Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1190482

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 # 5135
Name: Farmer, John O., Inc.
Address 1: 370 W WICHITA AVE
Address 2: PO BOX 352
City: RUSSELL State: KS Zip: 67665 + 2635
Contact Person: Marge Schulte
Phone: (785) 483-3144
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: Austin Klaus
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 #:

10/29/2013	11/03/2013	11/04/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-147-20725-00-00
Spot Description: SW NW NE SE
SW NW NE SE Sec. 27 Twp. 1 S. R. 18 ☐ East ☑ West
2060 Feet from ☐ North / ☑ South Line of Section
1190 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Phillips
Lease Name: Johnson C Well #: 1
Field Name: Huffstutter
Producing Formation: None
Elevation: Ground: 2143 Kelly Bushing: 2151
Total Vertical Depth: 3650 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 221 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: 29000 ppm Fluid volume: 700 bbls
Dewatering method used: Evaporated

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: 02/21/2014
☑ **Confidential Release Date:** 02/21/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 02/24/2014

[redacted] 1190482

Operator Name: Farmer, John O., Inc. Lease Name: Johnson C Well #: 1

Sec. 27 Twp. 1 S. R. 18 ☐ East ☑ West County: Phillips

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Micro Resistivity Log
Compensated Neutron Density Log
Dual Induction Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	1730'	(+421)
Topeka	3088'	(-937)
Heebner	3310'	(-1159)
Toronto	3338'	(-1187)
Lansing	3356'	(-1205)
Base/KC	3579'	(-1428)
L.T.D.	3646'	(-1495)

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	221	Common	150	3% C.C., 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Johnson C 1
Doc ID	1190482

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	221	Common	150	3% C.C., 2% gel

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Johnson "C" #1

27-1s-18w Phillips,KS

Start Date: 2013.11.02 @ 07:50:00
End Date: 2013.11.02 @ 14:05:30
Job Ticket #: 54875 DST #: 1

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

Printed: 2013.11.13 @ 10:58:50

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

27-1s-18w Phillips,KS

Johnson "C" #1

Job Ticket: 54875 **DST#: 1**

Test Start: 2013.11.02 @ 07:50:00

GENERAL INFORMATION:

Formation: **LKC " C-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:17:30
Time Test Ended: 14:05:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Bob Hamel
Unit No: 66

Interval: 3374.00 ft (KB) To 3422.00 ft (KB) (TVD)
Total Depth: 3422.00 ft (KB) (TVD)
Hole Diameter: inches Hole Condition: Good

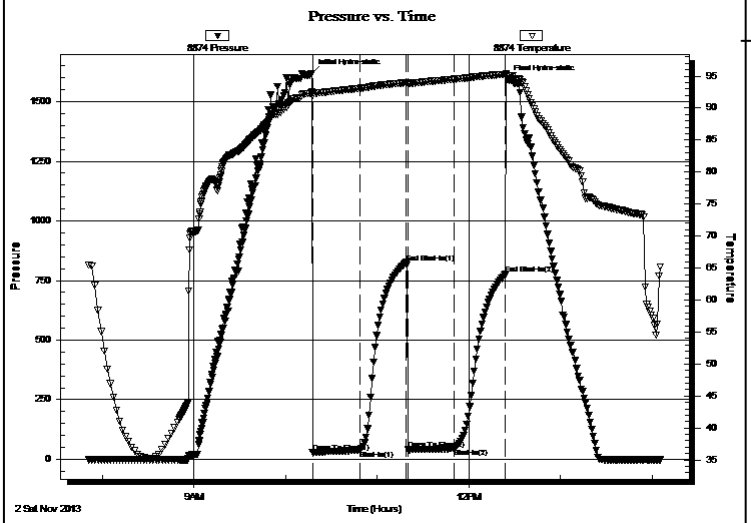
Reference Elevations: 2151.00 ft (KB)
2143.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 45.29 psig @ 3410.00 ft (KB)
Start Date: 2013.11.02 End Date: 2013.11.02
Start Time: 07:51:00 End Time: 14:05:30

Capacity: 8000.00 psig
Last Calib.: 2013.11.02
Time On Btm: 2013.11.02 @ 10:17:00
Time Off Btm: 2013.11.02 @ 12:25:00

TEST COMMENT: I.F. - 30 - Weak surface blow died in 2 min
I.S.I. - 30 - No blow back
F.F. - 30 - No blow
F.S.I. - 30 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1617.39	92.52	Initial Hydro-static
1	28.41	92.01	Open To Flow (1)
32	37.78	93.10	Shut-In(1)
62	825.46	93.99	End Shut-In(1)
63	39.53	93.80	Open To Flow (2)
93	45.29	94.52	Shut-In(2)
127	775.46	95.30	End Shut-In(2)
128	1594.64	95.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 2%OIL 98%MUD	0.05

Gas Rates

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

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

27-1s-18w Phillips,KS

Johnson "C" #1

Job Ticket: 54875 **DST#: 1**

Test Start: 2013.11.02 @ 07:50:00

GENERAL INFORMATION:

Formation: **LKC " C-D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:17:30
Time Test Ended: 14:05:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Bob Hamel
Unit No: 66

Interval: 3374.00 ft (KB) To 3422.00 ft (KB) (TVD)
Total Depth: 3422.00 ft (KB) (TVD)
Hole Diameter: inches Hole Condition: Good

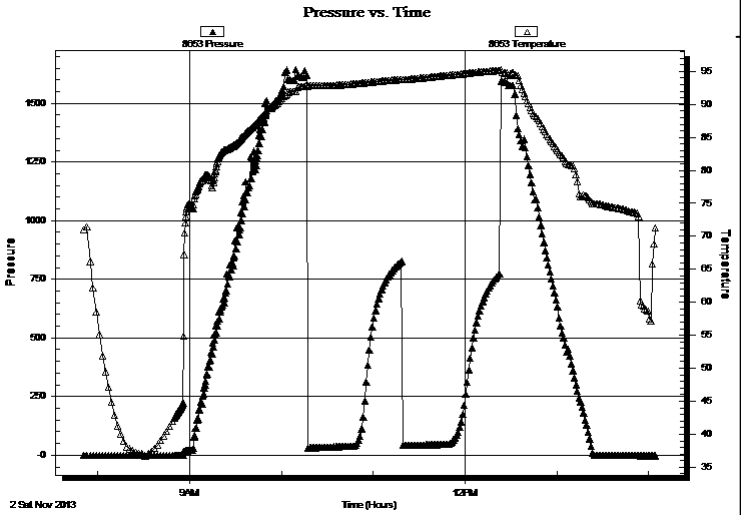
Reference Elevations: 2151.00 ft (KB)
2143.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8653 **Outside**

Press@RunDepth: psig @ 3410.00 ft (KB)
Start Date: 2013.11.02 End Date: 2013.11.02
Start Time: 07:51:00 End Time: 14:04:30

Capacity: 8000.00 psig
Last Calib.: 2013.11.02
Time On Btm:
Time Off Btm:

TEST COMMENT: I.F. - 30 - Weak surface blow died in 2 min
I.S.I. - 30 - No blow back
F.F. - 30 - No blow
F.S.I. - 30 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 2%OIL 98%MUD	0.05

