial #: 6625

Inside

Press @ Run Depth: 130.85 psig @ 3232.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.06.03 End Date: 2012.06.04 Last Calib.: 2012.06.04
 Start Time: 19:55:28 End Time: 02:17:41 Time On Btm: 2012.06.03 @ 21:30:23
 Time Off Btm: 2012.06.04 @ 00:36:52

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1560.19	94.97	Initial Hydro-static
3	48.64	94.81	Open To Flow (1)
34	82.81	95.92	Shut-In(1)
63	1023.24	97.57	End Shut-In(1)
63	90.17	97.38	Open To Flow (2)
123	130.85	98.78	Shut-In(2)
183	1003.98	99.78	End Shut-In(2)
187	1526.68	99.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	SOCMW 1%O20%M79%W	0.60
62.00	OCWM 10%O40%W50%M	0.87
75.00	OCM 10%O90%M	1.05
30.00	CO	0.42

* 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

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47166

DST#: 5

ATTN: John O Farmer IV

Test Start: 2012.06.03 @ 19:55:28

Tool Information

Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 bbl	Tool Weight: 2200.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 45.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3226.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	115.00 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			3206.00	
Shut In Tool	5.00			3211.00	
Hydraulic tool	5.00			3216.00	
Packer	5.00			3221.00	21.00 Bottom Of Top Packer
Packer	5.00			3226.00	
Stubb	1.00			3227.00	
Perforations	5.00			3232.00	
Recorder	0.00	6625	Inside	3232.00	
Recorder	0.00	8700	Outside	3232.00	
Blank Spacing	65.00			3297.00	
Perforations	20.00			3317.00	
Bullnose	3.00			3320.00	94.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

18-4s-18w Phillips,KS

PO Box 352
Russell KS 67665-2635

Shaw #1

Job Ticket: 47166

DST#: 5

ATTN: John O Farmer IV

Test Start: 2012.06.03 @ 19:55:28

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 60.00 sec/qt
Water Loss: 8.77 in³
Resistivity: ohm.m
Salinity: 1000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 28 deg API
Water Salinity: 49000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	SOCMW 1%O20%M79%W	0.596
62.00	OCWM 10%O40%W50%M	0.870
75.00	OCM 10%O90%M	1.052
30.00	CO	0.421

