



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1218596
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1218596

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
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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	Johnson D 1
Doc ID	1218596

Tops

Name	Top	Datum
Anhydrite	949'	(+954)
Tarkio	2538'	(-635)
Topeka	2795'	(-892)
Heebner	3019'	(-1116)
Lansing	3075'	(-1172)
Base/KC	3311'	(-1408)
Arbuckle	3323'	(-1420)
L.T.D.	3400'	(-1497)



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
370 West Wcihita Avenue - P. O. Box 352 PO Box 763
Russell, KS 67665 Hays, KS 67601

Lease: Johnson "D" # 1 Location: 2470 FSL - 1145 FWL
NE/NE/NW/SW
Section 35/ 13S/ 15W
Russell County, KS

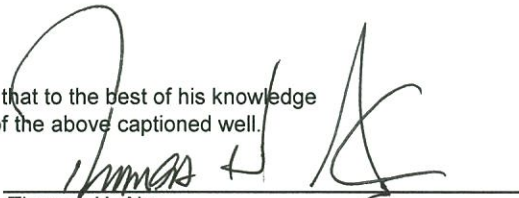
Loggers Total Depth: 3400' API#15- 167-23,977-00-00
Rotary Total Depth: 3400' Elevation: 1895 GL - 1903 KB
Commenced: 6/18/2014 Completed: 6/25/2014
Casing: 8 5/8" @ 515'W/225sks Status: D & A

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>989'</u>
Dakota Sand	<u>376'</u>	Shale & Lime	<u>1585'</u>
Shale	<u>448'</u>	Shale	<u>2016'</u>
Cedar Hill Sand	<u>481'</u>	Shale & Lime	<u>2539'</u>
Red Bed Shale	<u>646'</u>	Lime & Shale	<u>2990'</u>
Anhydrite	<u>952'</u>	RTD	<u>3400'</u>
Base Anhydrite	<u>989'</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.

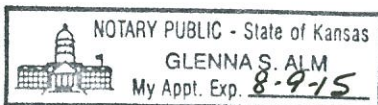

Thomas H. Alm

Subscribed and sworn to before me on 6-30-14

My Commission expires: 8-9-15

(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. 200

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-18-14	35	13	15	Russell	KS		12:15 AM

Location *Balka & 40 W to 179th 1/2 S E into*

Lease	Well No.	Owner	
<i>Johnson "D"</i>	<i>#1</i>	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.	
Contractor	Type Job	Charge To	
<i>Discovery #2</i>	<i>Surface</i>	<i>John O. Farmer</i>	
Hole Size	T.D.	Street	
<i>12 1/4</i>	<i>515</i>		
Csg.	Depth	City	
<i>8 5/8</i>		State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		Cement Amount Ordered <i>225 com 3% cc 2% Gel</i>	
Cement Left in Csg.	Shoe Joint		
<i>30'</i>	<i>30'</i>		
Meas Line	Displace		
	<i>31 bbl</i>		

EQUIPMENT

Pumptrk	No.	Cementer	Common
<i>16</i>		<i>Billy</i>	<i>225</i>
Bulktrk	No.	Helper	Poz. Mix
<i>21</i>		<i>Ryan</i>	<i>5</i>
Bulktrk	No.	Driver	Gel.
<i>Pu</i>		<i>Brett</i>	<i>9</i>
		Driver	Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <i>239</i>
	Mileage

FLOAT EQUIPMENT

<i>Cement</i>	Guide Shoe
<i>Circulated</i>	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<i>Wood Plug-1</i>
	Pumptrk Charge <i>long Surface</i>
	Mileage <i>7</i>

X Signature *[Handwritten Signature]*

Tax
Discount
Total Charge

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. 304

Date	6-24-1935	Sec.	13	Range	15	County	Russell	State	KS	On Location	8:45pm	Finish	1:00AM
Lease	Johnson D		Well No.	2		Owner	179th St Eto						
Contractor	Discover				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.								
Type Job	plug				Charge To								
Hole Size	7 1/8		T.D.	3400		Street							
Csg.	Dill pipe		Depth		John O Farmer								
Tbg. Size			Depth		City								
Tool			Depth		State								
Cement Left in Csg.			Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		Cement Amount Ordered 2356040								
EQUIPMENT					Uyo gel Ya flow								
Pumptrk	20	No.	Cementer	Mitt		Common							
			Helper			Poz. Mix							
Bulktrk	9	No.	Driver	Mick		Gel.							
			Driver			Calcium							
Bulktrk	14	No.	Driver	Rygar		Hulls							
			Driver			Salt							
JOB SERVICES & REMARKS					Flowseal								
Remarks:					Kol-Seal								
Rat Hole	36 SWS				Mud CLR 48								
Mouse Hole	15 SWS				CFL-117 or CD110 CAF 38								
Centralizers					Sand								
Baskets					Handling								
D/V or Port Collar					Mileage								
1st	3303ft		50 SWS		FLOAT EQUIPMENT								
2nd	980ft		50 SWS		Guide Shoe								
3rd	265ft		50 SWS		Centralizer								
4th	40ft		10 SWS		Baskets								
					AFU Inserts								
					Float Shoe								
					Latch Down								
					Wood Plug								
					Pumptrk Charge								
					Mileage								
					Tax								
					Discount								
					Total Charge								



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Johnson D #1

35-13s-15w Russell,KS

Start Date: 2014.06.22 @ 00:50:35

End Date: 2014.06.22 @ 06:39:59

Job Ticket #: 59312 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.26 @ 13:25:33

John O Farmer Inc

35-13s-15w Russell,KS

Johnson D #1

DST # 1

Toronto - LKC B

2014.06.22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59312

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.06.22 @ 00:50:35

GENERAL INFORMATION:

Formation: **Toronto - LKC B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:53:30

Time Test Ended: 06:39:59

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 3017.00 ft (KB) To 3110.00 ft (KB) (TVD)

Reference Elevations: 1903.00 ft (KB)

Total Depth: 3110.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 27.62 psig @ 3023.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.22

End Date:

2014.06.22

Last Calib.:

2014.06.22

Start Time: 00:50:35

End Time:

06:39:59

Time On Btm:

2014.06.22 @ 02:47:00

Time Off Btm:

2014.06.22 @ 05:10:59

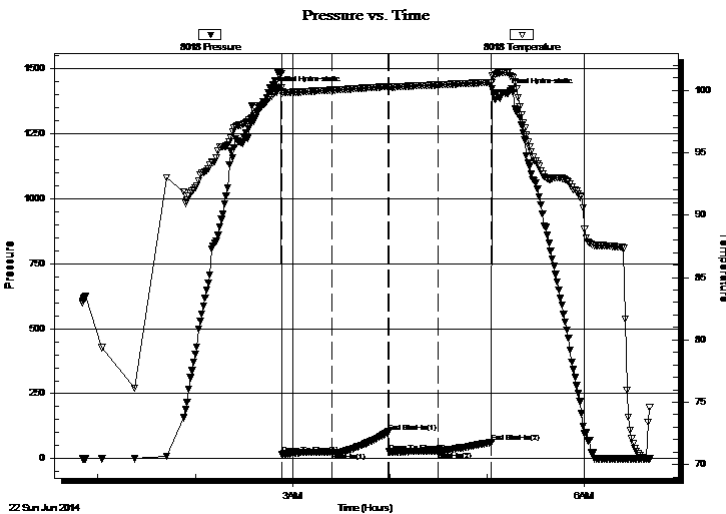
TEST COMMENT: 30-IFP-surface bl, died in 10 min

30-ISIP-no bl

30-FFP-no bl

30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1417.18	99.52	Initial Hydro-static
7	17.37	99.75	Open To Flow (1)
37	24.96	100.01	Shut-In(1)
72	102.94	100.31	End Shut-In(1)
73	26.08	100.27	Open To Flow (2)
103	27.62	100.44	Shut-In(2)
136	63.02	100.64	End Shut-In(2)
144	1407.83	101.44	Final Hydro-static

Recovery

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

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
ATTN: Austin Klaus

35-13s-15w Russell,KS

Johnson D #1

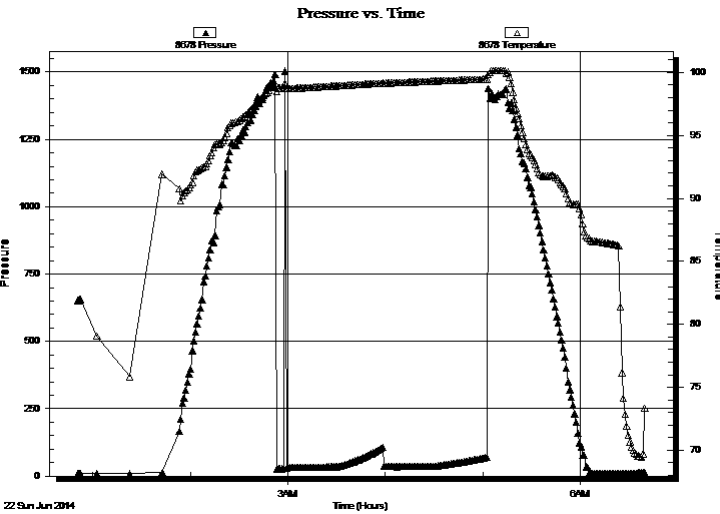
Job Ticket: 59312 DST#: 1
Test Start: 2014.06.22 @ 00:50:35

GENERAL INFORMATION:

Formation: Toronto - LKC B		
Deviated: No Whipstock: ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 02:53:30	Tester: Ray Schwager	
Time Test Ended: 06:39:59	Unit No: 70	
Interval: 3017.00 ft (KB) To 3110.00 ft (KB) (TVD)	Reference Elevations: 1903.00 ft (KB)	
Total Depth: 3110.00 ft (KB) (TVD)	1895.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft

Serial #: 8678 Outside			
Press@RunDepth: psig @ 3023.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2014.06.22 End Date: 2014.06.22	Last Calib.: 2014.06.22		
Start Time: 00:50:51 End Time: 06:39:15	Time On Btm:		
	Time Off Btm:		

TEST COMMENT: 30-IFP-surface bl, died in 10 min
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)
5.00	Mud	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

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59312

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.06.22 @ 00:50:35

Tool Information

Drill Pipe:	Length: 2993.00 ft	Diameter: 3.80 inches	Volume: 41.98 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: 65000.00 lb
			<u>Total Volume: 42.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3017.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	114.00 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			2997.00	
Shut In Tool	5.00			3002.00	
Hydraulic tool	5.00			3007.00	
Packer	5.00			3012.00	21.00 Bottom Of Top Packer
Packer	5.00			3017.00	
Stubb	1.00			3018.00	
Perforations	5.00			3023.00	
Recorder	0.00	8018	Inside	3023.00	
Recorder	0.00	8678	Outside	3023.00	
Blank Spacing	64.00			3087.00	
Perforations	20.00			3107.00	
Bullnose	3.00			3110.00	93.00 Bottom Packers & Anchor

Total Tool Length: 114.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59312

DST#: 1

ATTN: Austin Klaus

Test Start: 2014.06.22 @ 00:50:35

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: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.70 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