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

27-1s-18w Phillips,KS

Johnson "C" #1

Job Ticket: 54875 **DST#: 1**

Test Start: 2013.11.02 @ 07:50:00

Tool Information

Drill Pipe:	Length:	3261.00 ft	Diameter:	3.80 inches	Volume:	45.74 bbl	Tool Weight:		2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	123.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:		64000.00 lb
					Total Volume:	46.34 bbl	Tool Chased		5.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	60000.00 lb
Depth to Top Packer:		3374.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		48.00 ft							
Tool Length:		68.00 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			3355.00		
Shut In Tool	5.00			3360.00		
Hydraulic tool	5.00			3365.00		
Packer	5.00			3370.00	20.00	Bottom Of Top Packer
Packer	4.00			3374.00		
Stubb	1.00			3375.00		
Perforations	2.00			3377.00		
Change Over Sub	1.00			3378.00		
Drill Pipe	31.00			3409.00		
Change Over Sub	1.00			3410.00		
Recorder	0.00	8653	Outside	3410.00		
Recorder	0.00	8874	Inside	3410.00		
Perforations	7.00			3417.00		
Bullnose	5.00			3422.00	48.00	Bottom Packers & Anchor
Total Tool Length:	**68.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

27-1s-18w Phillips,KS

Johnson "C" #1

Job Ticket: 54875 **DST#: 1**

Test Start: 2013.11.02 @ 07:50:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	400.00 ppm				
Filter Cake:	inches				

Recovery Information

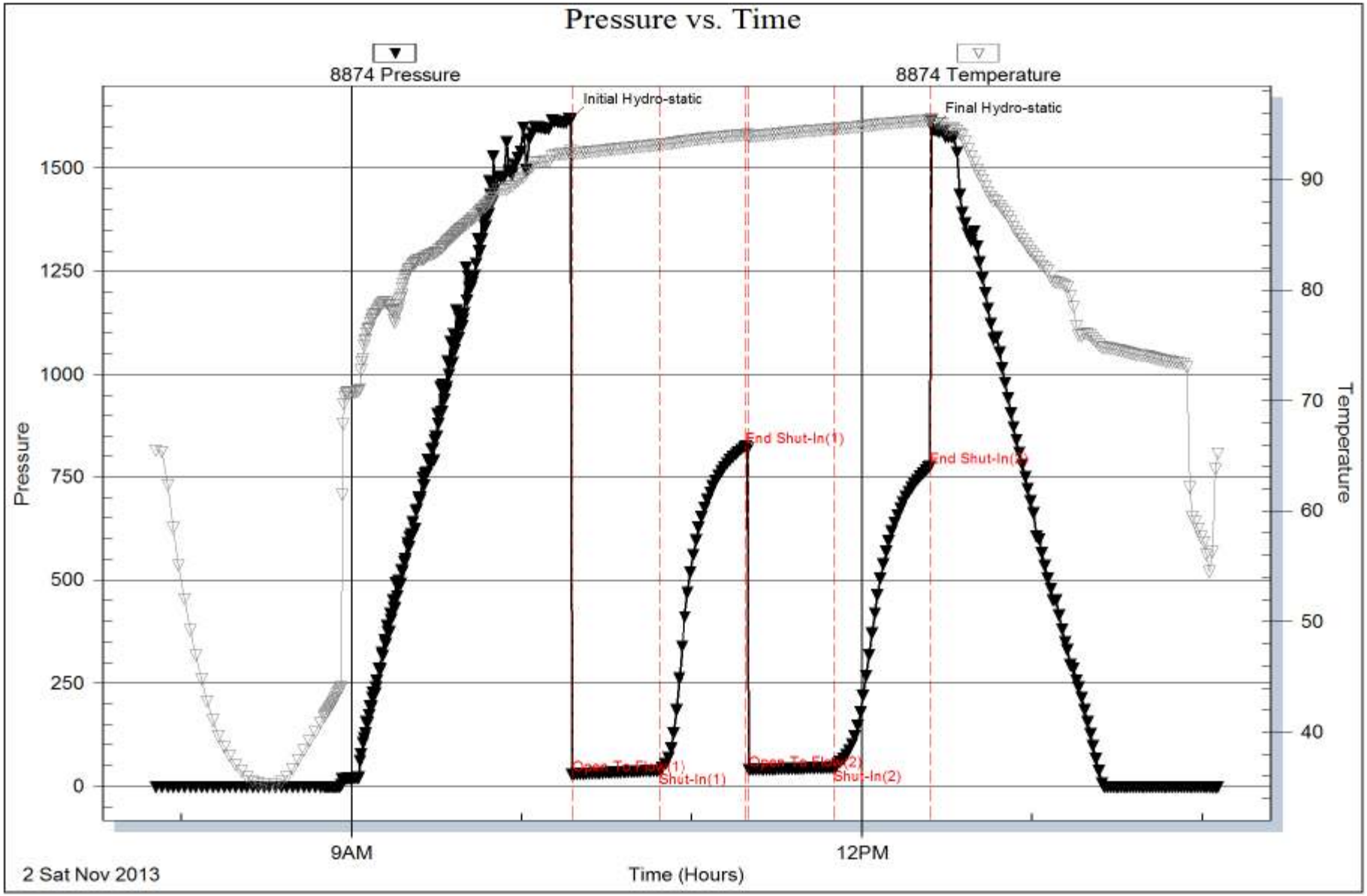
Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 2%OIL 98%MUD	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