Total Length: 229.00 ft Total Volume: 2.939 bbl

Num Fluid Samples: 0

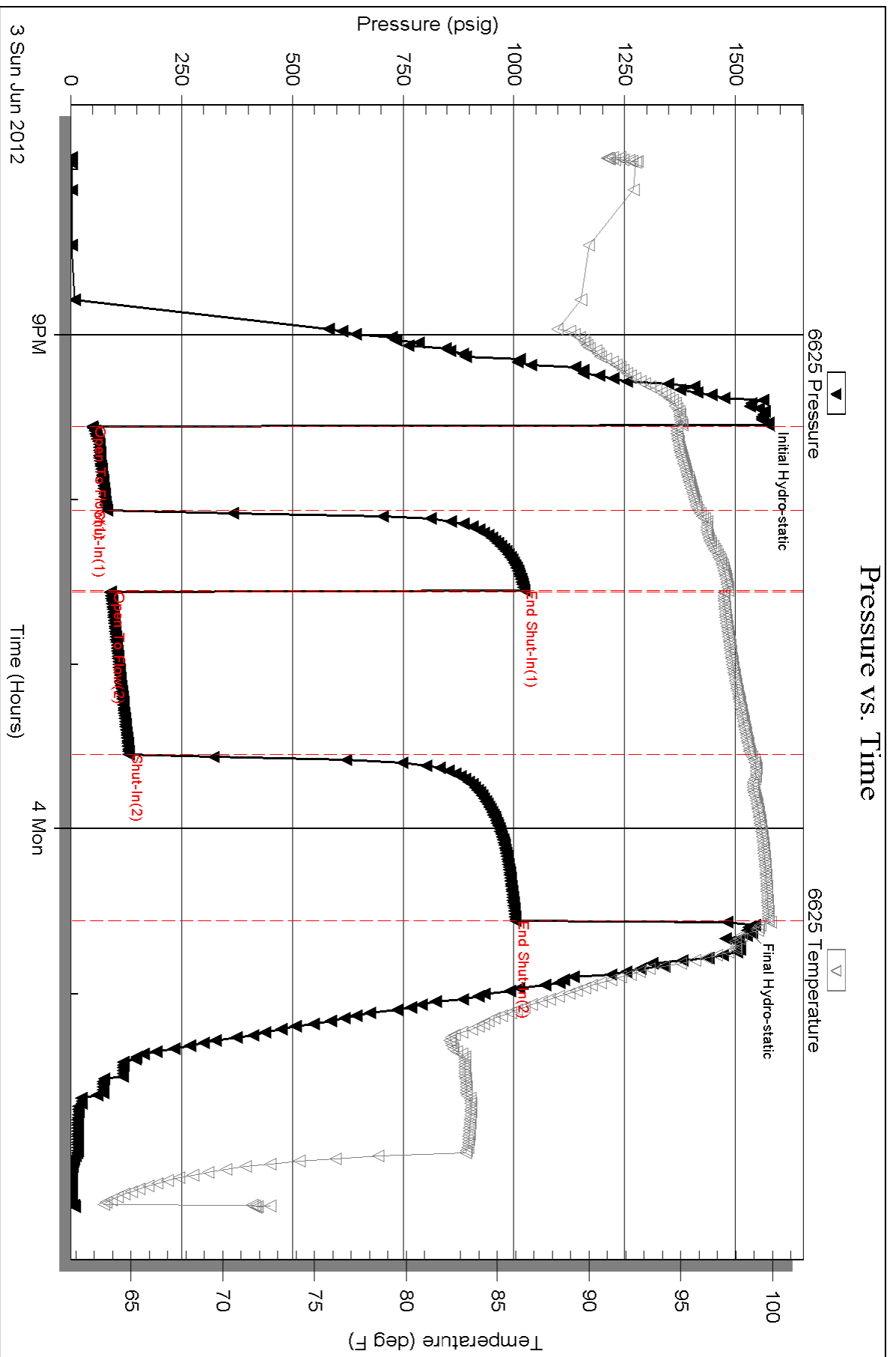
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15 @ 73F