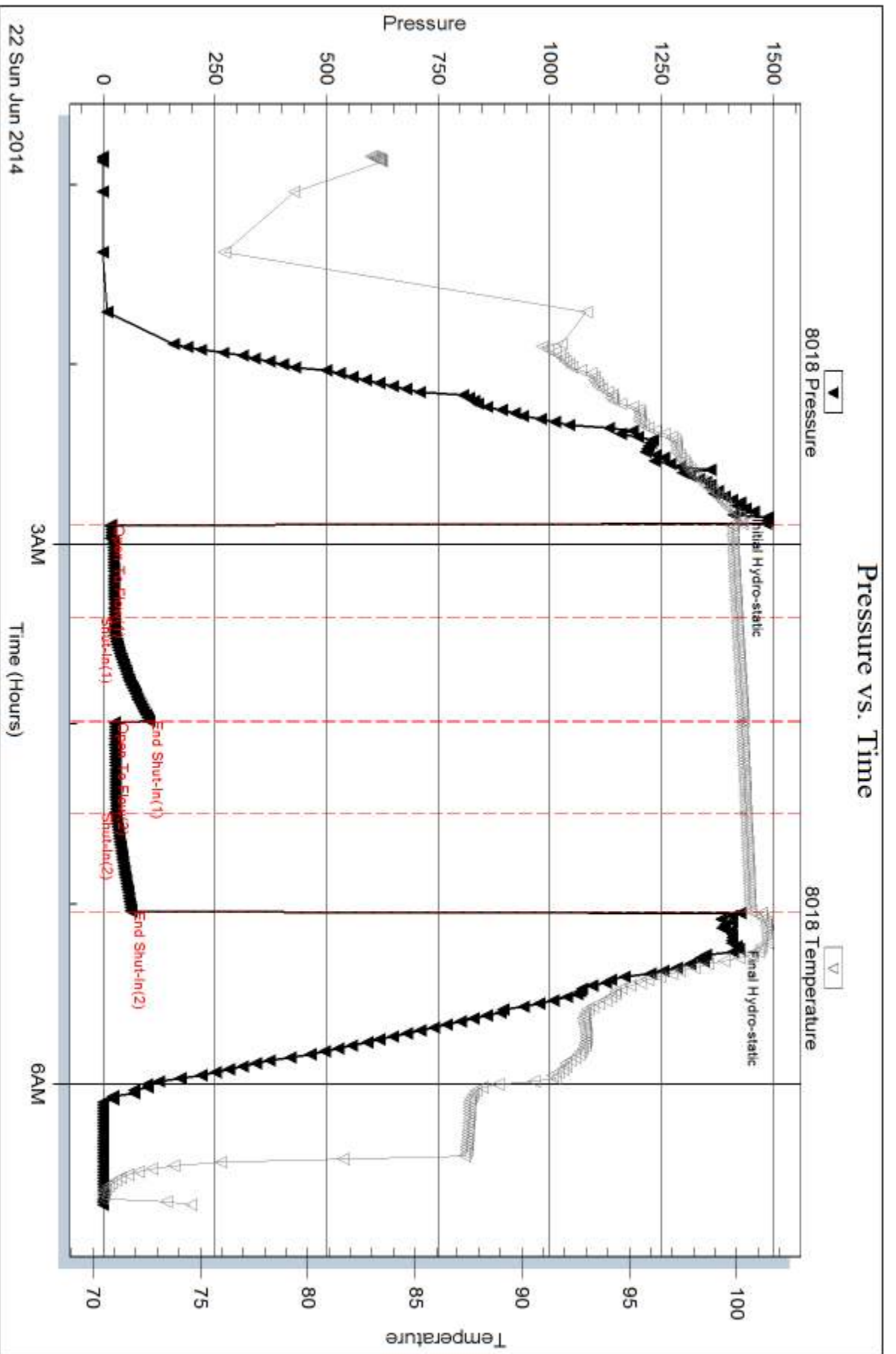
Num Gas Bombs: 0

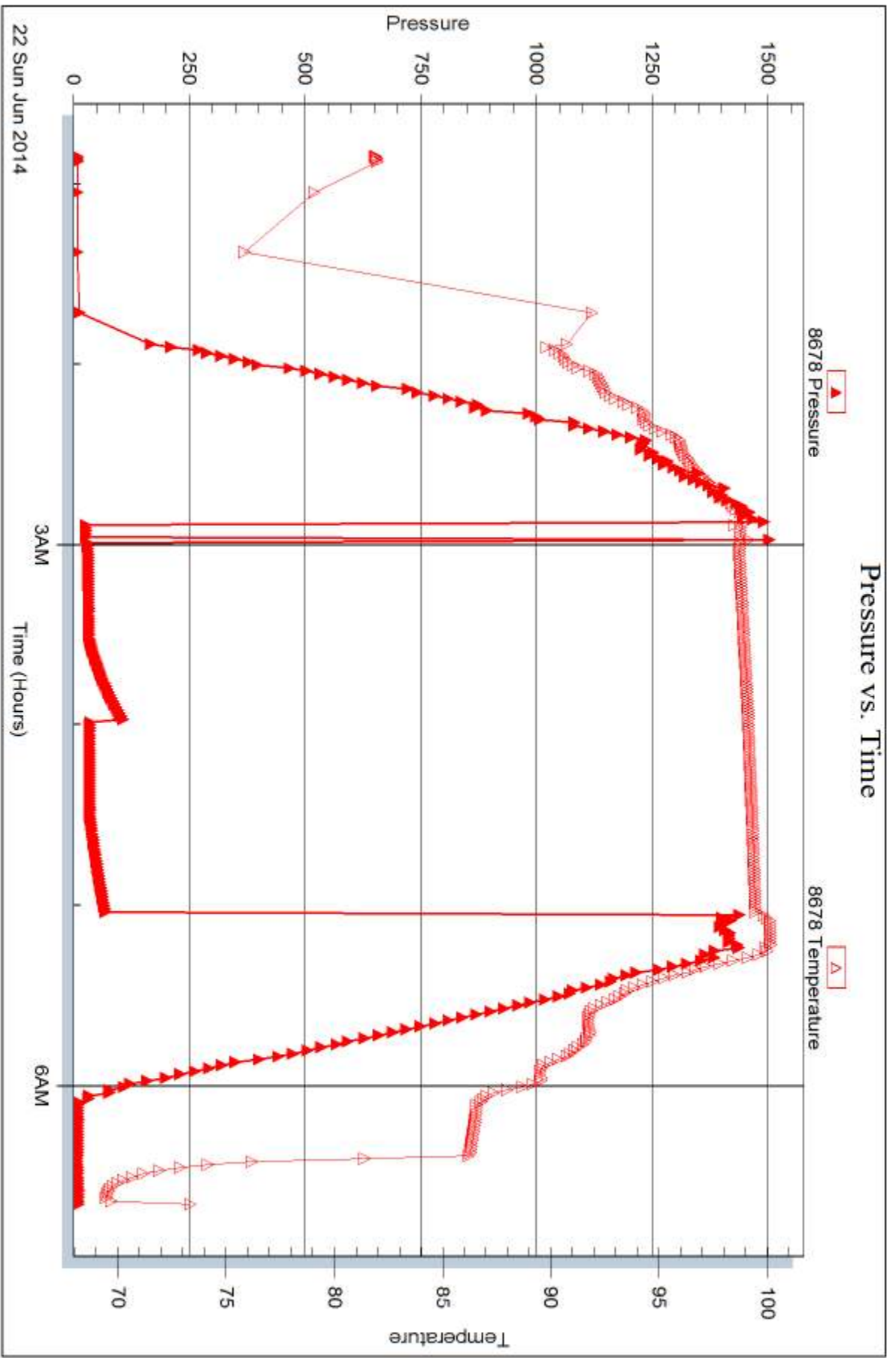
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Johnson D #1

35-13s-15w Russell,KS

Start Date: 2014.06.22 @ 15:50:44

End Date: 2014.06.22 @ 20:49:38

Job Ticket #: 59313 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.26 @ 13:25:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59313

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.06.22 @ 15:50:44

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:23:39

Time Test Ended: 20:49:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3102.00 ft (KB) To 3140.00 ft (KB) (TVD)

Reference Elevations: 1903.00 ft (KB)

Total Depth: 3140.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018 Inside

Press@RunDepth: 19.61 psig @ 3108.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.22 End Date: 2014.06.22

Last Calib.: 2014.06.22

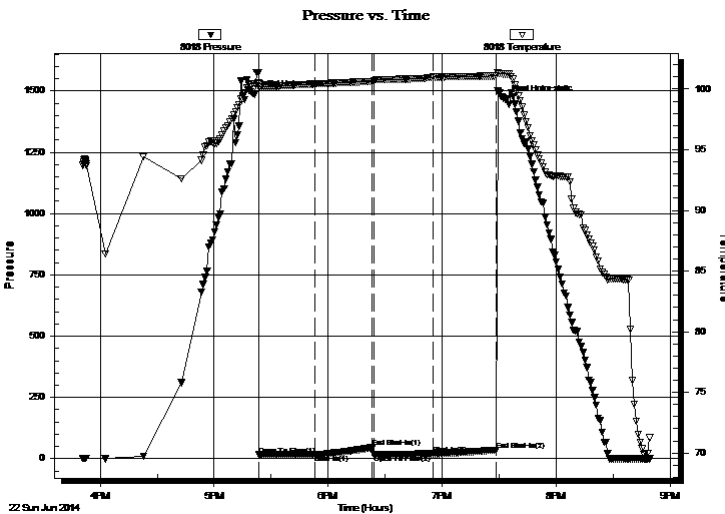
Start Time: 15:50:44 End Time: 20:49:38

Time On Btm: 2014.06.22 @ 17:21:09

Time Off Btm: 2014.06.22 @ 19:33:09

TEST COMMENT: 30-IFP-w k bl thru-out surface to 1/8" bl
30-ISIP-no bl
30-FFP-no bl
30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1486.46	100.43	Initial Hydro-static
3	15.92	100.17	Open To Flow (1)
32	17.55	100.42	Shut-In(1)
62	46.66	100.64	End Shut-In(1)
63	18.43	100.67	Open To Flow (2)
94	19.61	100.98	Shut-In(2)
127	35.24	101.09	End Shut-In(2)
132	1467.06	101.24	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

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

35-13s-15w Russell, KS
Johnson D #1
Job Ticket: 59313 **DST#: 2**
Test Start: 2014.06.22 @ 15:50:44

GENERAL INFORMATION:

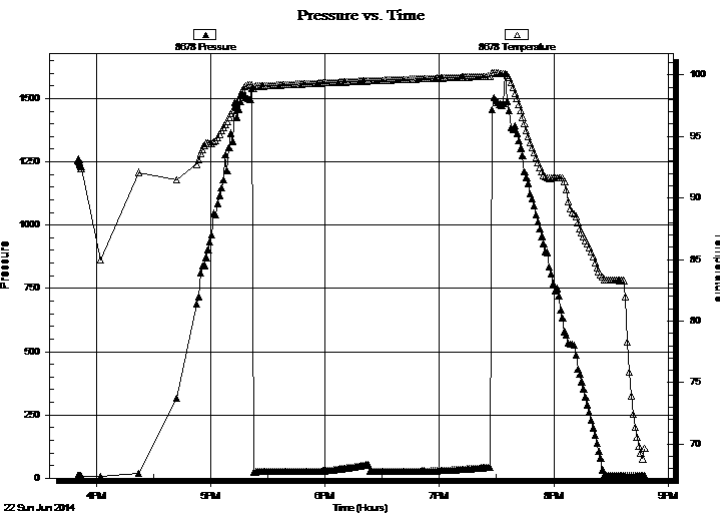
Formation: LKC C-D				Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock:		ft (KB)		Tester: Ray Schwager
Time Tool Opened: 17:23:39				Unit No: 70
Time Test Ended: 20:49:38				Reference Elevations: 1903.00 ft (KB)
Interval: 3102.00 ft (KB) To 3140.00 ft (KB) (TVD)				1895.00 ft (CF)
Total Depth: 3140.00 ft (KB) (TVD)				KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair			

Serial #: 8678

Outside

Press@RunDepth:	psig @	3108.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2014.06.22	End Date:	2014.06.22	Last Calib.:	2014.06.22
Start Time:	15:50:15	End Time:	20:48:09	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 30-IFP-w k bl thru-out surface to 1/8" 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)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59313

