Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1234389

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 #:

11/08/2014	11/13/2014	11/14/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24273-00-00
Spot Description: SW NW NW NW
SW NW NW NW Sec. 36 Twp. 8 S. R. 18 ☐ East ☑ West
620 Feet from ☑ North / ☐ South Line of Section
115 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: Rooks
Lease Name: Weigel Unit Well #: 1
Field Name: Dopita
Producing Formation: None
Elevation: Ground: 2022 Kelly Bushing: 2027
Total Vertical Depth: 3540 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 262 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: 46000 ppm Fluid volume: 600 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: 12/08/2014
☑ **Confidential Release Date:** 12/07/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 12/08/2014

[redacted] 1234389

Operator Name: Farmer, John O., Inc. Lease Name: Weigel Unit Well #: 1

Sec. 36 Twp. 8 S. R. 18 ☐ East ☑ West County: Rooks

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:

Compensated Density Neutron Log
Micro Resistivity Log
Dual Induction Log

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

Name: Attached Top: Attached Datum: Attached

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	262	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:
_____
_____

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Weigel Unit 1
Doc ID	1234389

Tops

Name	Top	Datum
Anhydrite	1360'	(+667)
Topeka	2946'	(-919)
Heebner	3157'	(-1130)
Toronto	3180'	(-1153)
Lansing	3198'	(-1171)
Base/KC	3419'	(-1392)
Arbuckle	3451'	(-1424)
L.T.D.	3537'	(-1510)

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Weigel Unit 1
Doc ID	1234389

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	262	Common	150	3% C.C., 2% gel

ALLIED
OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 11-8-14 District Russell Ticket No. 55541
Company John O Farmer Rig WOW #6
Lease Weigel Unit Well No. 1
County Barton State KS
Location Ellinwood KS Field
5a 1/2 E. 3/4 S E into

CASING DATA: Conductor ☐ PTA ☐ Squeeze ☐ Misc ☐
Surface ☒ Intermediate ☐ Production ☐ Liner ☐
Size 8 5/8 Type new Weight 20# Collar
Ran 6 Jts 8 5/8 in 12 1/4 Hole
@ 262'
Casing Depths: Top 0 Bottom 262'
SJ - 15
Drill Pipe: Size Weight Collars
Open Hole: Size T.D. ft. P.B. to ft.

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. Lin. ft./Bbl. .0637
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl. .0637
Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.
Annulus: Bbls/Lin. ft. Lin. ft./Bbl.
Bbls/Lin. ft. Lin. ft./Bbl.
Perforations: From ft. to ft. Amt.

CEMENT DATA:
Spacer Type:
Amt. 150 Sks Yield 1.32 ft³/sk Density PPG
+ 3% cc + 2% gel
LEAD: Pump Time hrs. Type
Excess
Amt. Sks Yield ft³/sk Density PPG
TAIL: Pump Time hrs. Type
Excess
Amt. Sks Yield ft³/sk Density PPG
WATER: Lead gals/sk Tail gals/sk Total Bbls.
Pump Trucks Used 419 - Danny S
Bulk Equip.
457 - Jon W
Float Equip: Manufacturer
Shoe: Type Depth
Float: Type Depth
Centralizers: Quantity Plugs Top Btm.
Stage Collars
Special Equip.
Disp. Fluid Type Amt. Bbls. Weight PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE
CEMENTER Cory K Jannenkief

TIME AM/PM	PRESSURES PSI DRILL PIPE CASING	PRESSURES PSI ANNULUS	FLUID PUMPED DATA TOTAL FLUID	FLUID PUMPED DATA Pumped Per Time Period	FLUID PUMPED DATA RATE Bbls Min.	REMARKS
500						On location - Safety meeting Set up Truck
						Ran 6 Jts 8 5/8 Csg. in 12 1/4 Hole @ 262'
			40		6	Break circulation with rig pump
			21		3	Mixed 150 sk Cem + 3% cc + 2% gel @ 14.8 ppg. Yield 1.32
			15.72		3	Displaced Cement @ 15.13 ppg Cement to Surface.
						Shut in @ 450 psi
						Job Complete
700			8		2	Washed Truck

FINAL DISP. PRESS: PSI BUMP PLUG TO PSI BLEEDBACK BBLS. THANK YOU

MILLER PRINTERS, INC. - Great Bend, KS

ALLIED OIL & GAS SERVICES, LLC 055541

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

DATE 11-8-14	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE	WELL #		LOCATION			COUNTY	STATE
OLD OR NEW (Circle one)							

CONTRACTOR
TYPE OF JOB
HOLE SIZE T.D.
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER

CEMENT
AMOUNT ORDERED

EQUIPMENT

PUMP TRUCK CEMENTER
HELPER
BULK TRUCK
DRIVER
BULK TRUCK
DRIVER

COMMON		@	
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
HANDLING		@	
MILEAGE			
		TOTAL	

REMARKS:

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			
EXTRA FOOTAGE		@	
MILEAGE		@	
MANIFOLD		@	
		@	
		@	
		TOTAL	

CHARGE TO:
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

		@	
		@	
		@	
		@	
		@	
		TOTAL	

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
DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME Mark Biggs

SIGNATURE

ALLIED OIL & GAS SERVICES, LLC 055566

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell KS

DATE 11-14-14	SEC. 36	TWP. 8	RANGE 18	CALLED OUT	ON LOCATION	JOB START 130 AM	JOB FINISH 200 AM
LEASE Weigel	WELL # 1		LOCATION Plainville KS 5W ½ E			COUNTY Rooks	STATE KS
OLD OR (NEW) (Circle one)			3/4 N Into				

CONTRACTOR WW #6
TYPE OF JOB PTA
HOLE SIZE 7 7/8 T.D. 3540
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4½ 16.6 DEPTH 3431
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER

CEMENT
AMOUNT ORDERED 290 60/40 4%gel ¼ #/c

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y
409 HELPER Waylon D
BULK TRUCK
985 DRIVER Tracy J Strom S
BULK TRUCK
DRIVER

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
60/40 4%gel 290	@	18.92	5486.80
Slo-cem T 70#	@	2.97	207.90
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING 290	@	2.48	719.20
MILEAGE 389 +/-		2.75	1069.75
	TOTAL		7483.65

REMARKS:

p1 50 sks @ 3431
p2 50 sks @ 1385
p3 100 sks @ 825
p4 50 sks @ 310
p5 10 sks @ 40
30 sks in Rathole

Thank you!!!

SERVICE

DEPTH OF JOB	3431		
PUMP TRUCK CHARGE	2600.47		
EXTRA FOOTAGE	@		
MILEAGE 30 LVMT	@	4.40	132.00
MANIFOLD	@		
30 HVMT	@	7.70	231.00
	@		
	TOTAL		2963.47

CHARGE TO: John O Farmer
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

8⅝ Wood plug	@	110.00	110.00
	@		
	@		
	@		
	@		
	TOTAL		

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 10557.12
DISCOUNT 3167.14 IF PAID IN 30 DAYS
net $ 7389.98

PRINTED NAME Mark Bigge
SIGNATURE Mark Bigge

ALLIED
OIL & GAS SERVICES, LLC

CEMENTING LOG

STAGE NO.

Date 11-14-14 District Russell Ticket No. 55566

Company John O. Farmer Rig WW 6

Lease Wendt Unit Well No. 1

County Rooks State KS

Location Plainville KS SW 1/6 [illegible] 3/4 N E into Field

CASING DATA: Conductor ☐ PTA ☑ Squeeze ☐ Misc ☐ Surface ☐ Intermediate ☐ Production ☐ Liner ☐

Size ______ Type ______ Weight ______ Collar ______

Casing Depths: Top ______ Bottom ______

Drill Pipe: Size 4 1/2 Weight 16.6 Collars ______

Open Hole: Size 7 7/8 T.D. 3540 ft. P.B. to ______ ft.

CAPACITY FACTORS:

Casing:	Bbls/Lin. ft.	Lin. ft./Bbl.
Open Holes:	Bbls/Lin. ft.	Lin. ft./Bbl.
Drill Pipe:	Bbls/Lin. ft.	Lin. ft./Bbl.
Annulus:	Bbls/Lin. ft.	Lin. ft./Bbl.
	Bbls/Lin. ft.	Lin. ft./Bbl.

Perforations: From ______ ft. to ______ ft. Amt. ______

CEMENT DATA:

Spacer Type: ______

Amt. ______ Sks Yield ______ ft³/sk Density ______ PPG

LEAD: Pump Time ______ hrs. Type 60/40 4% gel 1/4 # flo Excess ______

Amt. 290 Sks Yield 1.61 ft³/sk Density 13 PPG

TAIL: Pump Time ______ hrs. Type ______ Excess ______

Amt. ______ Sks Yield ______ ft³/sk Density ______ PPG

WATER: Lead 3.43 gals/sk Tail ______ gals/sk Total ______ Bbls.