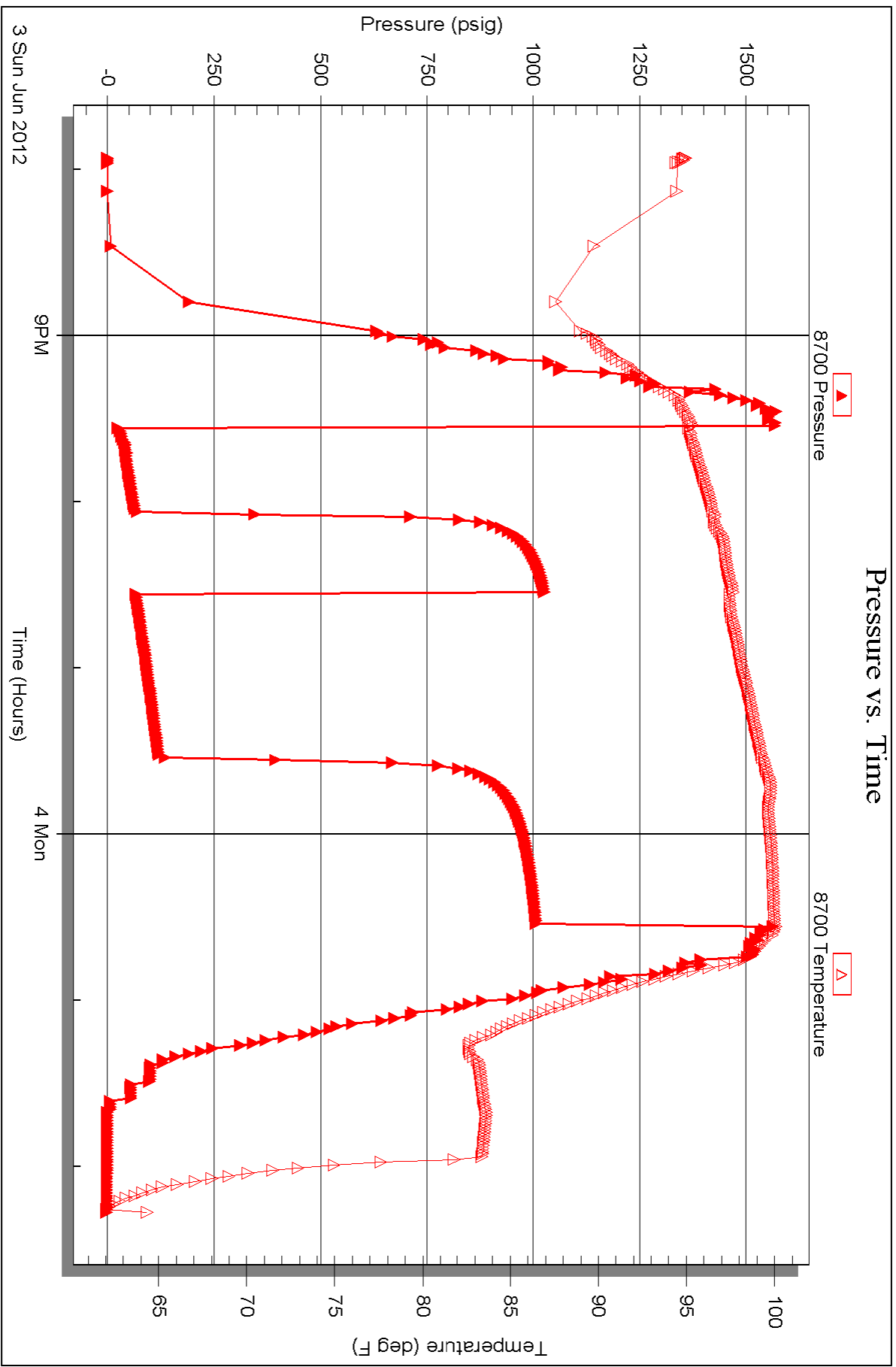
Serial #: 8700

Outside

John O Farmer Inc

Shaw #1

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 47166

Printed: 2012.06.13 @ 11:08:18



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47162

Well Name & No. Shaw #1 Test No. 1 Date 6-1-12
 Company John D. Farmer, Inc Elevation 1910 KB 1902 GL
 Address PO Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Austin Klaus Rig Discovery rig 1
 Location: Sec. 18 Twp. 45 Rge. 18^w Co. Phillips State 1

Interval Tested 3070 - 3130 Zone Tested Top run to - LKC "A"
 Anchor Length 60 Drill Pipe Run 3044 Mud Wt. 8.7
 Top Packer Depth 3065 Drill Collars Run 30 Vis 50
 Bottom Packer Depth 3070 Wt. Pipe Run - WL 7.6
 Total Depth 3130 Chlorides 500 ppm System LCM 2#
 Blow Description IFP - Weak Blow 1/4" To surface Blow
ISTP - NO Blow
FFP - NO Blow
FSIP - NO Blow

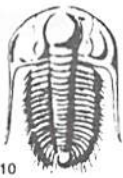
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>50 CM</u>		<u>2</u>		<u>98</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 95 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1474</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1640</u>
(B) First Initial Flow <u>25</u>	<input type="checkbox"/> Jars	T-Started <u>1715</u>
(C) First Final Flow <u>32</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1845</u>
(D) Initial Shut-In <u>776</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2045</u>
(E) Second Initial Flow <u>35</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2202</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>130 RT</u> 201.50	Comments
(G) Final Shut-In <u>770</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1452</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>1351.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1351.50</u>	

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47163

Well Name & No. Shaw #1 Test No. 2 Date 6-2-12
 Company John O Farmer Inc Elevation 1910 KB 1902 GL
 Address P O Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Austin Klaus Rig Discovery rig 1
 Location: Sec. 18 Twp. 4^s Rge. 18^w Co. rego State K

Interval Tested 3148-3188 Zone Tested LKC C-D
 Anchor Length 40 Drill Pipe Run 3106 Mud Wt. 8.5
 Top Packer Depth 3143 Drill Collars Run 30 Vis 50
 Bottom Packer Depth 3148 Wt. Pipe Run - WL 7.6
 Total Depth 3188 Chlorides 500 ppm System LCM 2#