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.06.22 @ 15:50:44

Tool Information

Drill Pipe:	Length: 3066.00 ft	Diameter: 3.80 inches	Volume: 43.01 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:	60000.00 lb
			<u>Total Volume: 43.16 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3102.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	59.00 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			3082.00	
Shut In Tool	5.00			3087.00	
Hydraulic tool	5.00			3092.00	
Packer	5.00			3097.00	21.00 Bottom Of Top Packer
Packer	5.00			3102.00	
Stubb	1.00			3103.00	
Perforations	5.00			3108.00	
Recorder	0.00	8018	Inside	3108.00	
Recorder	0.00	8678	Outside	3108.00	
Perforations	29.00			3137.00	
Bullnose	3.00			3140.00	38.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59313

DST#: 2

ATTN: Austin Klaus

Test Start: 2014.06.22 @ 15:50:44

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.11 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

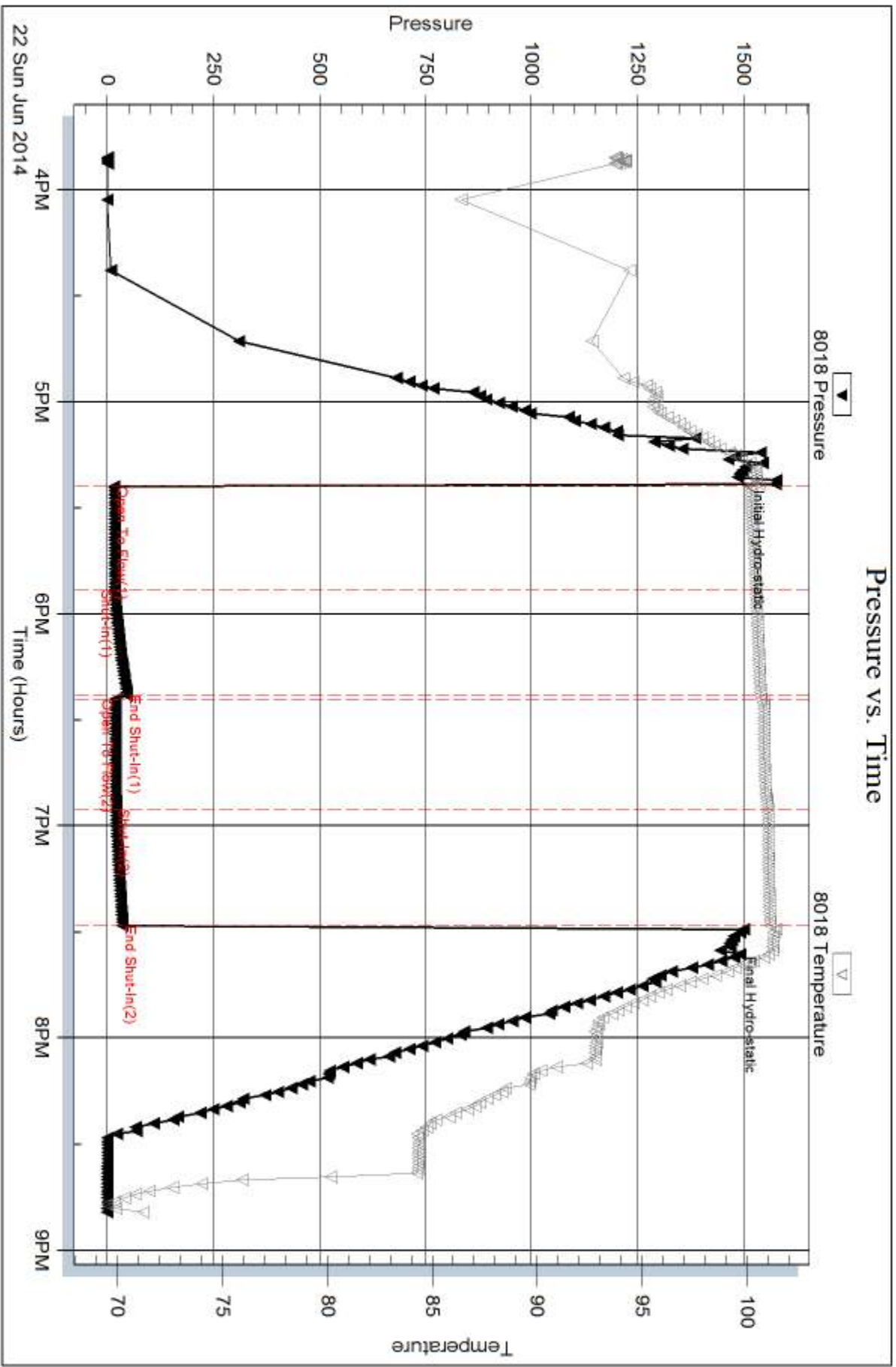
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

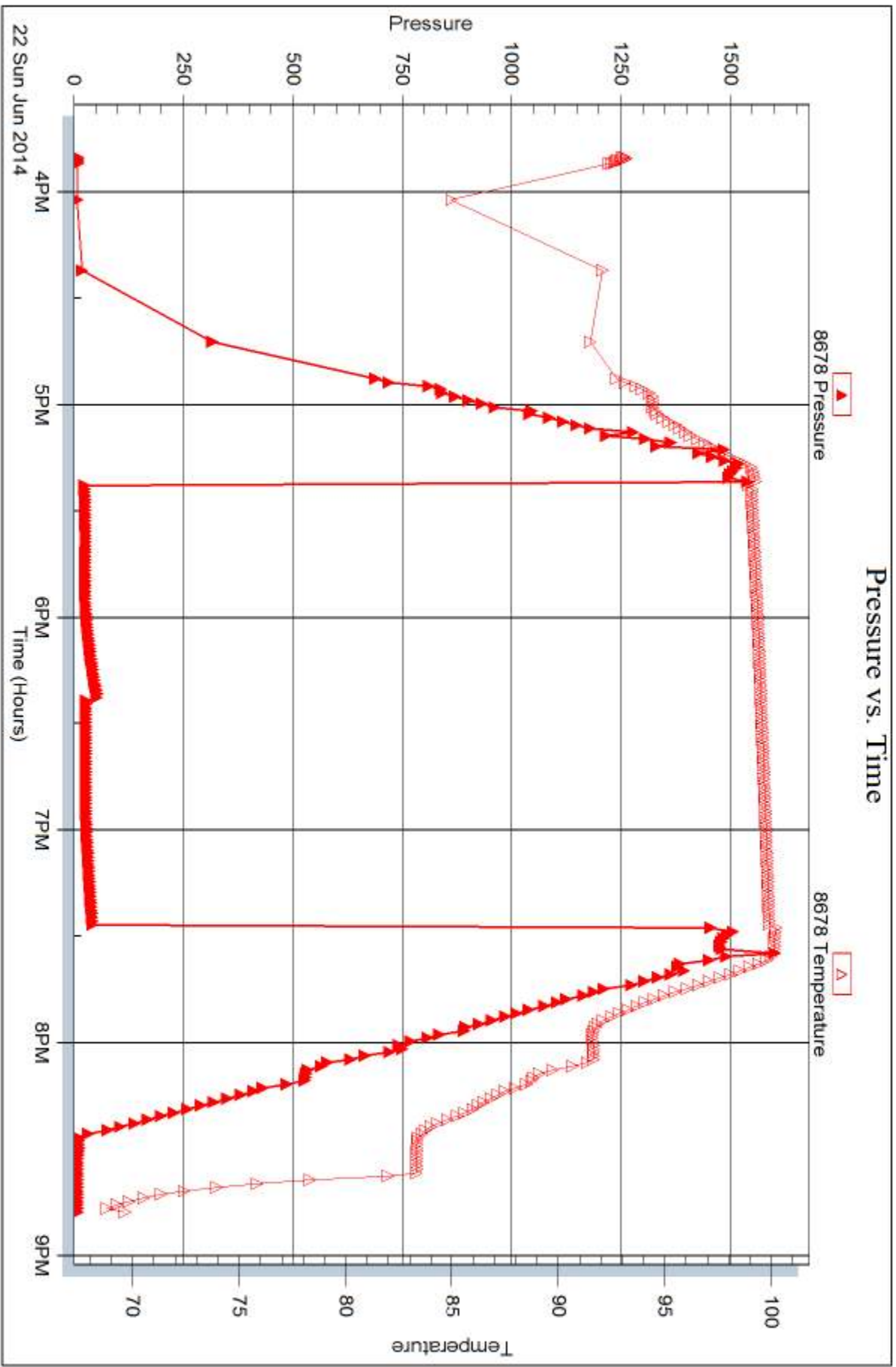


Serial #: 8678

Outside John O Farmer Inc

Johnson D#1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59313

Printed: 2014.06.26 @ 13:25:08



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Johnson D #1

35-13s-15w Russell,KS

Start Date: 2014.06.23 @ 18:30:15

End Date: 2014.06.24 @ 00:01:39

Job Ticket #: 59314 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.26 @ 13:24:45

John O Farmer Inc
35-13s-15w Russell,KS
Johnson D #1
DST # 3
LKC H-L
2014.06.23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59314

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.06.23 @ 18:30:15

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:08:10

Time Test Ended: 00:01:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3194.00 ft (KB) To 3314.00 ft (KB) (TVD)

Reference Elevations: 1903.00 ft (KB)

Total Depth: 3314.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018

Inside

Press@RunDepth: 18.01 psig @ 3196.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.23

End Date:

2014.06.24

Last Calib.:

2014.06.24

Start Time: 18:30:15

End Time:

00:01:39

Time On Btm:

2014.06.23 @ 20:06:10

Time Off Btm:

2014.06.23 @ 22:13:10

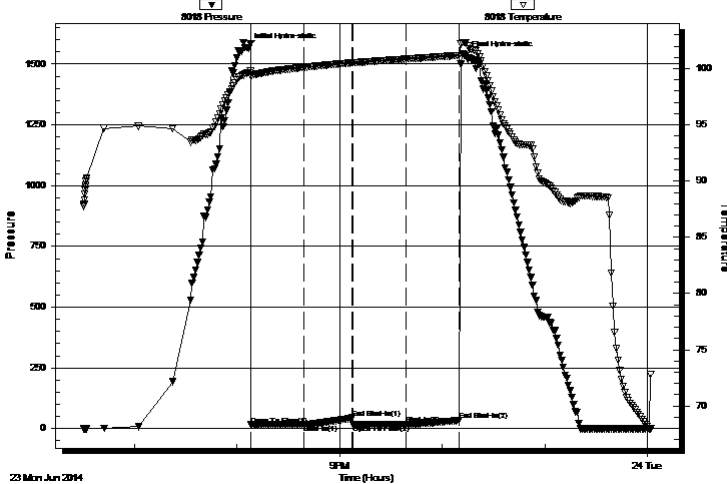
TEST COMMENT: 30-IFP-surface bl , died in 10 min

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
0	1566.79	99.62	Initial Hydro-static
2	15.98	99.32	Open To Flow (1)
33	17.33	100.11	Shut-In(1)
61	44.53	100.52	End Shut-In(1)
62	17.41	100.52	Open To Flow (2)
93	18.01	100.86	Shut-In(2)
124	33.92	101.17	End Shut-In(2)
127	1535.10	102.32	Final Hydro-static

Recovery

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

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59314

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.06.23 @ 18:30:15

GENERAL INFORMATION:

Formation: **LKC H-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:08:10

Time Test Ended: 00:01:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: **3194.00 ft (KB) To 3314.00 ft (KB) (TVD)**

Reference Elevations: 1903.00 ft (KB)

Total Depth: 3314.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8678 Outside

Press@RunDepth: psig @ 3196.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.23