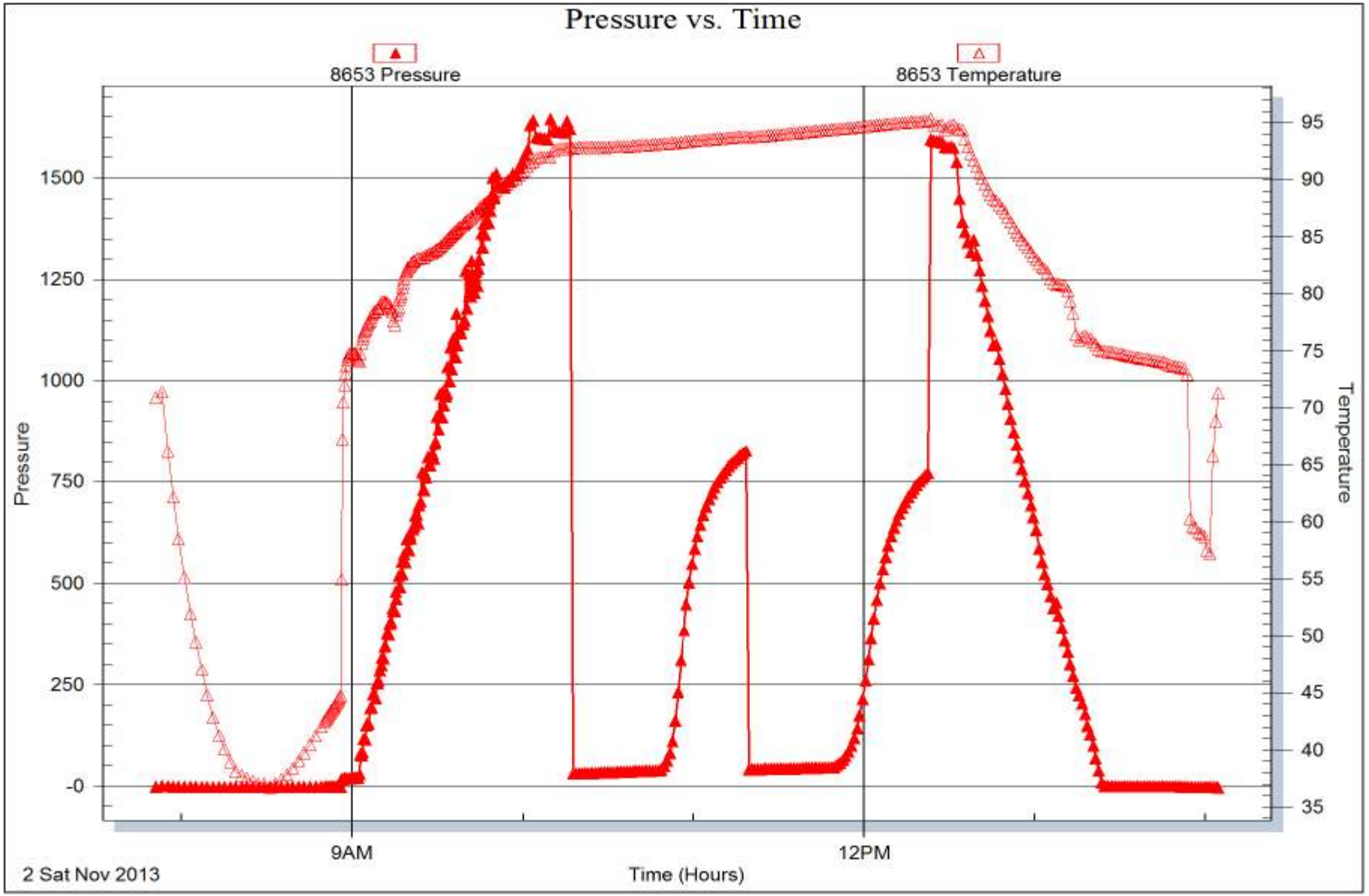
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8874 **Inside** John O Farmer Johnson "C" #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 54875 Printed: 2013.11.13 @ 10:58:51

Serial #: 8653 **Outside** John O Farmer Johnson "C" #1 DST Test Number: 1



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Johnson "C" #1

27-1s-18w Phillips,KS

Start Date: 2013.11.03 @ 06:40:00
End Date: 2013.11.03 @ 15:28:00
Job Ticket #: 55851 DST #: 2

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

Printed: 2013.11.13 @ 10:58:14

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

27-1s-18w Phillips,KS

Johnson "C" #1

Job Ticket: 55851 **DST#: 2**

Test Start: 2013.11.03 @ 06:40:00

GENERAL INFORMATION:

Formation: **L.K.C. "H-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:09:00
Time Test Ended: 15:28:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel / Kevin Ma
Unit No: 66

Interval: 3457.00 ft (KB) To 3585.00 ft (KB) (TVD)
Total Depth: 3585.00 ft (KB) (TVD)
Hole Diameter: inches Hole Condition: Good

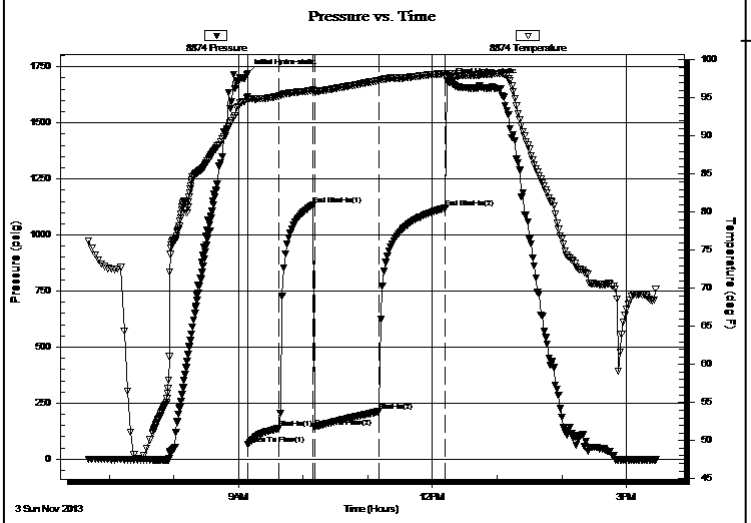
Reference Elevations: 2151.00 ft (KB)
2143.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 212.69 psig @ 3555.00 ft (KB)
Start Date: 2013.11.03 End Date: 2013.11.03
Start Time: 06:41:00 End Time: 15:28:00

Capacity: 8000.00 psig
Last Calib.: 2013.11.03
Time On Btm: 2013.11.03 @ 09:08:30
Time Off Btm: 2013.11.03 @ 12:15:30

TEST COMMENT: I.F. - 30 - BOB in 24 3/4 min
I.S.I - 30 - No blow back
F.F. - 60 - BOB in 32 min
F.S.I. - 60 - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.81	95.18	Initial Hydro-static
1	67.02	94.86	Open To Flow (1)
29	137.37	95.25	Shut-In(1)
61	1133.13	96.03	End Shut-In(1)
62	143.63	95.83	Open To Flow (2)
122	212.69	97.31	Shut-In(2)
184	1120.62	98.23	End Shut-In(2)
187	1681.92	98.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 95W 5M	0.59
30.00	MW 85W 15M	0.39
144.00	OSMW 50W 50M (oil spots)	2.02
30.00	Free Oil 100o	0.42

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

27-1s-18w Phillips,KS

Johnson "C" #1

Job Ticket: 55851 **DST#: 2**

Test Start: 2013.11.03 @ 06:40:00

GENERAL INFORMATION:

Formation: **L.K.C. "H-L"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:09:00
Time Test Ended: 15:28:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel / Kevin Ma
Unit No: 66

Interval: 3457.00 ft (KB) To 3585.00 ft (KB) (TVD)
Total Depth: 3585.00 ft (KB) (TVD)
Hole Diameter: inches Hole Condition: Good

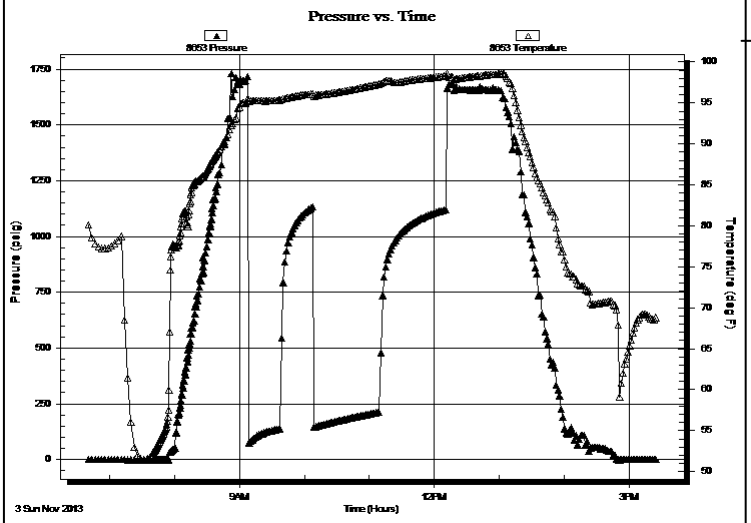
Reference Elevations: 2151.00 ft (KB)
2143.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8653 **Outside**