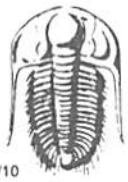
Blow Description IFP - WEAK BLOW 4" TO SURFACE BLOW
ISIP - NO BLOW
FFP - NO BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OCM</u>	<u>10</u>		<u>90</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 10 BHT 96 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1510 Test 1150 T-On Location 0530
 (B) First Initial Flow 23 Jars - T-Started 0610
 (C) First Final Flow 28 Safety Joint - T-Open 0740
 (D) Initial Shut-In 553 Circ Sub - T-Pulled 0940
 (E) Second Initial Flow 31 Hourly Standby - T-Out 1056
 (F) Second Final Flow 34 Mileage 201.50 Comments -
 (G) Final Shut-In 190 Sampler -
 (H) Final Hydrostatic 1482 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 0
 Day Standby - Total 1351.50
 Accessibility - MP/DST Disc't -
 Sub Total 1351.50

Approved By Austin B Klaus 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47164

Well Name & No. Shaw #1 Test No. 3 Date 6-2-12
 Company John O. Farmer Inc Elevation 1910 KB 1902 GL
 Address PO Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Austin Klaus Rig Discovery rig 1
 Location: Sec. 1B Twp. 4^s Rge. 18^w Co. Phillips State Ks

Interval Tested 3186 - 3212 Zone Tested LKC E-F
 Anchor Length 26 Drill Pipe Run 3139 Mud Wt. 8.9
 Top Packer Depth 3181 Drill Collars Run 30 Vis 49
 Bottom Packer Depth 3186 Wt. Pipe Run - WL 8
 Total Depth 3212 Chlorides 1000 ppm System LCM 2#
 Blow Description IFP - SURFACE BLOW THRU-OUT
ISIP - NO BLOW
FFP - WEAK BLOW THRU-OUT 1/2" TO 1/4" BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GIP</u>				
<u>40</u>	<u>CO</u>				
<u>30</u>	<u>M60</u>	<u>10</u>	<u>50</u>		<u>40</u>

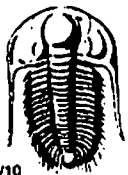
Rec Total 70 BHT 97 Gravity 36 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1538 Test 1150 T-On Location 1630
 (B) First Initial Flow 22 Jars _____ T-Started 1655
 (C) First Final Flow 33 Safety Joint _____ T-Open 1825
 (D) Initial Shut-In 923 Circ Sub _____ T-Pulled 2125
 (E) Second Initial Flow 31 Hourly Standby _____ T-Out 2253
 (F) Second Final Flow 47 Mileage 201.50 Comments _____
 (G) Final Shut-In 934 Sampler _____
 (H) Final Hydrostatic 1490 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1351.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1351.50

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.

Test Ticket

NO. 47165



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Well Name & No. Shaw #1 Test No. 4 Date 6-3-12
 Company John O Farmer, Inc Elevation 1910 KB 1902 GL
 Address PO Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Austin Klaus Rig Discovery 191
 Location: Sec. 18 Twp. 4^s Rge. 18^w Co. Phillips State K

Interval Tested 3214-3228 Zone Tested LKC "G"
 Anchor Length 14 Drill Pipe Run 3169 Mud Wt. 9.1
 Top Packer Depth 3209 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 3214 Wt. Pipe Run - WL 8
 Total Depth 3228 Chlorides 1000 ppm System LCM 2 #

Blow Description IFP - Weak Blow, 1/4"
TSIP - NO BLOW
FFP - surface Blow thru-out
FSIP - NO BLOW

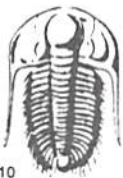
Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>CO</u>				
<u>15</u>	<u>046CM</u>	<u>5</u>	<u>15</u>		<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 17 BHT 96 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1530 Test 1150 T-On Location 0445
 (B) First Initial Flow 25 Jars _____ T-Started 0500
 (C) First Final Flow 28 Safety Joint _____ T-Open 0620
 (D) Initial Shut-In 614 Circ Sub _____ T-Pulled 0820
 (E) Second Initial Flow 29 Hourly Standby _____ T-Out 0928
 (F) Second Final Flow 34 Mileage 201.50 Comments _____
 (G) Final Shut-In 100 Sampler _____
 (H) Final Hydrostatic 1508 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1351.50 Sub Total 0
 Total 1351.50 MP/DST Disc't _____

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

Approved By Austin Klaus Our Representative Ray Schwager **THANK YOU**
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47166