End Date: 2014.06.24

Last Calib.: 2014.06.24

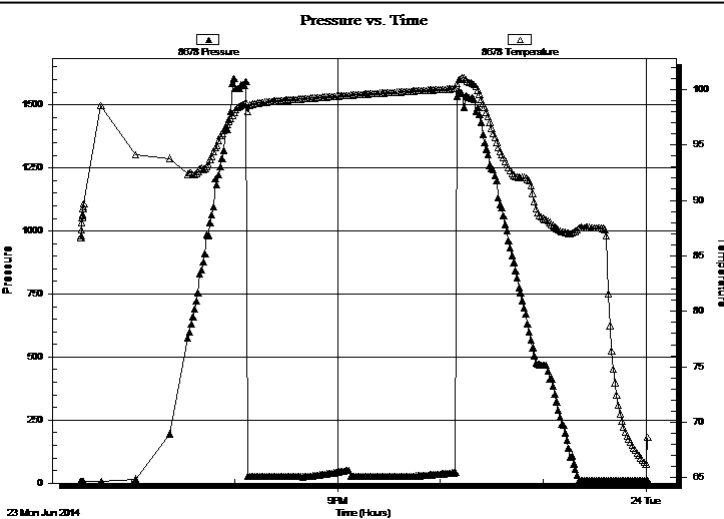
Start Time: 18:30:22

End Time: 00:00:46

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-surface bl, died in 10 min
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)
5.00	Mud	0.02

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

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59314

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.06.23 @ 18:30:15

Tool Information

Drill Pipe:	Length: 3158.00 ft	Diameter: 3.80 inches	Volume: 44.30 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: 65000.00 lb
			<u>Total Volume: 44.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3194.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	120.00 ft			
Tool Length:	141.00 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			3174.00	
Shut In Tool	5.00			3179.00	
Hydraulic tool	5.00			3184.00	
Packer	5.00			3189.00	21.00 Bottom Of Top Packer
Packer	5.00			3194.00	
Stubb	1.00			3195.00	
Perforations	1.00			3196.00	
Recorder	0.00	8018	Inside	3196.00	
Recorder	0.00	8678	Outside	3196.00	
Blank Spacing	95.00			3291.00	
Perforations	20.00			3311.00	
Bullnose	3.00			3314.00	120.00 Bottom Packers & Anchor

Total Tool Length: 141.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59314

DST#: 3

ATTN: Austin Klaus

Test Start: 2014.06.23 @ 18:30:15

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: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

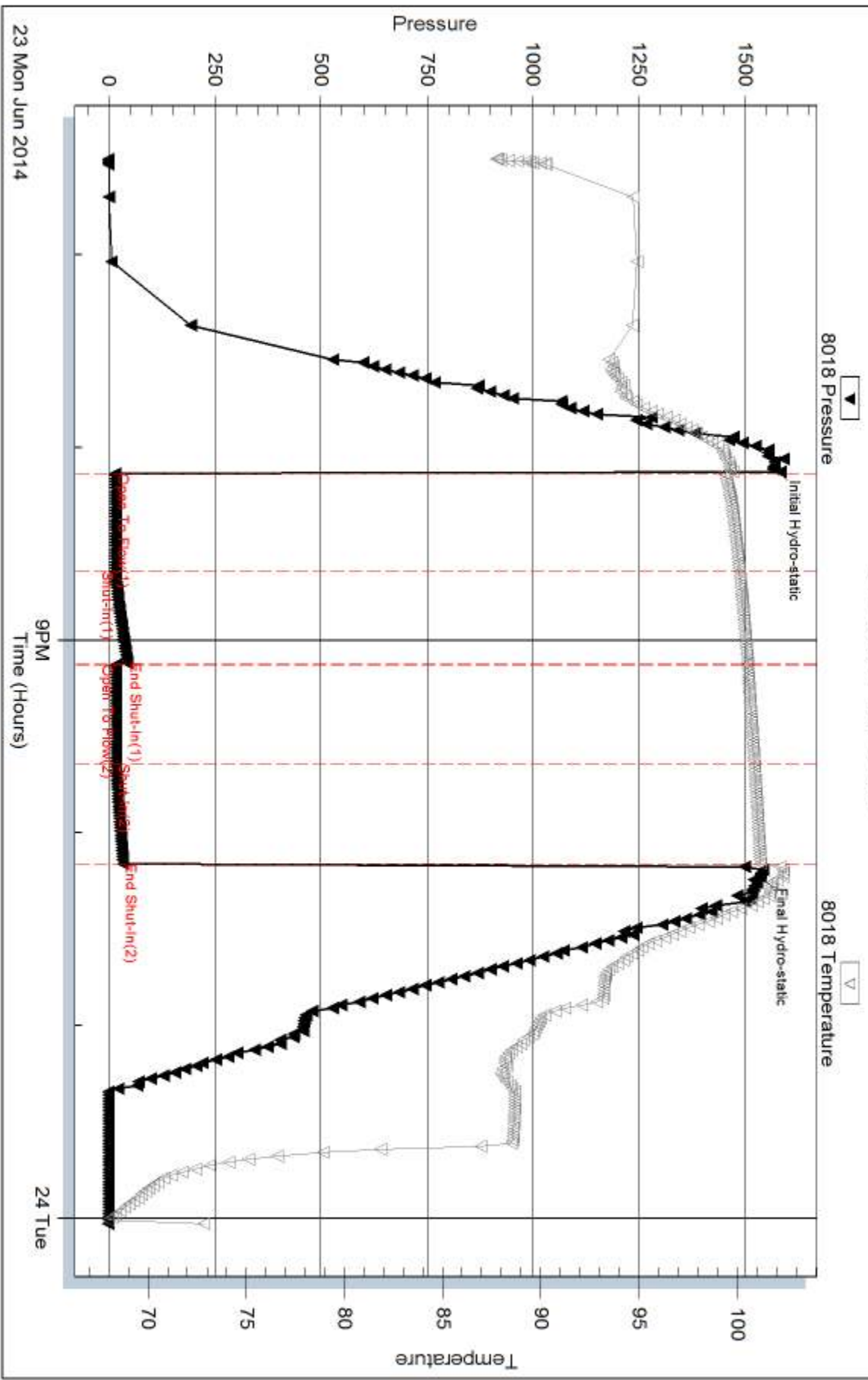
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

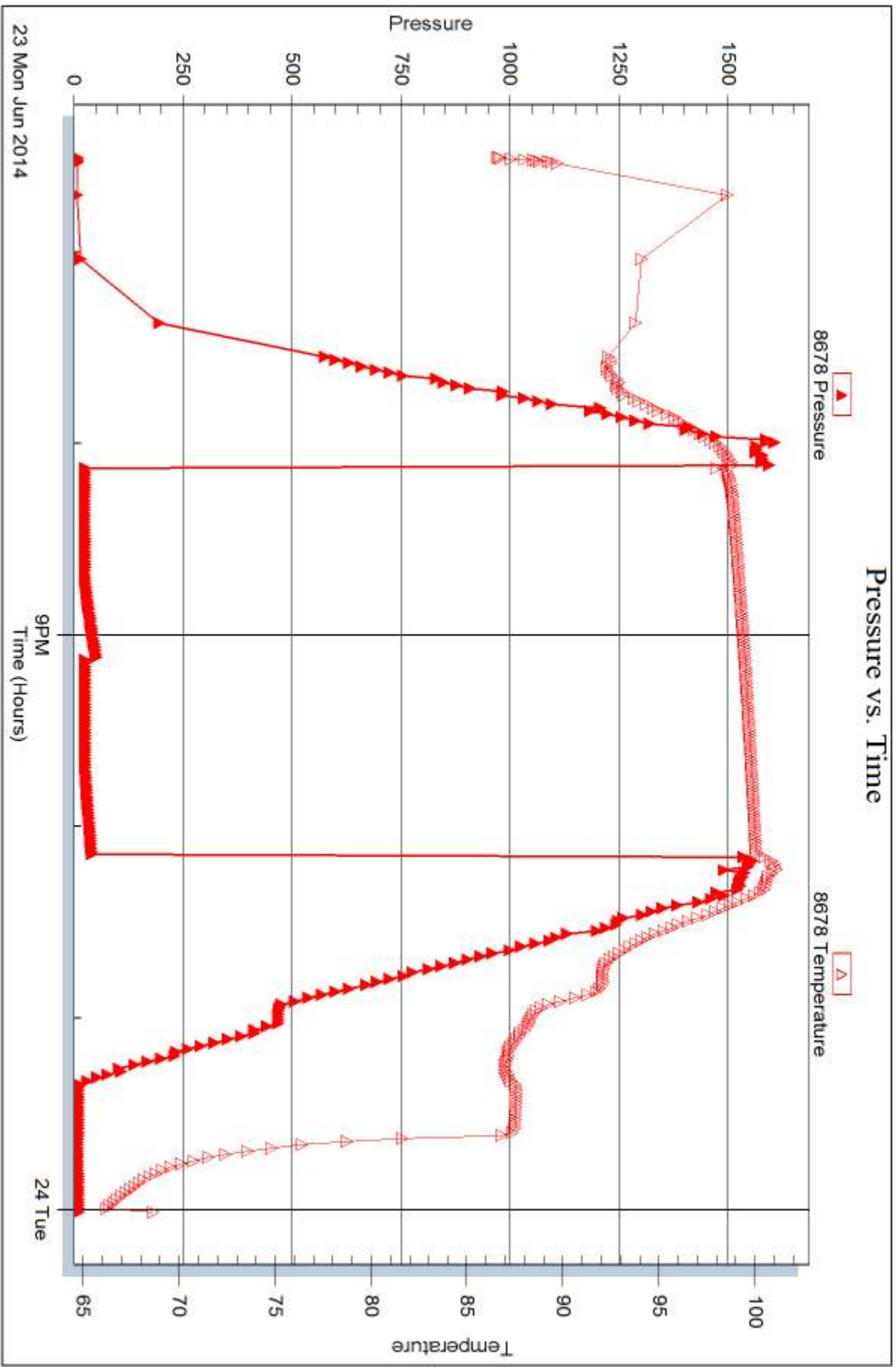


Serial #: 8678

Outside John O Farmer Inc

Johnson D#1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 59314

Printed: 2014.06.26 @ 13:24:46



DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Johnson D #1

35-13s-15w Russell,KS

Start Date: 2014.06.24 @ 11:55:22

End Date: 2014.06.24 @ 18:12:16

Job Ticket #: 59315 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.26 @ 13:24:05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59315

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.06.24 @ 11:55:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:25:47

Time Test Ended: 18:12:16

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3294.00 ft (KB) To 3339.00 ft (KB) (TVD)

Reference Elevations: 1903.00 ft (KB)

Total Depth: 3400.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8018 Inside

Press@RunDepth: 109.03 psig @ 3298.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.24

End Date:

2014.06.24

Last Calib.:

2014.06.24

Start Time: 11:55:22

End Time:

18:12:16

Time On Btm:

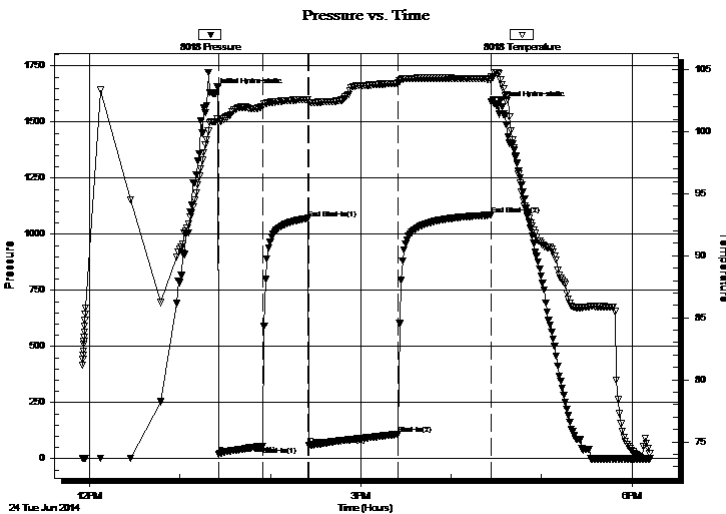
2014.06.24 @ 13:22:17

Time Off Btm:

2014.06.24 @ 16:30:46

TEST COMMENT: 30-IFP-w k to a fr bl 1/4" to 3 1/2" bl
30-ISIP-no bl
60-FFP-w k to a gd bl , surface to 6 1/2" bl
60-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1629.56	100.82	Initial Hydro-static
4	19.32	100.78	Open To Flow (1)
33	56.57	102.02	Shut-In(1)
63	1071.01	102.61	End Shut-In(1)
64	58.79	102.34	Open To Flow (2)
123	109.03	103.92	Shut-In(2)
184	1085.46	104.25	End Shut-In(2)
189	1572.66	104.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	O&WCM 10%O30%W60%M	1.47
62.00	O&WCM 10%O10%W80%M	0.87
15.00	MGO 5%G10%O85%M	0.21
10.00	MGO 5%G65%O30%M	0.14

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

John O Farmer Inc

35-13s-15w Russell, KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59315

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.06.24 @ 11:55:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:25:47

Time Test Ended: 18:12:16

Interval: 3294.00 ft (KB) To 3339.00 ft (KB) (TVD)

Total Depth: 3400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 70

Reference Elevations: 1903.00 ft (KB)

1895.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8678 Outside

Press@RunDepth: psig @ 3298.00 ft (KB)

Start Date: 2014.06.24

End Date:

2014.06.24

Start Time: 11:55:44

End Time:

18:11:38

Capacity: 8000.00 psig

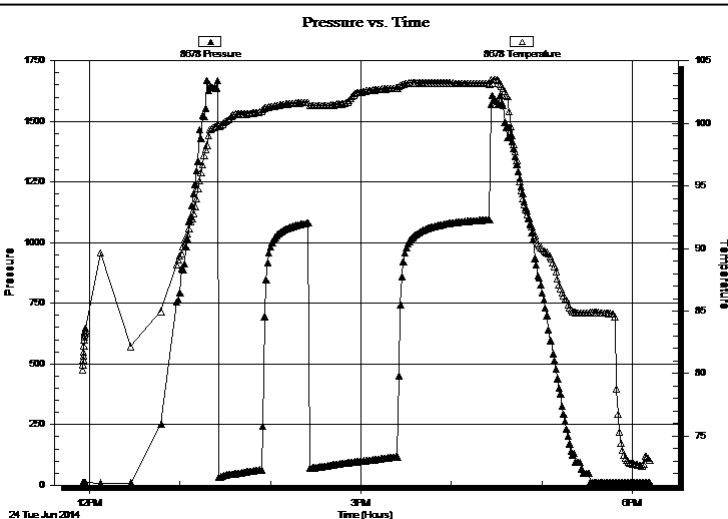
Last Calib.:

2014.06.24

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k to a fr bl 1/4" to 3 1/2" bl
30-ISIP-no bl
60-FFP-w k to a gd bl , surface to 6 1/2" bl
60-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	O&WCM 10%O30%W60%M	1.47
62.00	O&WCM 10%O10%W80%M	0.87
15.00	MGO 5%G10%O85%M	0.21
10.00	MGO 5%G65%O30%M	0.14

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

John O Farmer Inc

35-13s-15w Russell, KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59315

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.06.24 @ 11:55:22

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:25:47

Time Test Ended: 18:12:16

Test Type: Conventional Straddle (Reset)

Tester: Ray Schwager

Unit No: 70

Interval: 3294.00 ft (KB) To 3339.00 ft (KB) (TVD)

Total Depth: 3400.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1903.00 ft (KB)

1895.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8374 Below (Straddle)

Press@RunDepth: psig @ 3368.00 ft (KB)

Start Date: 2014.06.24

End Date:

2014.06.24

Start Time: 11:55:15

End Time:

18:12:39

Capacity: 8000.00 psig

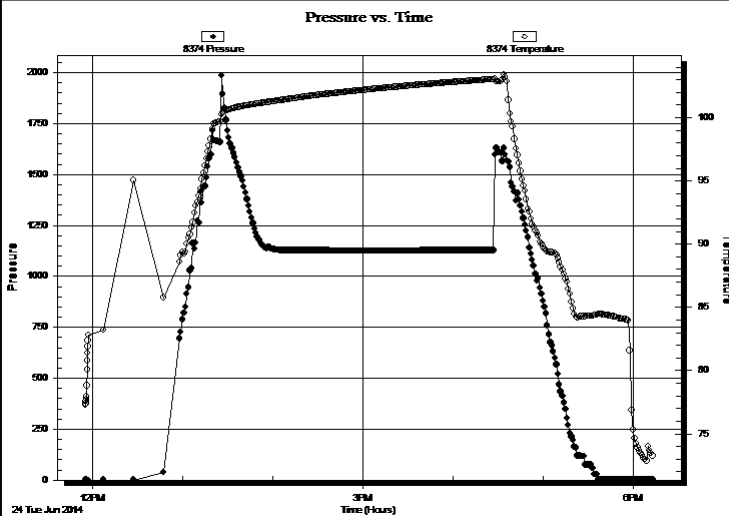
Last Calib.:

2014.06.24

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k to a fr bl 1/4" to 3 1/2" bl
30-ISIP-no bl
60-FFP-w k to a gd bl , surface to 6 1/2" bl
60-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	O&WCM 10%O30%W60%M	1.47
62.00	O&WCM 10%O10%W80%M	0.87
15.00	MGO 5%G10%O85%M	0.21
10.00	MGO 5%G65%O30%M	0.14

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

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59315

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.06.24 @ 11:55:22

Tool Information

Drill Pipe:	Length: 3258.00 ft	Diameter: 3.80 inches	Volume: 45.70 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: 65000.00 lb
			<u>Total Volume: 45.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3294.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	3339.00 ft			
Interval between Packers:	45.00 ft			
Tool Length:	131.00 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			3274.00	
Shut In Tool	5.00			3279.00	
Hydraulic tool	5.00			3284.00	
Packer	5.00			3289.00	21.00 Bottom Of Top Packer
Packer	5.00			3294.00	
Stubb	1.00			3295.00	
Perforations	3.00			3298.00	
Recorder	0.00	8018	Inside	3298.00	
Recorder	0.00	8678	Outside	3298.00	
Blank Spacing	32.00			3330.00	
Perforations	5.00			3335.00	
Blank Off Sub	1.00			3336.00	
Blank Spacing	3.00			3339.00	45.00 Tool Interval
Packer	5.00			3344.00	
Stubb	1.00			3345.00	
Perforations	23.00			3368.00	
Recorder	0.00	8374	Below	3368.00	
Blank Spacing	33.00			3401.00	
Bullnose	3.00			3404.00	65.00 Bottom Packers & Anchor

Total Tool Length: 131.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

35-13s-15w Russell,KS

PO Box 352
Russell KS 67665

Johnson D #1

Job Ticket: 59315

DST#: 4

ATTN: Austin Klaus

Test Start: 2014.06.24 @ 11:55:22

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:

19000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.34 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	O&WCM 10%O30%W60%M	1.466
62.00	O&WCM 10%O10%W80%M	0.870
15.00	MGO 5%G10%O85%M	0.210
10.00	MGO 5%G65%O30%M	0.140

Total Length: 211.00 ft

Total Volume: 2.686 bbl

Num Fluid Samples: 0

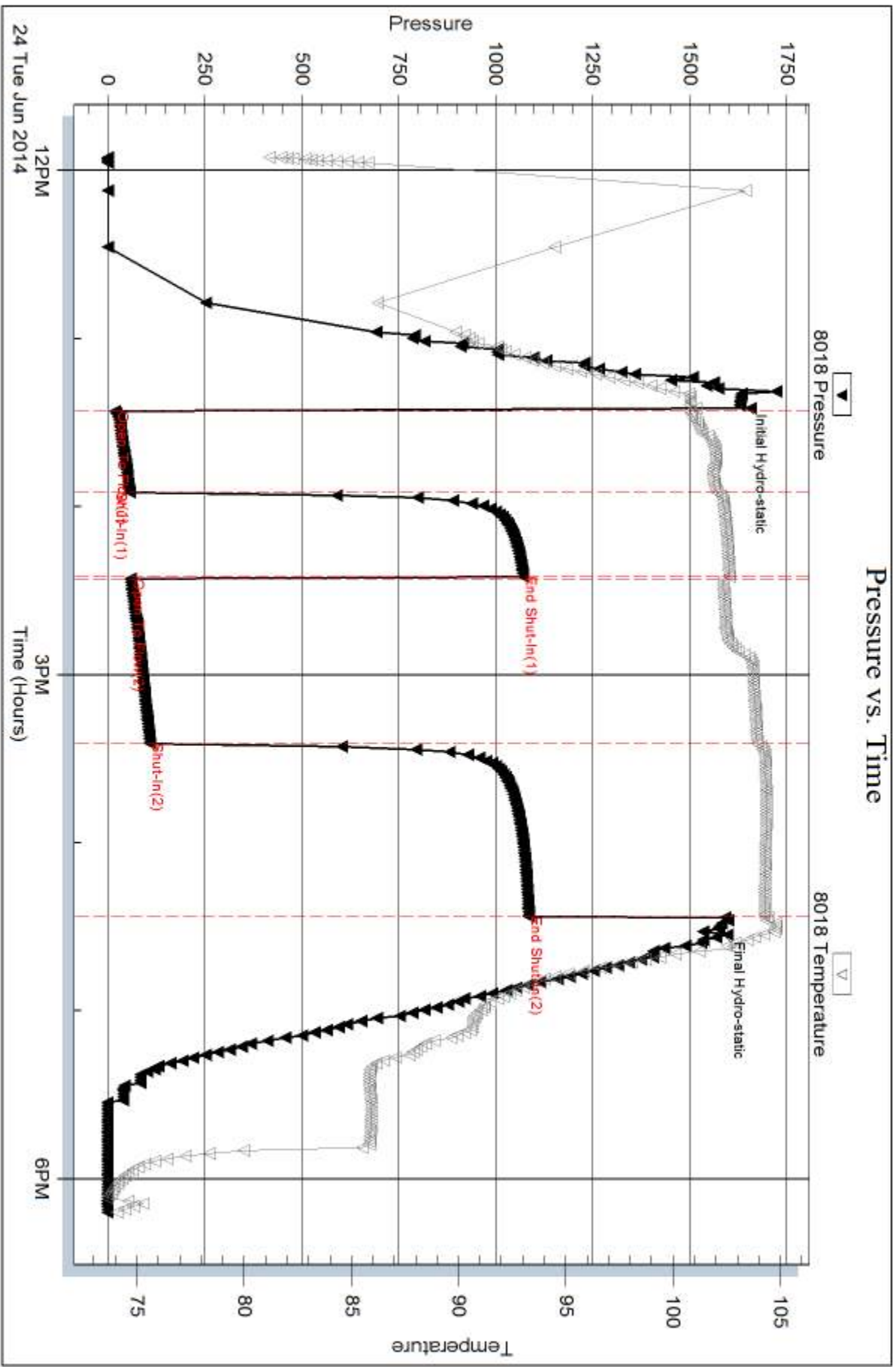
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW >37@69F