Pump Trucks Used 409 - Nathan D

Bulk Equip. 385 Travis J [illegible] S

Float Equip: Manufacturer ______

Shoe: Type ______ Depth ______

Float: Type ______ Depth ______

Centralizers: Quantity ______ Plugs Top ______ Btm. ______

Stage Collars ______

Special Equip. ______

Disp. Fluid Type ______ Amt. ______ Bbls. Weight ______ PPG

Mud Type ______ Weight ______ PPG

COMPANY REPRESENTATIVE [illegible]

CEMENTER [illegible]

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						on location safety meeting
						run in drill pipe
						circulate hole with mud pump
1016PM	150		14.34			mix 50sks @ 3451
	150		1.5			displace with water
			40			displace with mud
1143PM	150		8			pump water ahead @ 1385
	150		14.34			mix 50sks
	150		9			displace with water
1217AM	150		28.67			mix 100sks @ 825
	150		4			displaced with water
1246AM	150		14.34			mix 50sks @ 310
	150		1/2			displace with water
	0		2.87			mix 10sks @ 40
	0		8.60			mix 30sks in Rat hole
						washup
						tear down
						leave location

FINAL DISP. PRESS: ______ PSI BUMP PLUG TO ______ PSI BLEEDBACK ______ BBLS. THANK YOU

MILLER PRINTERS INC - Great Bend, KS

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

Weigel Unit #1

36-8s-18w Rooks,KS

Start Date: 2014.11.12 @ 10:10:39
End Date: 2014.11.12 @ 16:47:33
Job Ticket #: 60898 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.14 @ 11:57:35

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60898 **DST#: 1**

Test Start: 2014.11.12 @ 10:10:39

GENERAL INFORMATION:

Formation: **LKC H-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:53:34
Time Test Ended: 16:47:33

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schw ager
Unit No: 70

Interval: 3338.00 ft (KB) To 3416.00 ft (KB) (TVD)
Total Depth: 3416.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

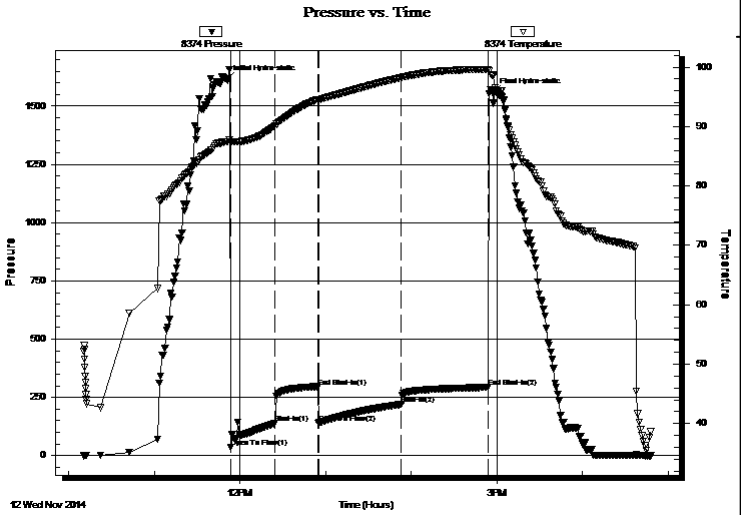
Reference Elevations: 2027.00 ft (KB)
2022.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8374 **Inside**

Press@RunDepth: 220.64 psig @ 3351.00 ft (KB)
Start Date: 2014.11.12 End Date: 2014.11.12
Start Time: 10:10:39 End Time: 16:47:33

Capacity: 8000.00 psig
Last Calib.: 2014.11.12
Time On Btm: 2014.11.12 @ 11:51:04
Time Off Btm: 2014.11.12 @ 14:57:03

TEST COMMENT: 30-IFP-w k to strg in 15 min
30-ISIP-no bl
60-FFP-w k to a gd bl 1/4" to 8 "bl
60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.87	87.40	Initial Hydro-static
3	35.11	87.23	Open To Flow (1)
34	138.08	90.09	Shut-In(1)
64	295.08	94.56	End Shut-In(1)
64	139.97	94.50	Open To Flow (2)
122	220.64	98.25	Shut-In(2)
183	292.89	99.61	End Shut-In(2)
186	1556.61	98.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 25%M75%W w /show of oil	0.30
375.00	Water	4.71

Gas Rates

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

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60898 **DST#: 1**

Test Start: 2014.11.12 @ 10:10:39

GENERAL INFORMATION:

Formation: **LKC H-K**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:53:34
Time Test Ended: 16:47:33

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schw ager
Unit No: 70

Interval: 3338.00 ft (KB) To 3416.00 ft (KB) (TVD)
Total Depth: 3416.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