Press@RunDepth: psig @ 3555.00 ft (KB)
Start Date: 2013.11.03 End Date: 2013.11.03
Start Time: 06:41:00 End Time: 15:24:30

Capacity: 8000.00 psig
Last Calib.: 2013.11.03
Time On Btm:
Time Off Btm:

TEST COMMENT: I.F. - 30 - BOB in 24 3/4 min
I.S.I - 30 - No blow back
F.F. - 60 - BOB in 32 min
F.S.I. - 60 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 95W 5M	0.59
30.00	MW 85W 15M	0.39
144.00	OSMW 50W 50M (oil spots)	2.02
30.00	Free Oil 100o	0.42

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

27-1s-18w Phillips,KS

Johnson "C" #1

Job Ticket: 55851 **DST#: 2**

Test Start: 2013.11.03 @ 06:40:00

Tool Information

Drill Pipe:	Length:	3325.00 ft	Diameter:	3.80 inches	Volume:	46.64 bbl	Tool Weight:		2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:		22000.00 lb
Drill Collar:	Length:	123.00 ft	Diameter:	2.25 inches	Volume:	0.60 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	47.24 bbl	Tool Chased		3.00 ft
Drill Pipe Above KB:		11.00 ft					String Weight:	Initial	60000.00 lb
Depth to Top Packer:		3457.00 ft						Final	64000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		128.00 ft							
Tool Length:		148.00 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			3438.00		
Shut In Tool	5.00			3443.00		
Hydraulic tool	5.00			3448.00		
Packer	5.00			3453.00	20.00	Bottom Of Top Packer
Packer	4.00			3457.00		
Stubb	1.00			3458.00		
Perforations	2.00			3460.00		
Change Over Sub	1.00			3461.00		
Drill Pipe	93.00			3554.00		
Change Over Sub	1.00			3555.00		
Recorder	0.00	8653	Outside	3555.00		
Recorder	0.00	8874	Inside	3555.00		
Perforations	25.00			3580.00		
Bullnose	5.00			3585.00	128.00	Bottom Packers & Anchor
Total Tool Length:	**148.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

27-1s-18w Phillips,KS

Johnson "C" #1

Job Ticket: 55851 **DST#: 2**

Test Start: 2013.11.03 @ 06:40:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	42000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 95W 5M	0.590
30.00	MW 85W 15M	0.393
144.00	OSMW 50W 50M (oil spots)	2.020
30.00	Free Oil 100o	0.421

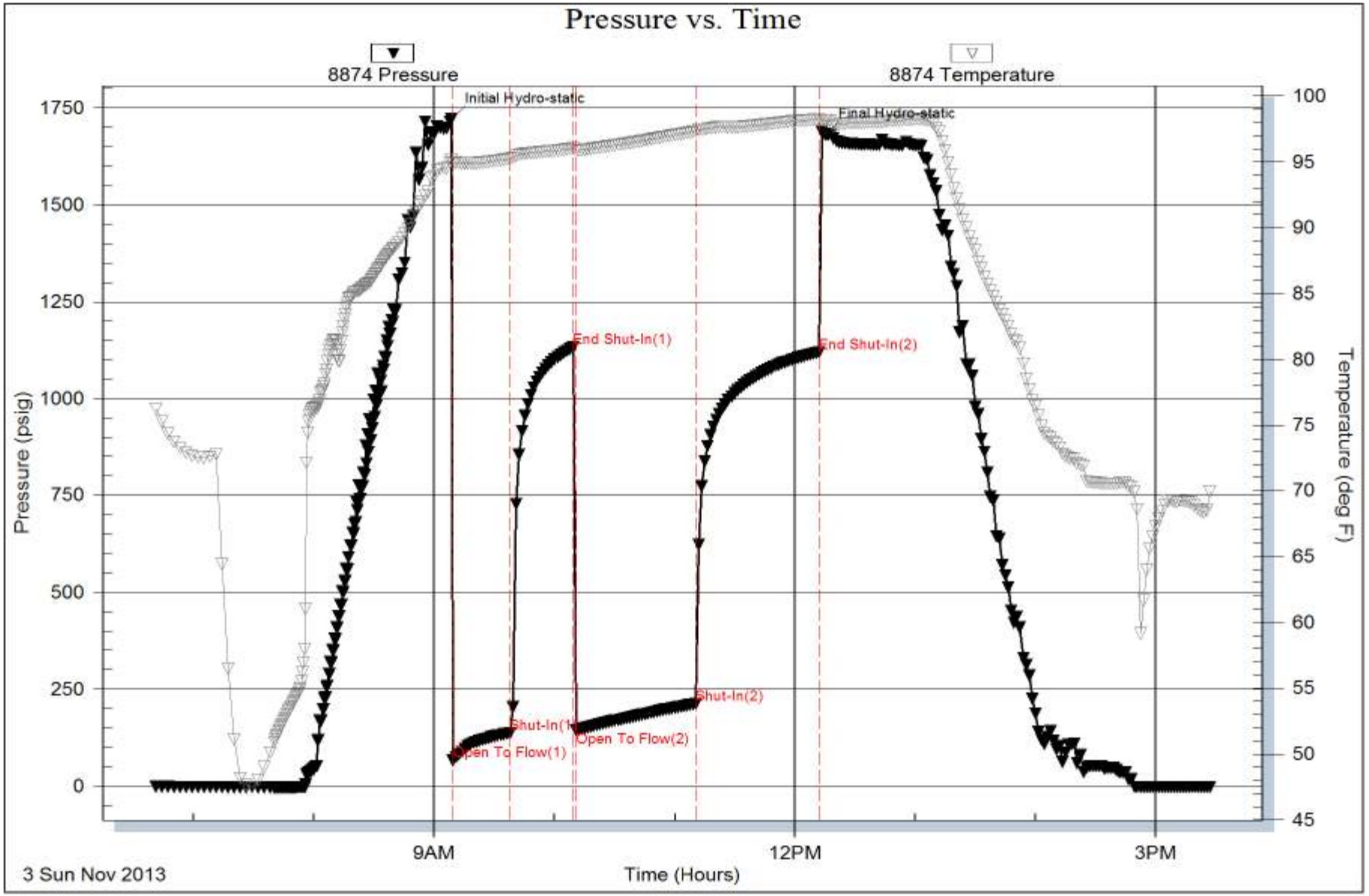
Total Length: 324.00 ft Total Volume: 3.424 bbl

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

Laboratory Name: Laboratory Location:

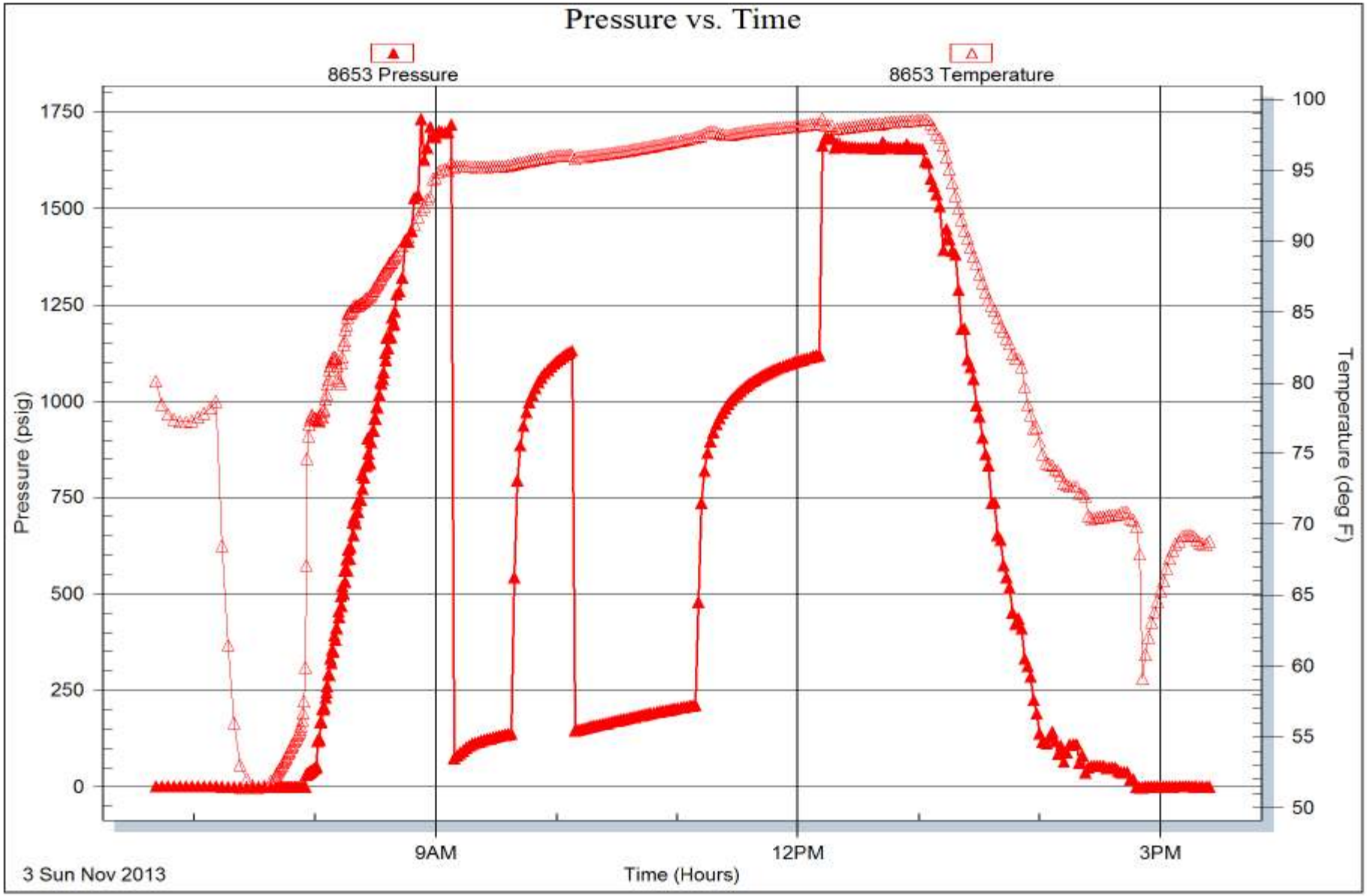
Recovery Comments: Oil API 35 @ 70 deg. = 34 cor
RW .186 @ 70 deg = 42,000ppm

Serial #: 8874 **Inside** John O Farmer Johnson "C" #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 55851 Printed: 2013.11.13 @ 10:58:15

Serial #: 8653 **Outside** John O Farmer Johnson "C" #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 55851 Printed: 2013.11.13 @ 10:58:15

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 54875

Well Name & No. Johnson "C" #1 Test No. 1 Date 11-2-13

Company John O. Farmer INC. Elevation 2151 KB 2143 GL

Address 370 W. Wichita Ave. P.O. Box 352 Russell KS 67665

Co. Rep / Geo. Austin Claus Rig W.W. Rig 12

Location: Sec. 27 Twp. 15 Rge. 18 W Co. Phillips State KS.

Interval Tested 3374-3422 Zone Tested Lans. "C & D"

Anchor Length 48 Drill Pipe Run 3,261 Mud Wt. 8.6

Top Packer Depth 3469 Drill Collars Run 123 Vis 60

Bottom Packer Depth 3474 Wt. Pipe Run — WL 5.4

Total Depth 3422 Chlorides 400 ppm System LCM 3

Blow Description I.F.- 30- 1/4 INT. Blow Died in 2 min...
I.S.I- 30- No B.B.
F.F.-30 No Blow
F.S.I- 30- No B.B.

Rec 10	Feet of OCM	%gas	2 %oil	%water 98	%mud
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 95 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1,618	☑ Test 1150	T-On Location 06:00:00	
(B) First Initial Flow 28	☐ Jars	T-Started 07:50:00	
(C) First Final Flow 38	☐ Safety Joint	T-Open 10:20:00	
(D) Initial Shut-In 825	☐ Circ Sub	T-Pulled 12:20:00	
(E) Second Initial Flow 40	☐ Hourly Standby	T-Out 14:05:00	
(F) Second Final Flow 45	☑ Mileage 160 R.T. 248	Comments Tool slid 5' to Bottom. Thank-you	
(G) Final Shut-In 775	☐ Sampler		
(H) Final Hydrostatic 1,595	☐ Straddle	☐ Ruined Shale Packer	
	☐ Shale Packer	☐ Ruined Packer	
Initial Open 30	☐ Extra Packer	☐ Extra Copies	
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0	
Final Flow 30	☐ Day Standby	Total 1398	
Final Shut-In 30	☐ Accessibility	MP/DST Disc't	
	Sub Total 1398		

Approved By _____ Our Representative Bill Thomas

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

4/10

Test Ticket

NO. 55851

Well Name & No. Johnson "C" #1 Test No. 2 Date 11-3-13

Company John O. Farmer INC. Elevation 2151 KB 2143 GL

Address 370 W. Wichita Ave. P.O. Box 352 Russell KS. 67665

Co. Rep / Geo. Austin Claus Rig W.W. Rig 12

Location: Sec. 27 Twp. 1-S. Rge. 18-W Co. Phillips. State KS.

Interval Tested 3,457 - 3585 Zone Tested L.K.C. "H-L"

Anchor Length 128 Drill Pipe Run 3325 Mud Wt. 9.2

Top Packer Depth 3452 Drill Collars Run 123 Vis 52

Bottom Packer Depth 3457 Wt. Pipe Run — WL 5.8

Total Depth 3585 Chlorides 900 ppm System LCM 2

Blow Description I.F. - 30 - 1/4 INt. Blow B.O.B. in 24 3/4 min.