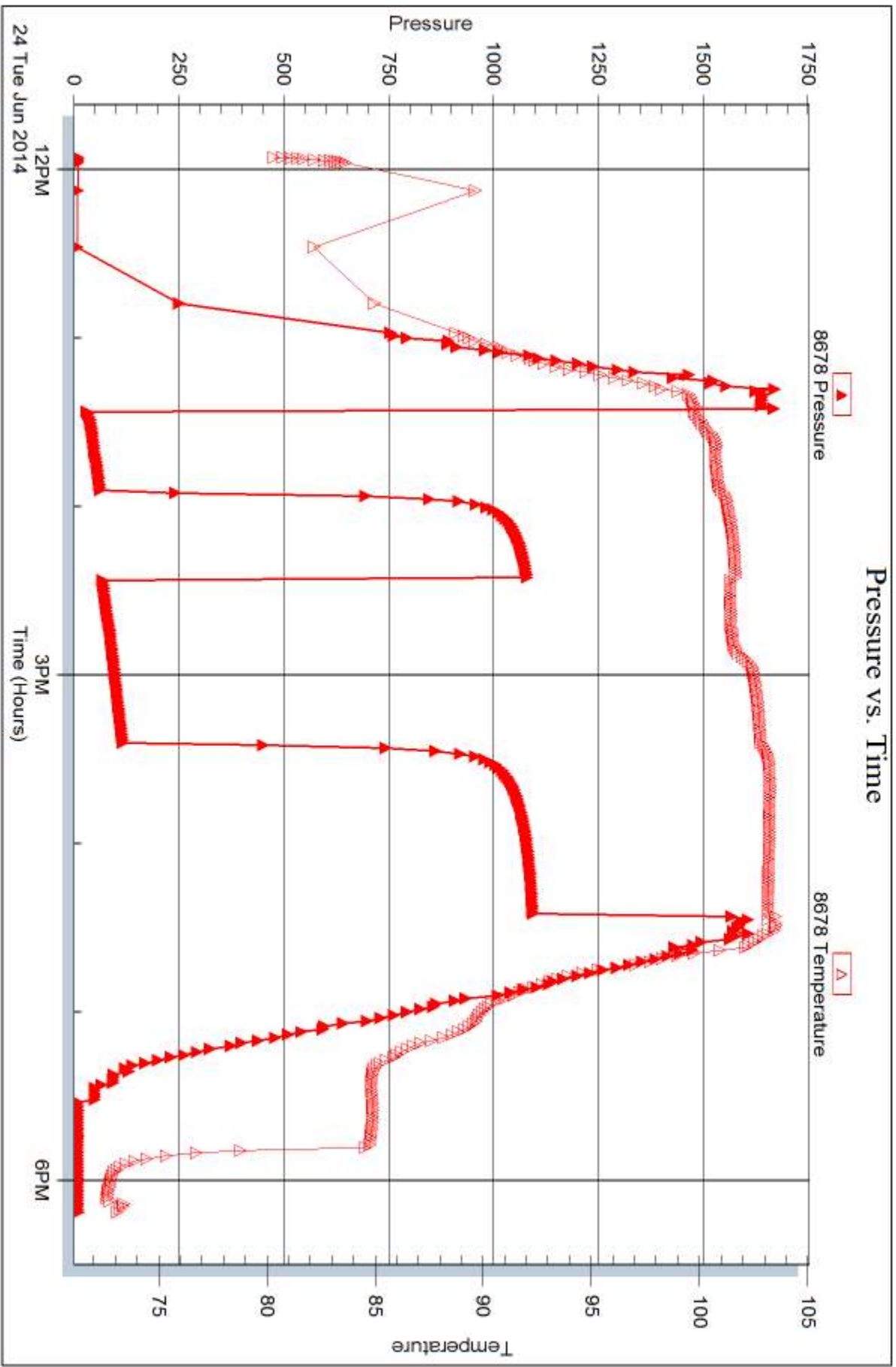


Serial #: 8678

Outside John O Farmer Inc

Johnson D#1

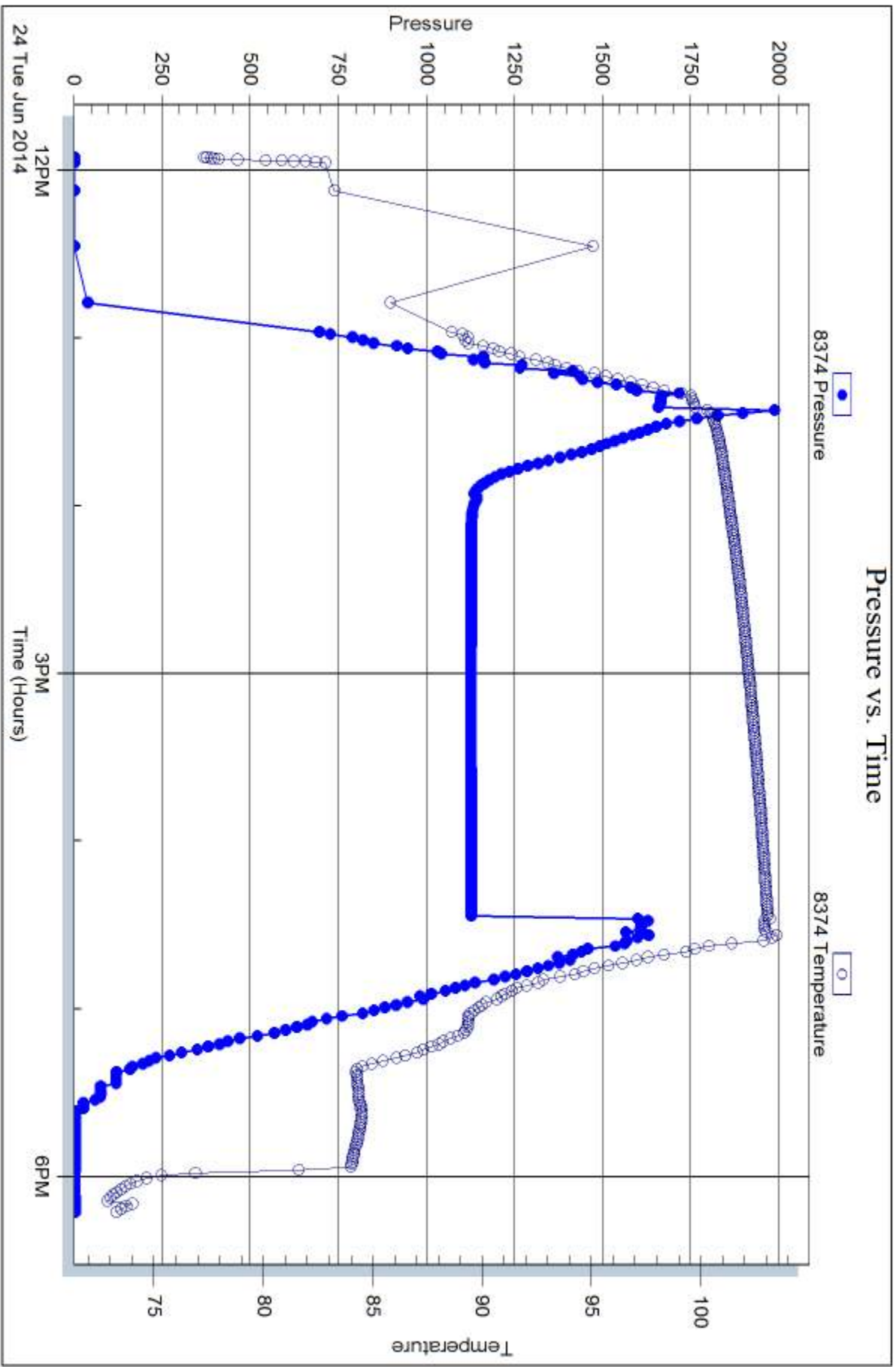
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 59315

Printed: 2014.06.26 @ 13:24:06





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59312

4/10

Well Name & No. Johnson O #1 Test No. 1 Date 6-21-14
 Company John O. Farmer, Inc Elevation 1903 KB 1895 GL
 Address Box 352 Russell, Ko 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery rig 2
 Location: Sec. 35 Twp. 13^s Rge. 15^w Co. Russell State Ko

Interval Tested 3017-3110 Zone Tested Toronto - B
 Anchor Length 93 Drill Pipe Run 2993 Mud Wt. 8.9
 Top Packer Depth 3012 Drill Collars Run 30 Vis 58
 Bottom Packer Depth 3017 Wt. Pipe Run - WL 8.8
 Total Depth 3110 Chlorides 7000 ppm System LCM 2#

Blow Description IFP - SURFACE Blow, died in 10 min
ISTP - NO Blow
FFP - NO Blow
FSIP - NO Blow

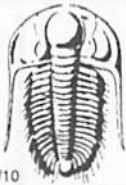
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				

Rec Total 5 BHT 100 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1417</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2245</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars	T-Started <u>0050</u>
(C) First Final Flow <u>24</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0255</u>
(D) Initial Shut-In <u>102</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0455</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0639</u>
(F) Second Final Flow <u>27</u>	<input checked="" type="checkbox"/> Mileage <u>40 RT</u> 62	Comments
(G) Final Shut-In <u>63</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1407</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1212</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1212</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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59313

Well Name & No. Johnson D #1 Test No. 2 Date 6-22-14
 Company John O. Farmer Inc Elevation 1903 KB 1895 GL
 Address PO Box 352 Russell, Ks 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery rig 2
 Location: Sec. 35 Twp. 13^s Rge. 15^w Co. Russell State Ks

Interval Tested 3102-3140 Zone Tested LKC C-D
 Anchor Length 38 Drill Pipe Run 3066 Mud Wt. 9.2
 Top Packer Depth 3097 Drill Collars Run 30 Vis 47
 Bottom Packer Depth 3102 Wt. Pipe Run - WL 11.2
 Total Depth 3140 Chlorides 7000 ppm System LCM 1 1/2 #
 Blow Description IFP - Weak Blow thru-out, surface to 1/8" Blow
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

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

Rec Total 5 BHT 101 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1486 Test 1150 T-On Location 1450
 (B) First Initial Flow 15 Jars - T-Started 1550
 (C) First Final Flow 17 Safety Joint - T-Open 1710
 (D) Initial Shut-In 46 Circ Sub - T-Pulled 1910
 (E) Second Initial Flow 18 Hourly Standby - T-Out 2049
 (F) Second Final Flow 19 Mileage 40RT 62 Comments -
 (G) Final Shut-In 35 Sampler -
 (H) Final Hydrostatic 1467 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 0
 Day Standby - Total 1212
 Accessibility - MP/DST Disc't -

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1212

Approved By _____ Our Representative RAY SCHWAGER Thank you

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59314

Well Name & No. Johnson D #1 Test No. 3 Date 6-23-14
 Company John O. Farmer, Inc Elevation 1903 KB 1895 GL
 Address Po Box 352 Russell, Ko 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery rig 2
 Location: Sec. 35 Twp. 13^s Rge. 15^w Co. Russell State Ko

Interval Tested 3194-3314 Zone Tested Lower LKC
 Anchor Length 120 Drill Pipe Run 3158 Mud Wt. 9.2
 Top Packer Depth 3189 Drill Collars Run 30 Vis 61
 Bottom Packer Depth 3194 Wt. Pipe Run - WL 8
 Total Depth 3314 Chlorides 6000 ppm System LCM 2#

Blow Description IFP - Very Weak Blow, died in 10 min
ISIP - NO Blow
FFP - NO Blow
FSIP - NO Blow

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

Rec Total 5 BHT 101 Gravity - API RW - @ - ° F Chlorides - ppm
 (A) Initial Hydrostatic 1566 Test 1150 T-On Location 1715
 (B) First Initial Flow 15 Jars _____ T-Started 1830
 (C) First Final Flow 17 Safety Joint _____ T-Open 2005
 (D) Initial Shut-In 44 Circ Sub _____ T-Pulled 2205
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 0001
 (F) Second Final Flow 18 Mileage 40 RT 62 Comments _____
 (G) Final Shut-In 33 Sampler _____
 (H) Final Hydrostatic 1535 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1212
 Accessibility _____ MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1212

Approved By _____ Our Representative RAY SCHWAGER *thru 504*

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59315

Well Name & No. Johnson 0#1 Test No. 4 Date 6-24-14
 Company John O. Farmer Inc Elevation 1903 KB 1895 GL
 Address PO Box 352 Russell, Ks 67665
 Co. Rep / Geo. Austin Klaus Rig Discovery rig 2
 Location: Sec. 35 Twp. 13^s Rge. 15^w Co. Russell State Ks