Well Name & No. Shaw #1 Test No. 5 Date 6-3-12
 Company John O Farmer Inc Elevation 1910 KB 1902 GL
 Address PO Box 352 Russell, Ks 67665-2635
 Co. Rep / Geo. Austin Klaus Rig Discovery rig 1
 Location: Sec. 18 Twp. 4^s Rge. 18^w Co. Phillips State Ks

Interval Tested 3226-3320 Zone Tested LKC H-K
 Anchor Length 94 Drill Pipe Run 3197 Mud Wt. 9.1
 Top Packer Depth 3221 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3226 Wt. Pipe Run - WL 8.8
 Total Depth 3320 Chlorides 1000 ppm System LCM 2#

Blow Description IFP - WEAK TO A FAIR BLOW 1/2" TO 4" BLOW
ISIP - NO BLOW
FFP - WEAK BLOW, SURFACE TO 2" BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>SOC MW</u>	<u>1</u>	<u>79</u>	<u>20</u>	
<u>62</u>	<u>OCWM</u>	<u>10</u>	<u>40</u>	<u>50</u>	
<u>75</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
<u>30</u>	<u>CO</u>				

Rec Total 229 BHT 100 Gravity 28 API RW .15 @ 73 °F Chlorides 49000 ppm

(A) Initial Hydrostatic 1560 Test 1150 T-On Location 1910
 (B) First Initial Flow 48 Jars T-Started 1955
 (C) First Final Flow 82 Safety Joint T-Open 2135
 (D) Initial Shut-In 1023 Circ Sub T-Pulled 0035
 (E) Second Initial Flow 98 Hourly Standby T-Out 0217
 (F) Second Final Flow 130 Mileage 201.50 Comments Loaded Tool
 (G) Final Shut-In 1003 Sampler 3AM 6-4-12
 (H) Final Hydrostatic 1526 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Sub Total 0
 Total 1351.50
 MP/DST Disc't

Approved By Austin Klaus Our Representative Ray Schwager Thank you
 Sub Total 1351.50

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Discovery Drilling

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548
P.O. Box 352-370 West Wichita Avenue PO Box 763
Russell, KS 67665-2635 Hays, KS 67601

Lease: Shaw # 1 Location: NE-NW-SW-SE
Section 18/ 4S/ 18W
Phillips Co., KS

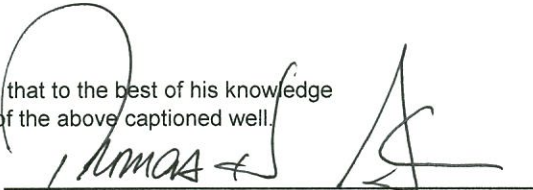
Loggers Total Depth: 3378' API#15- 147-20,680-00-00
 Rotary Total Depth: 3391' Elevation: 1902 GL / 1910 KB
 Commenced: 5/29/2012 Completed: 6/4/2012
 Casing: 8 5/8" @ 223.19'W/150sks Status: Oilwell
5 1/2" @ 3389'W/130sks
Port Collar @ 1473'

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1497'</u>
Dakota Sand	<u>870'</u>	Shale & Lime	<u>1843'</u>
Shale	<u>944'</u>	Shale	<u>2180'</u>
Cedar Hill Sand	<u>1017'</u>	Shale & Lime	<u>2509'</u>
Red Bed Shale	<u>1193'</u>	Lime & Shale	<u>3044'</u>
Anhydrite	<u>1464'</u>	RTD	<u>3391'</u>
Base Anhydrite	<u>1497'</u>		

STATE OF KANSAS))
) ss
 COUNTY OF ELLIS))

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

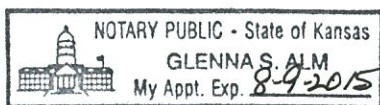

 Thomas H. Alm

Subscribed and sworn to before me on 6-6-2012

My Commission expires: 8-9-2015

(Place stamp or seal below)