I.S.I - 30 -- NO B.B.

F.F - 60 - 1/4 INt. Blow Built to B.O.B. in 32 min.

F.S.I - 60 - NO B.B.

Rec 30	Feet of Free Oil	%gas 100	%oil	%water	%mud
Rec 144	Feet of OSMW	%gas Spots	%oil 50	%water 50	%mud
Rec 30	Feet of MW	%gas	%oil 85	%water 15	%mud
Rec 120	Feet of MW	%gas	%oil 95	%water 5	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 324' BHT 98 Gravity 34 API RW .186 @ 70 °F Chlorides 42,000 ppm

(A) Initial Hydrostatic 1720	☑ Test 1150	T-On Location 05:30:00
(B) First Initial Flow 67	☐ Jars	T-Started 06:40:00
(C) First Final Flow 137	☐ Safety Joint	T-Open 09:10:00
(D) Initial Shut-In 1133	☐ Circ Sub	T-Pulled 13:10:00
(E) Second Initial Flow 143	☐ Hourly Standby	T-Out 7:00 PM
(F) Second Final Flow 212	☑ Mileage 160 R.T 248	Comments Split ticket 50/50 between Bob/Kevin Thank-you
(G) Final Shut-In 1120	☐ Sampler	
(H) Final Hydrostatic 1681	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 60	☐ Day Standby	Total 1398
Final Shut-In 60	☐ Accessibility	MP/DST Disc't
	Sub Total 1398	

Approved By Our Representative

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 C #1**		
Location:	**Phillips County**		
License Number:	**API #15-147-20725-0000**	**Region:**	**Kansas**
Spud Date:	**10/29/13**	**Drilling Completed:**	**11/3/13**
Surface Coordinates:	**Section 27 - Township 1 South - Range 18 West** **2,060' FSL & 1,190' FEL**		
Bottom Hole Coordinates:	**Vertical well with minimal deviation, same as above**		
Ground Elevation (ft):	**2,145'**	**K.B. Elevation (ft):**	**2,153'**
Logged Interval (ft):	**3,000'** **To: RTD**	**Total Depth (ft):**	**3,650'**
Formation:	**Topeka-Lansing**		
Type of Drilling Fluid:	**Chemical (Mud Co.)**		

OPERATOR

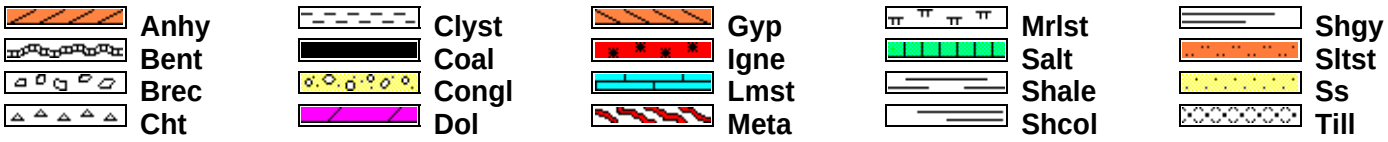
Company:	**John O. Farmer, Inc.**
Address:	**P.O. Box 352** **Russell, KS 67665-0352**

Comments

The Johnson C #1 well was drilled by WW Rig #12 (Tool Pusher: Calvin Pfannenstiel).

The location for the Johnson C #1 well was found via 3-D seismic survey. Structurally, this well ran 2' low to our nearby producing well (Johson B #1). Geologic samples were collected and examined from 3,050'-3,650'. Upon examination of rock samples in the Lansing C & D zones it was decided a bottom-hole test be conducted; this test yielded negative results. A second bottom-hole test was conducted to evaluate zones in the lower Lansing, this test also yielded negative results. After all sample, log, and drill stem test data was gathered and evaluated, the decision was made to plug and abandon the Johnson C #1 well on 11/4/13.

ROCK TYPES



ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

Curve Track 1
ROP (min/ft)
Gas (units)
Gamma (API)

Depth | Lithology | Oil Shows | Geological Descriptions | Drill Stem Tests

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

29

10/29/13 @ 10:45pm
Spud

10/30/13 @ 7:00am Drlg, 225'

10/31/13 @ 7:00am Drlg, 2,110'

11/1/13 @ 7:00am Drlg, 2,978'

3000

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

11/2/13 @ 7:00am
Running DST #1

11/3/13 @ 7:00am
Running DST #2

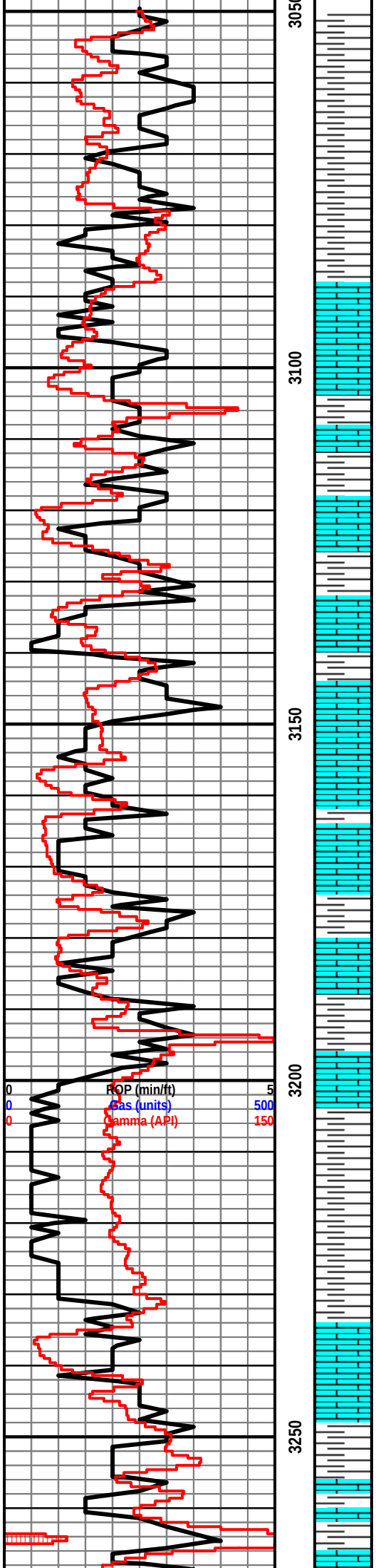
11/4/13 @ 7:00am
Laying down drill pipe, 3,650'

The open-hole logging was performed by Mr. Larry Smith with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density/Compensated Neutron, Dual Induction, and Micro Resistivity.