Interval Tested 3294-3339 Zone Tested Arbuckle
 Anchor Length 45 Drill Pipe Run 3258 Mud Wt. 9.2
 Top Packer Depth 3294-3289 Drill Collars Run 30 Vis 59
 Bottom Packer Depth 3339 Wt. Pipe Run — WL 8.4
 Total Depth 3400 Chlorides 6000 ppm System LCM 2 1/2#
 Blow Description IFP - WEAK TO A FAIR BLOW, 1/4" TO 3 1/2" BLOW
ISIP - NO BLOW
FFP - WEAK TO A GOOD BLOW, SURFACE TO 6 1/2" BLOW
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MGO</u>	<u>5</u>	<u>65</u>	<u>—</u>	<u>30</u>
<u>15</u>	<u>MGO + GCM</u>	<u>5</u>	<u>10</u>	<u>—</u>	<u>85</u>
<u>62</u>	<u>O + WCM</u>	<u>—</u>	<u>10</u>	<u>10</u>	<u>80</u>
<u>124</u>	<u>O + WCM</u>	<u>—</u>	<u>10</u>	<u>30</u>	<u>60</u>

Rec Total 211 BHT 104 Gravity — API RW 33 @ 69 °F Chlorides 18000 ppm

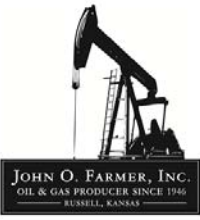
(A) Initial Hydrostatic 1629 Test 1150 T-On Location 1130
 (B) First Initial Flow 19 Jars — T-Started 1155
 (C) First Final Flow 56 Safety Joint — T-Open 1325
 (D) Initial Shut-In 1071 Circ Sub — T-Pulled 1625
 (E) Second Initial Flow 58 Hourly Standby — T-Out 1812
 (F) Second Final Flow 109 Mileage 40RT 62 Comments —
 (G) Final Shut-In 1085 Sampler —
 (H) Final Hydrostatic 1572 Straddle 600 Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1812
 Accessibility — MP/DST Disc't —
 Sub Total 1812

Approved By _____

Our Representative RAY SCHWAGN

Thank you

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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: Johnson D #1
Location: Russell County
License Number: API #15-167-23978-00-00
Spud Date: 6/18/14
Surface Coordinates: Section 35 - Township 13 South - Range 15 West
2,470' FSL & 1,145' FWL
Bottom Hole Coordinates: Vertical well with minimal deviation, same as above
Ground Elevation (ft): 1,895' **K.B. Elevation (ft):** 1,903'
Logged Interval (ft): 2,500' **To:** RTD **Total Depth (ft):** 3,400'
Formation: LKC, Arbuckle
Type of Drilling Fluid: Chemical (Andy's)

Region: Kansas
Drilling Completed: 6/24/14

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

OPERATOR

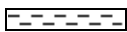

Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665-0352

Comments


















The Johnson D #1 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Terry Wickham).

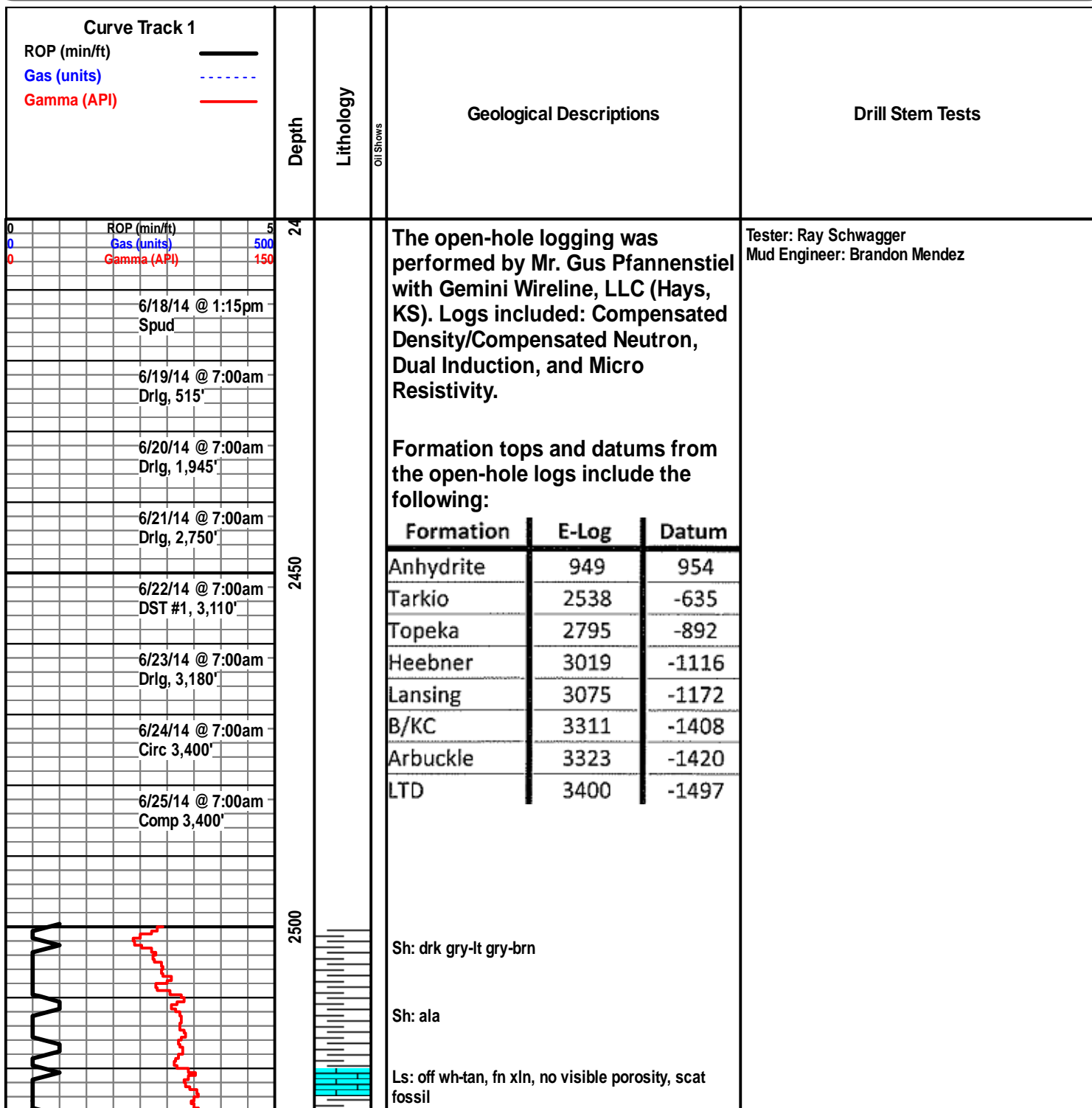
The location for the Johnson D #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 2,500'-3,400'. Structurally, the Johnson D #1 ran 2' low to our correlation well at the Lansing. Three bottom-hole tests were conducted in the Lansing, all yielding negative results. The Arbuckle horizon was 1' high to the Johnson #1 comparison well, 1,500' southeast of our location. Upon completion of the logging operation, a straddle test was conducted, covering the top 16' of the Arbuckle. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to plug and abandon the Johnson D #1 well on 6/25/14.

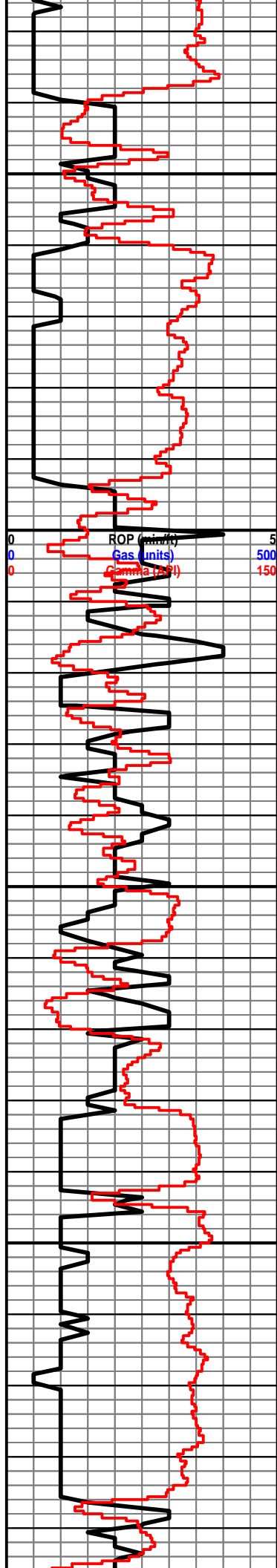
ROCK TYPES

 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  Sltst  Ss  Till
--	--	--	--	--

OTHER SYMBOLS

POROSITY  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint	<input checked="" type="checkbox"/> Vuggy SORTING  Well  Moderate  Poor	ROUNDING  Rounded  Subrnd  Subang  Angular OIL SHOW  Even	<input type="checkbox"/> Spotted <input type="checkbox"/> Ques <input type="checkbox"/> Dead INTERVAL <input type="checkbox"/> Core <input type="checkbox"/> Dst	EVENT  Rft  Sidewall
---	---	--	--	---





Sh: drk gry

Tarkio 2538' (-635)

Ls: off wh-tan, fn xln, mostly DNS, scat sh: drk gry, soft

Ss: lt gry, fn-vry fn grn, mostly rnd, well sorted, poorly cemented, scat oil st, NSFO, scat sh: drk gry

Sh: drk gry

Ls: lt gry, fn-sub xln, mostly DNS, no visible porosity, NSFO

Sh: drk gry-lt gry

Ls: tan-brn, fn xln, mostly DNS, scat chalky

Ls: gry, fn xln, mostly DNS, scat fossil, NSFO

Sh: drk gry-brn

Ls: tan-buff, fn xln, no visible porosity

Ls: ala

Sh: lt gry-drk gry

Ls: tan-lt gry, fn-sub xln, no visible porosity, scat fossil, chert-off wh

Ls: buff, fn xln, scat int xln porosity, NSFO, scat fossil

Sh: lt gry-brn

Ls: drk gry-brn, fn xln, scat int part porosity, NSFO, scat chert-off wh

Sh: lt gry-drk gry

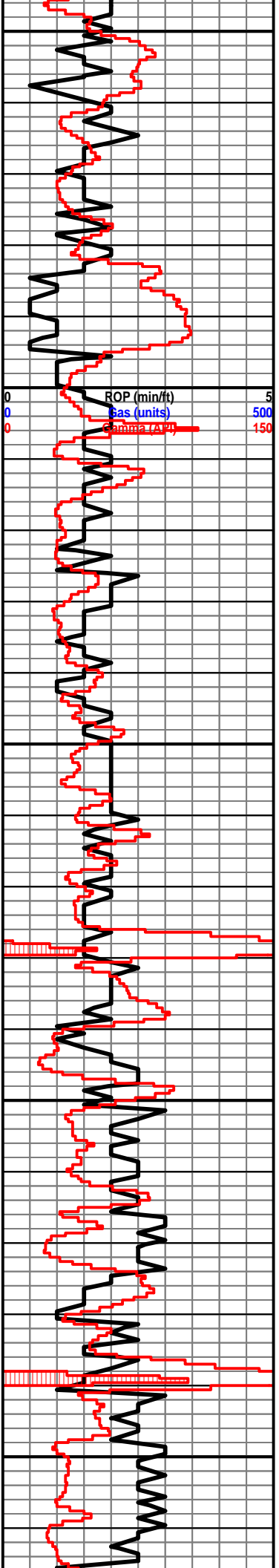
Sh: ala

Ls: tan-brn, fn-sub xln, no visible porosity, NSFO, chalky

Ls: ala

Sh: lt gry-brn-grn

Wt: 8.7
Vis: 50



Ls: buff, fn xln, fossil

Ls: ala

Sh: lt gry-drk gry

Sh: drk gry-brn

Topeka 2795' (-892)