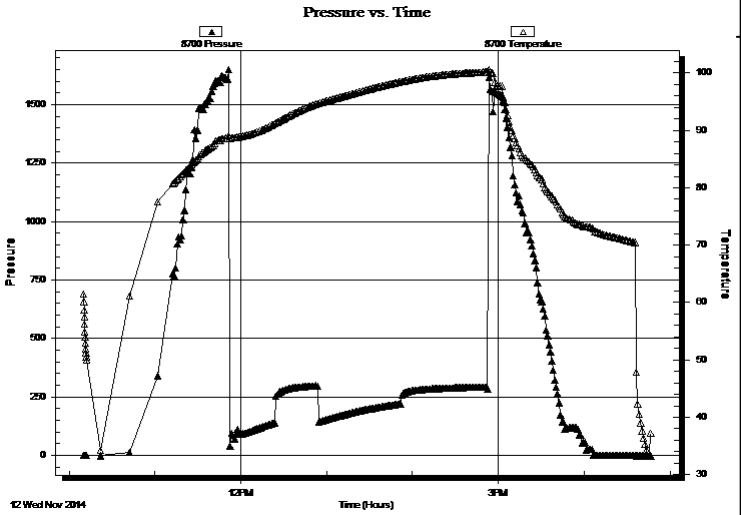
Reference Elevations: 2027.00 ft (KB)
2022.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8700 **Outside**

Press@RunDepth: psig @ 3351.00 ft (KB)
Start Date: 2014.11.12 End Date: 2014.11.12
Start Time: 10:10:08 End Time: 16:46:32

Capacity: 8000.00 psig
Last Calib.: 2014.11.12
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-w k to strg in 15 min
30-ISIP-no bl
60-FFP-w k to a gd bl 1/4" to 8 "bl
60-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 25%M75%W w /show of oil	0.30
375.00	Water	4.71

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60898 **DST#: 1**

Test Start: 2014.11.12 @ 10:10:39

Tool Information

Drill Pipe:	Length:	3205.00 ft	Diameter:	3.80 inches	Volume:	44.96 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:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:		45000.00 lb
					Total Volume:	45.55 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		8.00 ft					String Weight:	Initial	36000.00 lb
Depth to Top Packer:		3338.00 ft						Final	38000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		78.00 ft							
Tool Length:		99.00 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			3318.00		
Shut In Tool	5.00			3323.00		
Hydraulic tool	5.00			3328.00		
Packer	5.00			3333.00	21.00	Bottom Of Top Packer
Packer	5.00			3338.00		
Stubb	1.00			3339.00		
Perforations	12.00			3351.00		
Recorder	0.00	8374	Inside	3351.00		
Recorder	0.00	8700	Outside	3351.00		
Blank Spacing	62.00			3413.00		
Bullnose	3.00			3416.00	78.00	Bottom Packers & Anchor
Total Tool Length:	**99.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60898 **DST#: 1**

Test Start: 2014.11.12 @ 10:10:39

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:	52000 ppm
Viscosity:	63.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.91 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MW 25%M75%W w/show of oil	0.295
375.00	Water	4.714

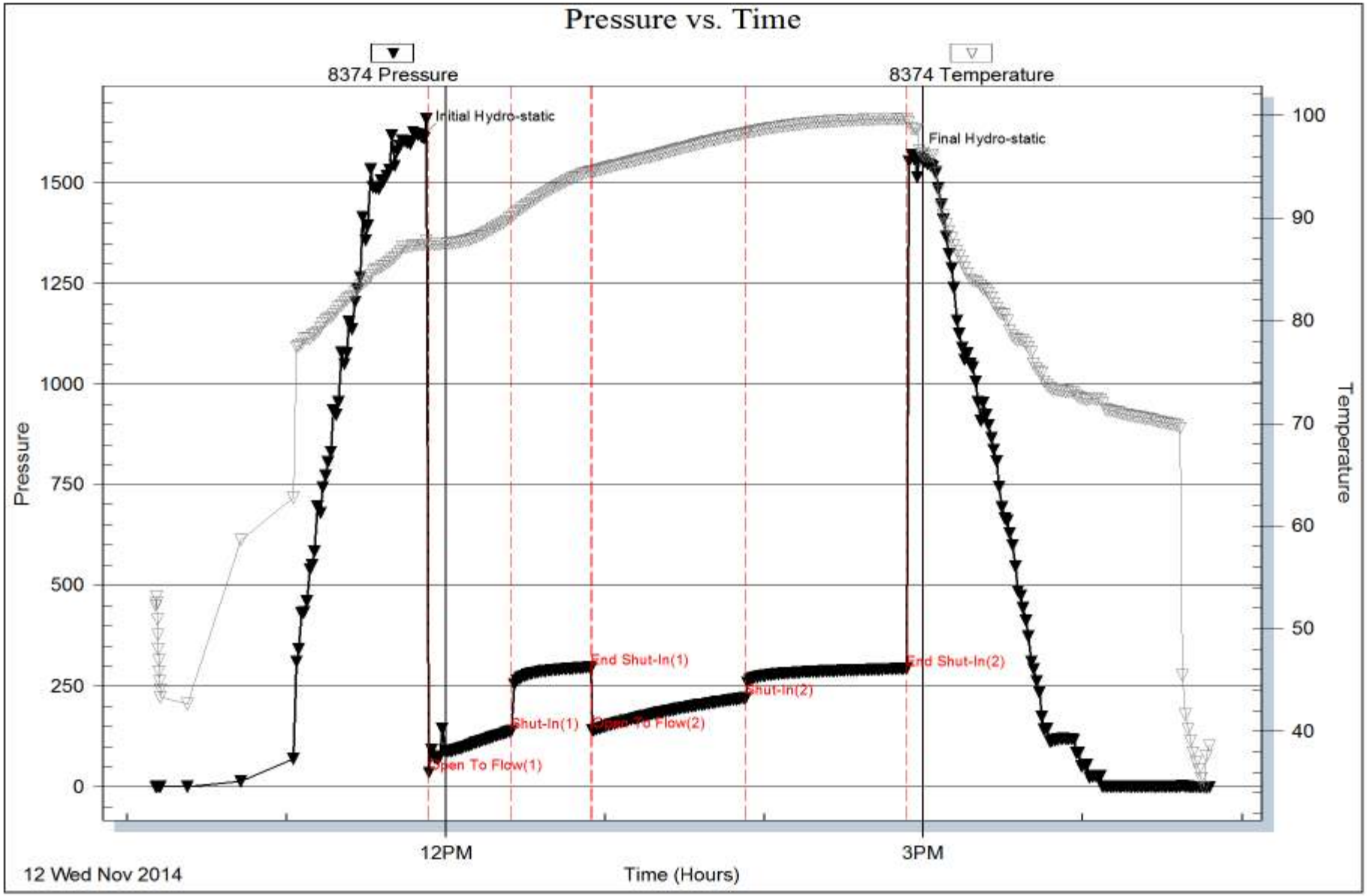
Total Length: 435.00 ft Total Volume: 5.009 bbl