Formation tops and datums from the open-hole logs include the following:

Anhydrite	1730	421
Topeka	3088	-937
Heebner	3310	-1159
Toronto	3338	-1187
Lansing	3356	-1205
B/KC	3579	-1428
Arbuckle		
Reagan		
RTD		
LTD	3646	-1495

Testers: Bob Hamel & Kevin Mack



Sh: lt-drk gry-brn, rd, scat pyrite

Ls: lt-drk gry, fn-sub xln, mostly DNS, scat pyrite, scat chert-off wh

Sh: lt-drk gry, vry soft

Sh: ala

Sh: gry-brn-rd, vry soft, scat chert-off wh

Topeka 3094' (-943)

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

Ls: ala

Ls: lt gry-tan-brn, fn xln, vry poor int xln porosity, NSFO, no odor, scat chert-off wh

Sh: lt-drk gry-blk, few pcs vry soft

Ls: off wh-lt gry, fn-sub xln, mostly DNS, NSFO, scat chert-off wh, sl chalky, fossil

Ls: lt gry-tan, fn xln, scat int xln porosity, NSFO, vry chalky, scat sltst

Ls: ala

Ls: off wh-tan-lt gry, fn xln, vry poor int xln porosity, NSFO, vry chalky, sl fossil, chert-off wh

Ls: ala

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

Sh: lt-drk gry, soft

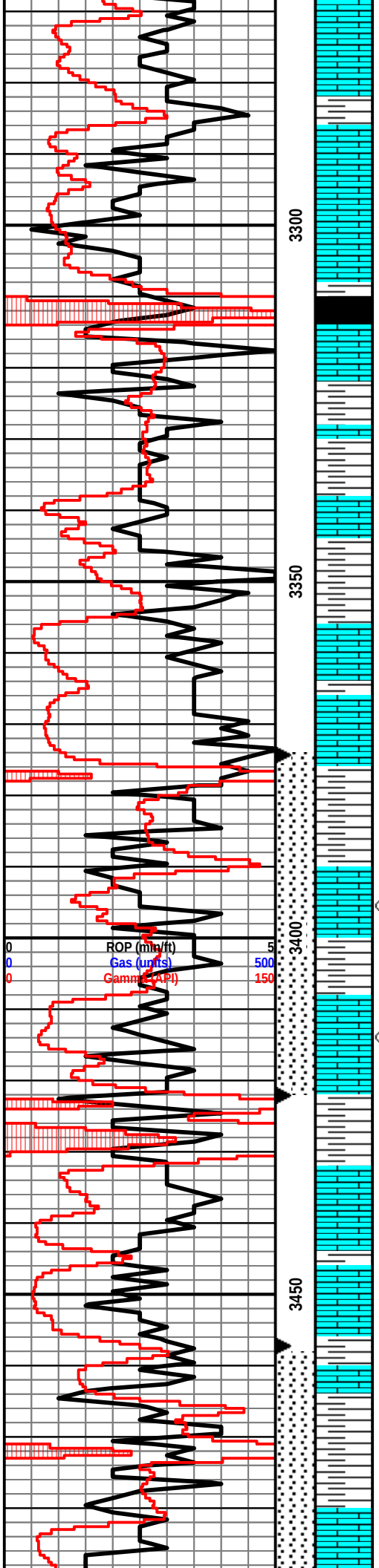
Sh: lt gry-brn-rd, vry soft, scat sltst

Ls: off wh-tan, fn xln, sl fossil, scat int fossil porosity, NSFO, sl chert-off wh, vry chalky

Ls: ala

Sh: drk gry-brn, few pcs soft

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



sl chalky

Ls: ala

Ls: tan-gry, fn-sub xln, DNS, sl fossil, sl chalky

Ls: off wh-lt gry, fn-sub xln, mostly DNS, sl chert-off wh, chalky

Heebner 3311' (-1160)

Sh: blk, carb, fissile

Ls: tan-lt gry, fn-sub xln, mostly DNS, sl chert-off wh, sl chalky, scat sh-drk gry

Ls: ala

Sh: gry-brn-rd, vry soft

Toronto 3339' (-1188)

Ls: off wh-tan-lt gry, fn-sub xln, vry poor int xln porosity, NSFO, no odor, sl chert-off wh, chalky

Sh: lt-drk gry

Lansing 3358' (-1207)

Ls: off wh-lt gry, fn-sub xln, vry DNS, chert-off wh, fossil

Ls: ala, chalky

Sh: drk gry-brn-rd, few pcs vry soft

Sh: lt-drk gry-brn-grn, soft

Ls: off wh-tan, fn-sub xln, vry poor int xln & scat pp vuggy porosity, fair oil st in cup, SSFO, sl-fair odor, vry hvy chert-off wh

Sh: drk gry-brn, vry soft

Ls: off wh-tan-brn, fn-vry fn xln, poor int xln porosity, fair-good oil sat, FSFO, fair-good odor, sl chalky

Sh: drk gry-brn-grn

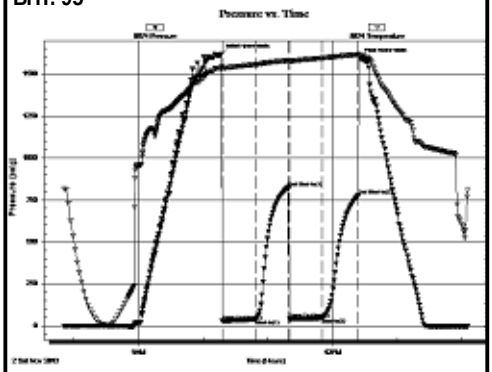
Ls: off wh-tan, fn xln, mostly DNS, vry poor int xln porosity, NSFO, no odor, vry chalky, sl chert-off wh, sl fossil

Ls: off wh-tan-lt gry, fn-sub xln, poor int xln porosity, NSFO, chalky, sl chert-off wh