Ls: buff-tan, fn xln, scat fossil, no visible porosity

Sh: drk gry

Sh: ala

Ls: off wh-tan, fn xln, scat int xln porosity, scat oil st, NSFO, no odor, scat fossil

Sh: lt gry-drk gry

Ls: tan-gry, fn xln, scat fossil, poor int part porosity, NSFO

Ls: ala

Sh: drk gry-blk

Sh: lt gry

Ls: tan-gry, fn-sub xln, mostly DNS, NSFO, scat chert-off wh

Sh: drk gry

Ls: tan-lt gry, fn-sub xln, mostly DNS, scat fossil, NSFO

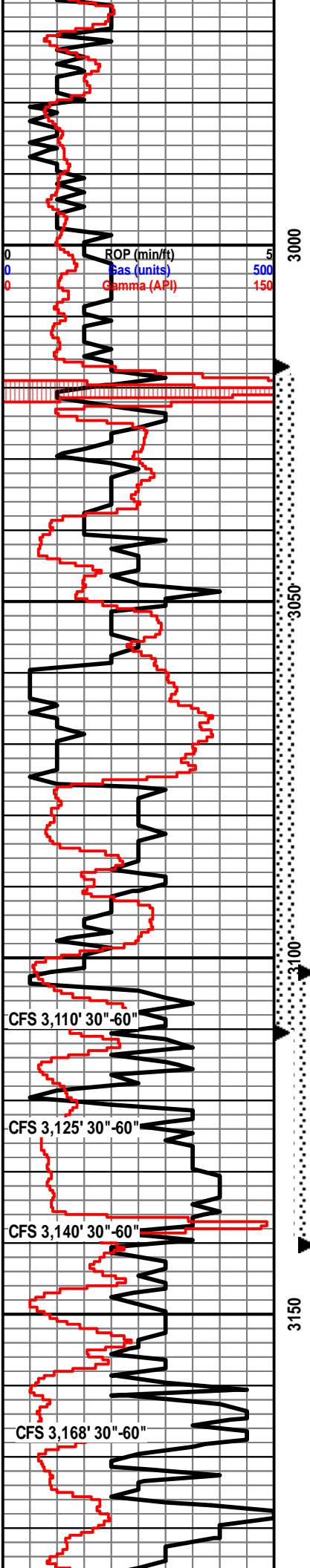
Ls: buff-lt brn, fn xln, scat int part porosity, scat oil st, NSFO, fossil, chert-off wh

Ls: tan-lt gry, fn-sub xln, mostly DNS

Sh: drk gry-blk

Ls: tan-lt gry, fn xln, fossil, scat int part porosity, scat oil st, SSFO, sl odor, scat chalky

Ls: buff-lt gry, fn xln, mostly DNS, no visible porosity, NSFO, scat chert-off wh



Sh: drk gry

Ls: tan-lt gry, fn xln, scat fossil, no visible porosity, NSFO

Ls: off wh-tan, fn xln, poor-fair int xln porosity, fair oil st, SSFO, sl odor, scat chert-off wh

Sh: drk gry-brn

Ls: tan-lt gry, fn-sub xln, mostly DNS

Heebner 3019' (-1116)

Sh: drk gry-blk, carb, fissile

Ls: tan-gry, fn-sub xln, mostly DNS

Sh: drk gry-brn

Toronto 3039' (-1136)

Ls: off wh-tan, fn xln, scat int xln porosity, fair oil st in porosity, SSFO, sl odor, tite

Ls: tan-brn, fn-sub xln, fossil, mostly DNS, NSFO

Sh: drk gry

Sh: drk gry-brn

Sh: ala

Lansing 3075' (-1172')

Ls: off wh, fn xln, scat int xln porosity, scat oil st, NSFO, scat chalk

Ls: ala

Sh: drk gry-brn-grn

Ls: off wh-tan, fn xln, poor-fair int xln porosity, fair oil sat in porosity, SSFO, sl odor, scat chert-off wh

CFS 3,110' 30"-60"

Sh: drk gry-brn-rd

Ls: off wh-tan, fn xln, ool, poor oom porosity, sl-fair oil sat, SSFO, sl odor, chalky

CFS 3,125' 30"-60"

Ls: off wh, fn xln, scat fossil, no visible porosity, NSFO, no odor, scat chert-off wh

CFS 3,140' 30"-60"

Sh: drk gry

Ls: tan-off wh, fn xln, fossil, scat int fossil porosity, no oil st, NSFO

3150

Ls: off wh-tan, fn xln, fossil, poor-fair int xln porosity, vry lt oil st, NSFO, no odor, chalky

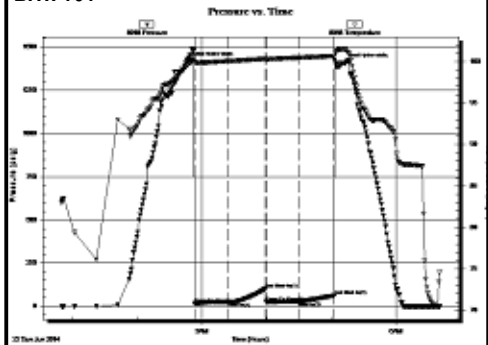
CFS 3,168' 30"-60"

Sh: lt gry-drk gry

Ls: off wh-tan, fn xln, fossil, scat fossil and vuggy porosity, NSFO, no odor, chalky, scat chert-off wh

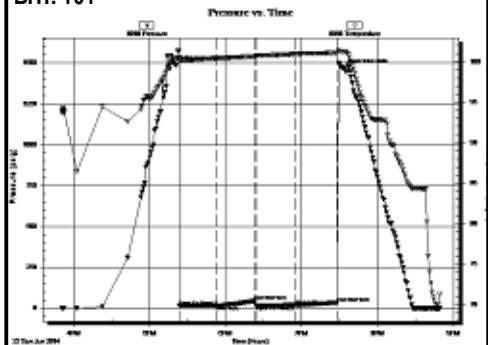
DST #1 3,017-3,110' (Toronto-LKC B)
30"-30"-30"-30"

IF: weak surface blow died in 10 minutes
FF: no blow
Rec: 5' Mud
FP: 17-25, 26-28#
SIP: 103-63#
HP: 1,417-1,408#
BHT: 101

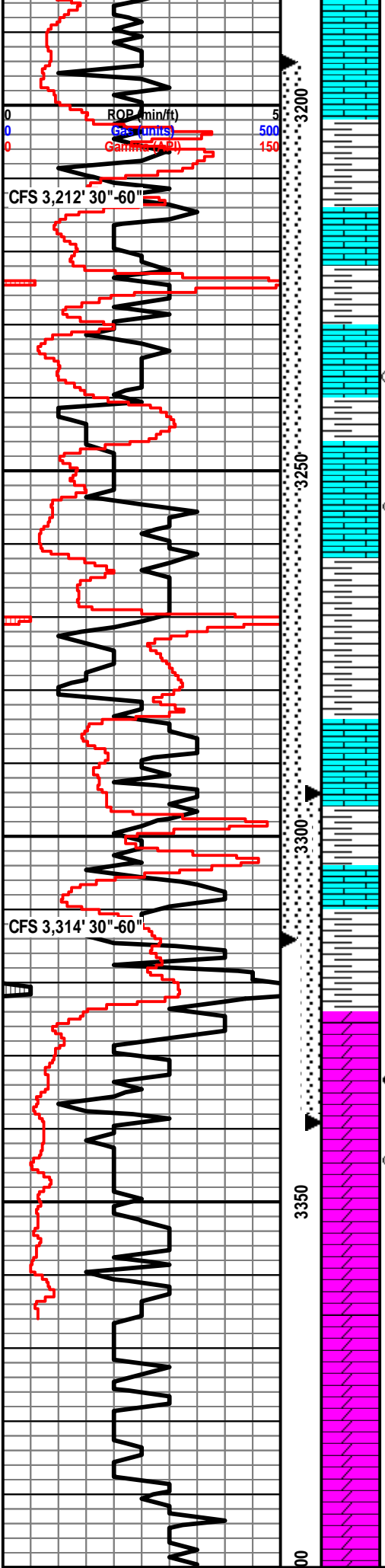


DST #2 3,102-3,140' (LKC C-D)
30"-30"-30"-30"

IF: weak surface blow built to 1/8"
FF: no blow
Rec: 5' Mud
FP: 16-18, 18-20#
SIP: 47-35#
HP: 1,486-1,467#
BHT: 101



Wt: 9.2
Vis: 47



Ls: off wh-tan, fn xln, poor int xln and vuggy porosity, lt oil st, NSFO, no odor, hvy chert-off wh

Sh: drk gry

Ls: tan-lt gry, fn xln, mostly DNS, no visible porosity, hvy chert-off wh, sl chalky, NSFO, no odor

Sh: drk gry-brn-grn

Ls: off wh, fn xln, ool, poor oolitic porosity, sl-fair oil st, SSFO, sl odor, scat fossil, chalky

Ls: off wh-tan, fn xln, scat fossil, poor int xln and ool porosity, fair oil st, SSFO, sl odor, chalky

Sh: drk gry-blk

Sh: drk gry-drk brn-rd

Ls: off wh-tan, fn xln, ool, scat ool porosity, fair oil st in porosity, SSFO, sl odor, chalky

Sh: drk gry

B/KC 3311' (-1408)

Ls: tan-lt gry, fn xln, vry DNS, no visible porosity, scat sh: drk gry

Sh: drk gry-brn-grn

Arbuckle 3327' (-1424)

Dolo: off wh-tan, fn xln, poor sucrosic xln porosity, FSFO, fair odor

Dolo: off wh, fn-md xln, fair sucrosic xln porosity, fair-good oil sat, GSFO, good odor, fair yel fluor

Dolo: off wh-lt brn, fn-md xln, fair int xln porosity, fair oil sat, SSFO, fair-good odor, lt yel fluor

Dolo: off wh, md xln, fair int xln porosity, lt-fair oil sat, SSFO, fair odor

Dolo: ala

Sh: drk gry

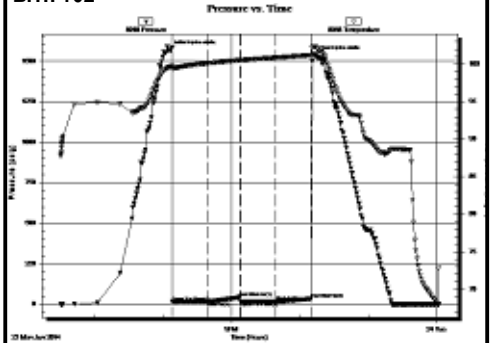
Dolo: off wh-lt brn, md xln, poor int xln porosity, SSFO, sl odor

Dolo: off wh-lt tan, fn-md xln, poor int xln porosity, mostly barren

Wt: 9.1
Vis: 49

DST #3 3,194-3,314' (LKC H-L)
30"-30"-30"-30"

IF: weak surface blow died in 10 minutes
FF: no blow
Rec: 5' Mud
FP: 16-17, 17-18#
SIP: 45-34#
HP: 1,567-1,535#
BHT: 102



DST #4 3,294-3,139' (Top 16' of Arbuckle)
30"-30"-60"-60"

IF: weak blow built to 3.5", no blow back on shut in
FF: weak blow built to 6.5", no blow back on shut in
Rec: 10' MGO (5% G, 30% M, 65% O), 15' G&OCM (5%G, 10%O, 85%M), 62' O&WCM (10%O, 10%W, 80%M), 124' O&WCM (10%O, 30%W, 60%M)
FP: 19-57, 59-109#
SIP: 1,071-1,085#
HP: 1,630-1,573#
BHT: 105