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

Laboratory Name: Laboratory Location:

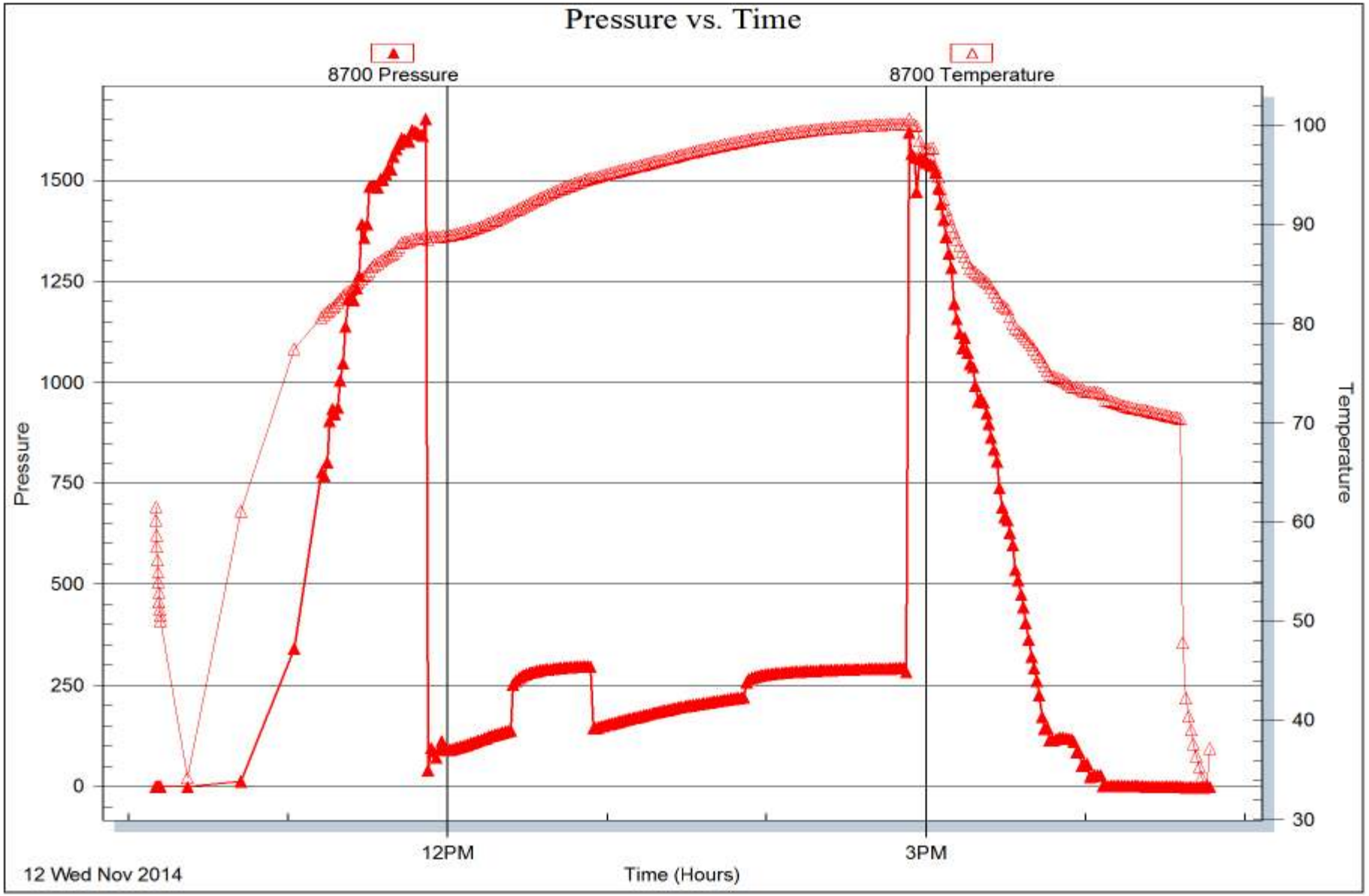
Recovery Comments: 10# LCM
RW .25@42F

Serial #: 8374 **Inside** John O Farmer Inc Weigel Unit #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60898 Printed: 2014.11.14 @ 11:57:36

Serial #: 8700 **Outside** John O Farmer Inc Weigel Unit #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60898 Printed: 2014.11.14 @ 11:57:36

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

Weigel Unit #1

36-8s-18w Rooks,KS

Start Date: 2014.11.13 @ 07:40:12
End Date: 2014.11.13 @ 13:01:42
Job Ticket #: 60899 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.14 @ 11:57:12

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60899 **DST#: 2**

Test Start: 2014.11.13 @ 07:40:12

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:26:12
Time Test Ended: 13:01:42

Test Type: Conventional Straddle (Reset)
Tester: Ray Schw ager
Unit No: 70

Interval: 3417.00 ft (KB) To 3462.00 ft (KB) (TVD)
Total Depth: 3540.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

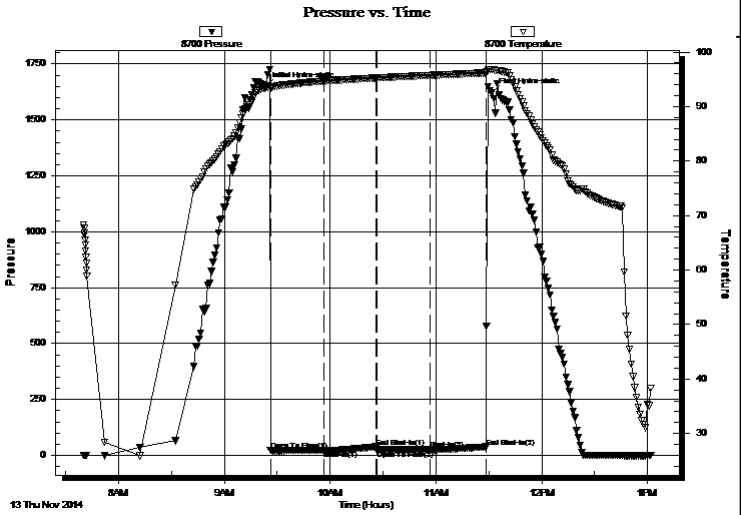
Reference Elevations: 2027.00 ft (KB)
2022.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8700 **Outside**

Press@RunDepth: 25.07 psig @ 3421.00 ft (KB)
Start Date: 2014.11.13 End Date: 2014.11.13
Start Time: 07:40:17 End Time: 13:01:41

Capacity: 8000.00 psig
Last Calib.: 2014.11.13
Time On Btm: 2014.11.13 @ 09:23:42
Time Off Btm: 2014.11.13 @ 11:31:42

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.01	93.43	Initial Hydro-static
3	21.60	93.37	Open To Flow (1)
33	22.01	94.66	Shut-In(1)
63	38.17	95.24	End Shut-In(1)
63	23.00	95.24	Open To Flow (2)
93	25.07	95.72	Shut-In(2)
125	37.69	96.17	End Shut-In(2)
128	1623.58	96.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.10

* 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 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60899 **DST#: 2**

Test Start: 2014.11.13 @ 07:40:12

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:26:12
Time Test Ended: 13:01:42

Test Type: Conventional Straddle (Reset)
Tester: Ray Schw ager
Unit No: 70

Interval: 3417.00 ft (KB) To 3462.00 ft (KB) (TVD)
Total Depth: 3540.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