 Notary Public



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5403

Date	5-29-12	Sec.	18	Twp.	4	Range	18	County	PHILLIPS	State	KANSAS	On Location		Finish	6:45 pm
Lease	SHAW		Well No.	#1		Location	GLADE 3W-1N-1/2W-N INTO								
Contractor	DISCOVERY #1 BEST.						Owner	J.O. FARMER							
Type Job	SURFACE						To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4"		T.D.	223'		Charge To	J.O. FARMER								
Csg.	8 1/8"		Depth	223'		Street	370 W. WICHITA AVE.								
Tbg. Size			Depth			City	PO Box 352 Russell KANSAS 67665								
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.			Shoe Joint	15'		Cement Amount Ordered	160 com - 3% - 2% GEL								
Meas Line			Displace	13 BLS											

EQUIPMENT

Pumptrk #5	No.	Cementor	Beett	Common	160	used 150 sks.
Bulktrk #10	No.	Driver	Brian	Poz. Mix		
Bulktrk P/4	No.	Driver	Cisco	Gel.	3	

JOB SERVICES & REMARKS

Remarks:	Calcium	5
Rat Hole	Hulls	
Mouse Hole	Salt	
Centralizers	Flowseal	
Baskets	Kol-Seal	
D/V or Port Collar	Mud CLR 48	
	CFL-117 or CD110 CAF 38	
	Sand	
	Handling	168
	Mileage	

FLOAT EQUIPMENT

Guide Shoe	1
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

CEMENT DID NOT CIRCULATE 1x

THANK YOU 1x

Pumptrk Charge Surface
Mileage 57

X Signature *Cliff Mays*

Tax
Discount
Total Charge

JOB LOG

SWIFT Services, Inc.

DATE 6-4-12 PAGE NO. 1

CUSTOMER John O. Farmer WELL NO. #1 LEASE Shaw JOB TYPE Cement Longstring TICKET NO. 21783

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD 3391' DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1845							DN location - Ready @ 1900 HR
	1855							Start 5 1/2" 14#/ft casing to 3389'
								Insert Float Shoe w/ Fill-up
								Cent 1-3-5-8-10-12-48 1/2 way up
								Cement Baskets Run and #2-13-48 1/2 way up
								Port Collar #48 @ 1473'
								L.D. Baffle - Shoe Jt. 22' @ 3371' @ 82 1/4'
								Drop fillup ball 5 Jts out
	2010							Fin run casing
	2030							Start circ / Rotate
								Fin circ
			7					Plug Rth - 30 SKS out MTH 15 SKS out
		6	12				200	Pump 500 gal Mead Flush
	2100	6	20				200	Pump 20 BB1 KCL Flush
							200	Start 130 SKS EH-2 unit
			32				150	Fin out - Wash Pump & Lines
								Drop L.D. Plug -
		7					200	Start Displ
		7	60				300	Caught unit @ 60 BB1
	2130	5	82 1/4				700	Plug Down - Hold - Release & Hold
							1000	Job Complete
								Washup & Reelup TRS
								Thanks Don, Brian & T.J.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 689

Date	6-21-12	Sec.	Twp.	Range	County	State	On Location	Finish	
Lease	Shaw	Well No.	1	Location					Speed 2E W 1/4 W into
Contractor	Chito's	Owner						To Quality Oilwell Cementing, Inc.	
Type Job	Port collar	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	7 7/8	T.D.							
Csg.	5 1/2	Depth	Charge To						
Tbg. Size	2 7/8	Depth	S.O. Farmer						
Tool	Port collar	Depth	1473	Street		City			
Cement Left in Csg.		Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line		Displace	4BL	Cement Amount Ordered		275 QMDC 1/4# F10			

EQUIPMENT

Pumptrk	5	No.	Cement Helper	Craig	Common	225
Bulktrk		No.	Driver	Brett	Poz. Mix	
Bulktrk	14	No.	Driver	Levi	Gel.	

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 50#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Tool @ 1473. Test to 1000# hold open tool Bst. Circulation. Mix 225SK + Cement Circulated. Displace 4BL. Close Tool Pressure to 1000# Run 5 joints wash clean.	Sand
	Handling 225 225
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	port collar
Mileage	59

X Signature *Brian Edwards*

Tax
Discount
Total Charge

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 14, 2012

Marge Schulte
Farmer, John O., Inc.
370 W WICHITA AVE
PO BOX 352
RUSSELL, KS 67665-2635

Re: ACO1
API 15-147-20680-00-00
Shaw 1
SE/4 Sec.18-04S-18W
Phillips County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Marge Schulte