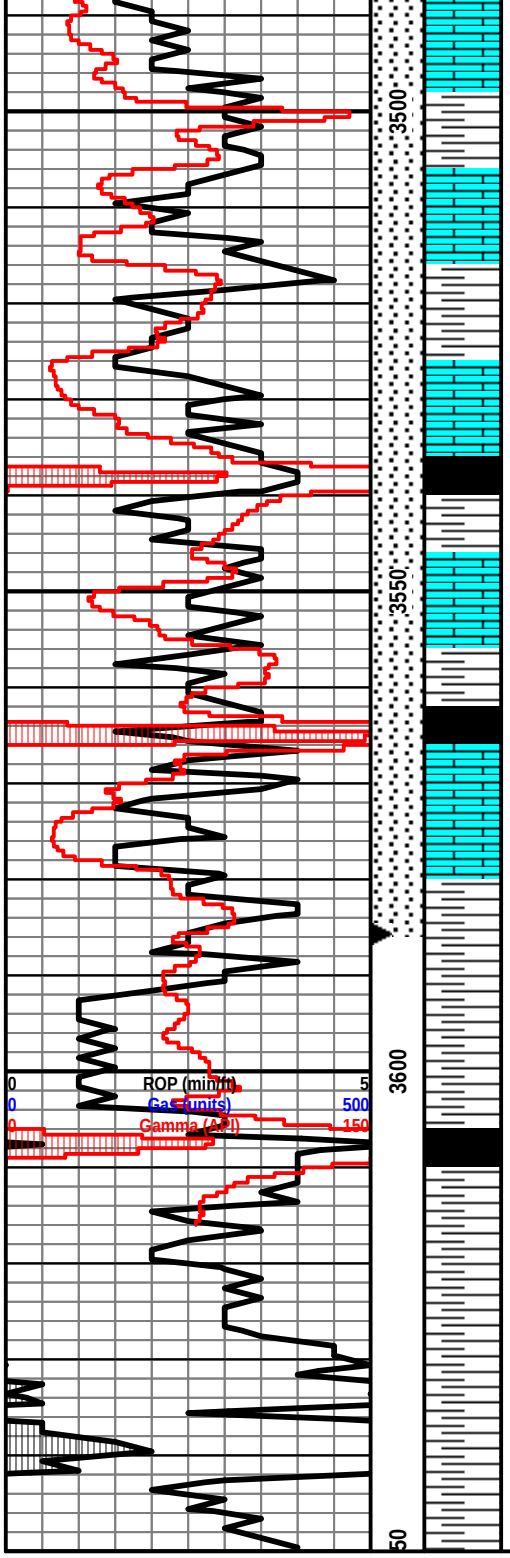
Sh: drk gry-blk

Ls: off wh-lt gry, fn-sub xln, mostly DNS, NSFO, vry chalky, sl fossil

DST #1 3,374'-3,422' (LKC C&D zones)
30"-30"-30"-30"
IF: 1/4" blow, died in 2 min, no blow back
FF: No blow, no blow back
Rec: 10' OCM (2% O, 98% M)
FP: 28-38#, 40-45#
SIP: 825-775#
HP: 1,617-1,595#
BHT: 95



DST #2 3,457'-3,585' (LKC H-L zones)
30"-30"-60"-60"
IF: 1/4" blow built to BOB in 24 min, no blow back
FF: 1/4" blow built to BOB in 32 min, no blow back
Rec: 30' Free Oil (34 degree API), 30' MW (15% M, 85% W), 120' MW (5% M, 95% W) Chl 42,000 ppm
FP: 67-137#, 144-213#
SIP: 1,133-1,121#



Ls: tan-lt gry, fn-sub xln, vry DNS, chalky, hvy chert-off wh, sl fossil

Sh: lt-drk gry

Ls: tan-lt gry, fn xln, poor int xln porosity, vry lt oil st, VSSFO, sl-fair odor, hvy chert-off wh, sl chalky

Sh: drk gry-brn, few pcs soft

Ls: lt gry-tan-brn, fn-sub xln, mostly DNS, NSFO, no odor, hvy chert-off wh, sl fossil

Sh: lt-drk gry-brn-grn, soft

Ls: off wh-lt gry, fn xln, poor int xln porosity, vry lt oil st, VSSFO, sl odor, hvy chert-off wh, vry chalky

Sh: drk gry-brn-grn, soft

Ls: off wh-tan-lt gry, fn xln, poor int xln porosity, VSSFO, sl odor, vry chalky, sl fossil

B/KC 3581' (-1430)

Sh: lt-drk gry-brn-grn

Sh: drk gry-brn-red

Sh: lt-drk gry-brn-grn, vry soft

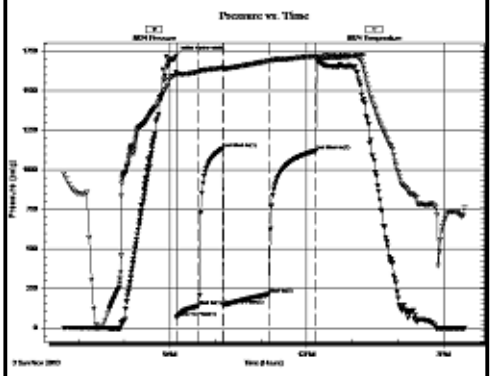
Sh: drk gry-brn, vry soft

Sh: ala

Sh: drk gry-brn-grn, vry soft

Sh: ala

HP: 1,720-1,692#
BHT: 98



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No.** 7462
Cell 785-324-1041

Date 10-29-13	Sec. 27	Twp. 1	Range 18	County Phillips	State KS	On Location	Finish 10:45pm

Location Phillips Berg 9W 1/4W Sinto

Lease Johnson C	Well No. 1	Owner	
Contractor WW #12		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 Surface			
Hole Size 12 1/4	T.D. 221	Charge To John O Farmer	
Csg. 8 5/8	Depth 220	Street	
Tbg. Size	Depth	City	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg. 15'	Shoe Joint	Cement Amount Ordered 150 com 3/CC 2/ Gel	
Meas Line	Displace 13 BL		

EQUIPMENT

Pumptrk 17	No.	Cementer	Craig
		Helper	Tony
Bulktrk	No.	Driver	
		Driver	
Bulktrk 14	No.	Driver	
		Driver	Doug

JOB SERVICES & REMARKS

Remarks:	
Rat Hole	
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	
8 5/8 on bottom. Est. Circulation. Mix 150 sk 4 Displace Cement Circulated.	

Common 150	
Poz. Mix	
Gel. 3	
Calcium 5	
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling 158	
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge Surface	
Mileage 69	
Tax	
Discount	
Total Charge	

X Signature Cal Gfarmer

ALLIED OIL & GAS SERVICES, LLC 054821

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell KS

DATE 11-4-13	SEC. 27	TWP. 1	RANGE 18	CALLED OUT	ON LOCATION	JOB START 1:00pm	JOB FINISH 1:30pm
LEASE Johnson C	WELL # 1	LOCATION Phillipsburg KS. 11 n/2 W 5 into				COUNTY Phillips	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR WW 12
TYPE OF JOB PTA
HOLE SIZE 7 7/8 T.D. 3650
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4½ 16.6 DEPTH 1745
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER

CEMENT
AMOUNT ORDERED 205 60/40 4%gel ¼# F/o

EQUIPMENT

PUMP TRUCK CEMENTER Robert T
417 HELPER Danny S.
BULK TRUCK
473 DRIVER Jesse C.
BULK TRUCK
DRIVER

COMMON	123	@ 17.90	2201.70
POZMIX	82	@ 9.35	766.70
GEL	7.05	@ 23.40	164.97
CHLORIDE		@	
ASC		@	
F/o	50#	@ 2.97	148.50
HANDLING	220.08 sx	@ 2.48	545.81
MILEAGE	459.625 t/m	2.60	1195.03

TOTAL 5022.70

REMARKS:

p1 25 @ 1745
p2 100 @ 1250
p3 40 @ 270
p4 10 @ 40
30 in Rathole

Thank you!!

SERVICE

DEPTH OF JOB	1745		
PUMP TRUCK CHARGE	2249.84		
EXTRA FOOTAGE		@	
MILEAGE	50 HVMI	@ 7.70	385.00
MANIFOLD		@	
	50 LVMI	@ 4.40	220.00
		@	

TOTAL 2854.84

CHARGE TO: John O Farmer
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

8⅝ Wooden plug	@ 64.80	64.80
	@	
	@	
	@	
	@	

TOTAL 64.80

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)
TOTAL CHARGES 7942.34
DISCOUNT 1181.63 IF PAID IN 30 DAYS

PRINTED NAME Calvin Hammerstrom

SIGNATURE

Net $ 6760.71