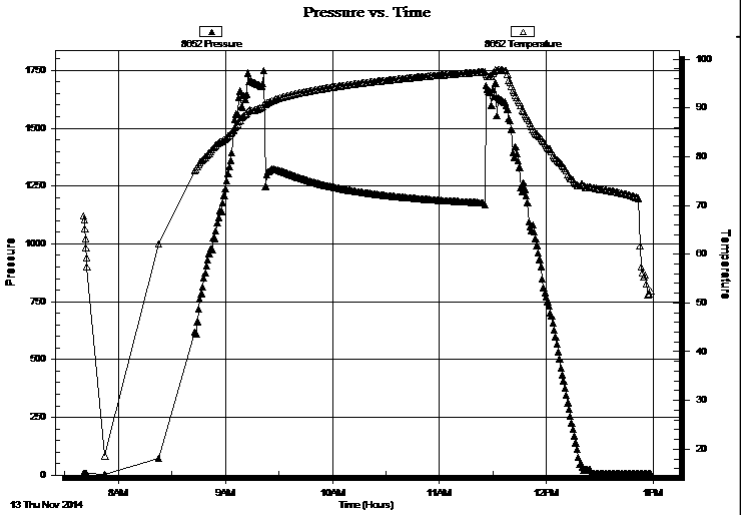
Reference Elevations: 2027.00 ft (KB)
2022.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8652 **Below (Straddle)**

Press@RunDepth: psig @ 3478.00 ft (KB)
Start Date: 2014.11.13 End Date: 2014.11.13
Start Time: 07:40:29 End Time: 12:58:23

Capacity: 8000.00 psig
Last Calib.: 2014.11.13
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 1/2" 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)
20.00	Mud	0.10

* 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 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60899 **DST#: 2**

Test Start: 2014.11.13 @ 07:40:12

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:26:12
Time Test Ended: 13:01:42

Test Type: Conventional Straddle (Reset)
Tester: Ray Schw ager
Unit No: 70

Interval: 3417.00 ft (KB) To 3462.00 ft (KB) (TVD)
Total Depth: 3540.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

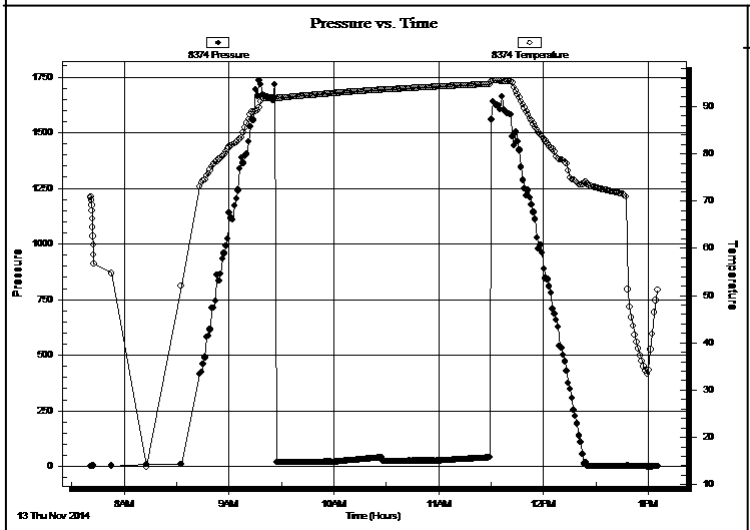
Reference Elevations: 2027.00 ft (KB)
2022.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8374 **Inside**

Press@RunDepth: psig @ 3421.00 ft (KB)
Start Date: 2014.11.13 End Date: 2014.11.13
Start Time: 07:40:49 End Time: 13:05:13

Capacity: 8000.00 psig
Last Calib.: 2014.11.13
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to 1/2" 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)
20.00	Mud	0.10

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60899 **DST#: 2**

Test Start: 2014.11.13 @ 07:40:12

Tool Information

Drill Pipe:	Length:	3297.00 ft	Diameter:	3.80 inches	Volume:	46.25 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	
					Total Volume:	46.84 bbl	

Drill Pipe Above KB:	21.00 ft
Depth to Top Packer:	3417.00 ft
Depth to Bottom Packer:	3462.00 ft
Interval betw een Packers:	45.00 ft
Tool Length:	147.00 ft
Number of Packers:	3 Diameter: 6.75 inches

Tool Weight:	2200.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	45000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	39000.00 lb
Final	39000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3397.00		
Shut In Tool	5.00			3402.00		
Hydraulic tool	5.00			3407.00		
Packer	5.00			3412.00	21.00	Bottom Of Top Packer
Packer	5.00			3417.00		
Stubb	1.00			3418.00		
Perforations	3.00			3421.00		
Recorder	0.00	8374	Inside	3421.00		
Recorder	0.00	8700	Outside	3421.00		
Blank Spacing	32.00			3453.00		
Perforations	5.00			3458.00		
Blank Off Sub	1.00			3459.00		
Blank Spacing	3.00			3462.00	45.00	Tool Interval
Packer	5.00			3467.00		
Stubb	1.00			3468.00		
Perforations	10.00			3478.00		
Recorder	0.00	8652	Below	3478.00		
Blank Spacing	62.00			3540.00		
Bullnose	3.00			3543.00	81.00	Bottom Packers & Anchor
Total Tool Length:	**147.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60899 **DST#: 2**

Test Start: 2014.11.13 @ 07:40:12

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:	72.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.55 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

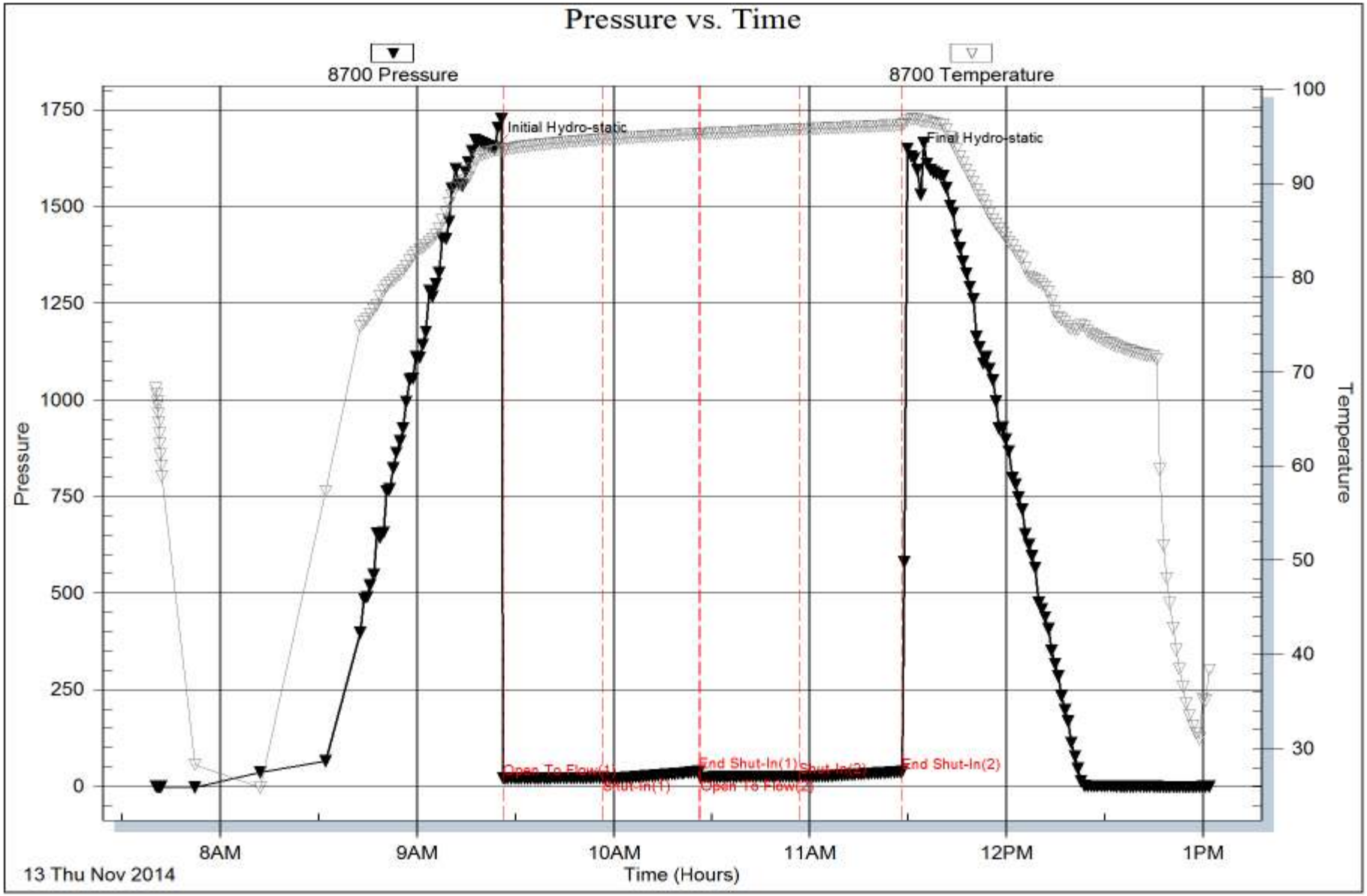
Recovery Table

Length ft	Description	Volume bbl
20.00	Mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

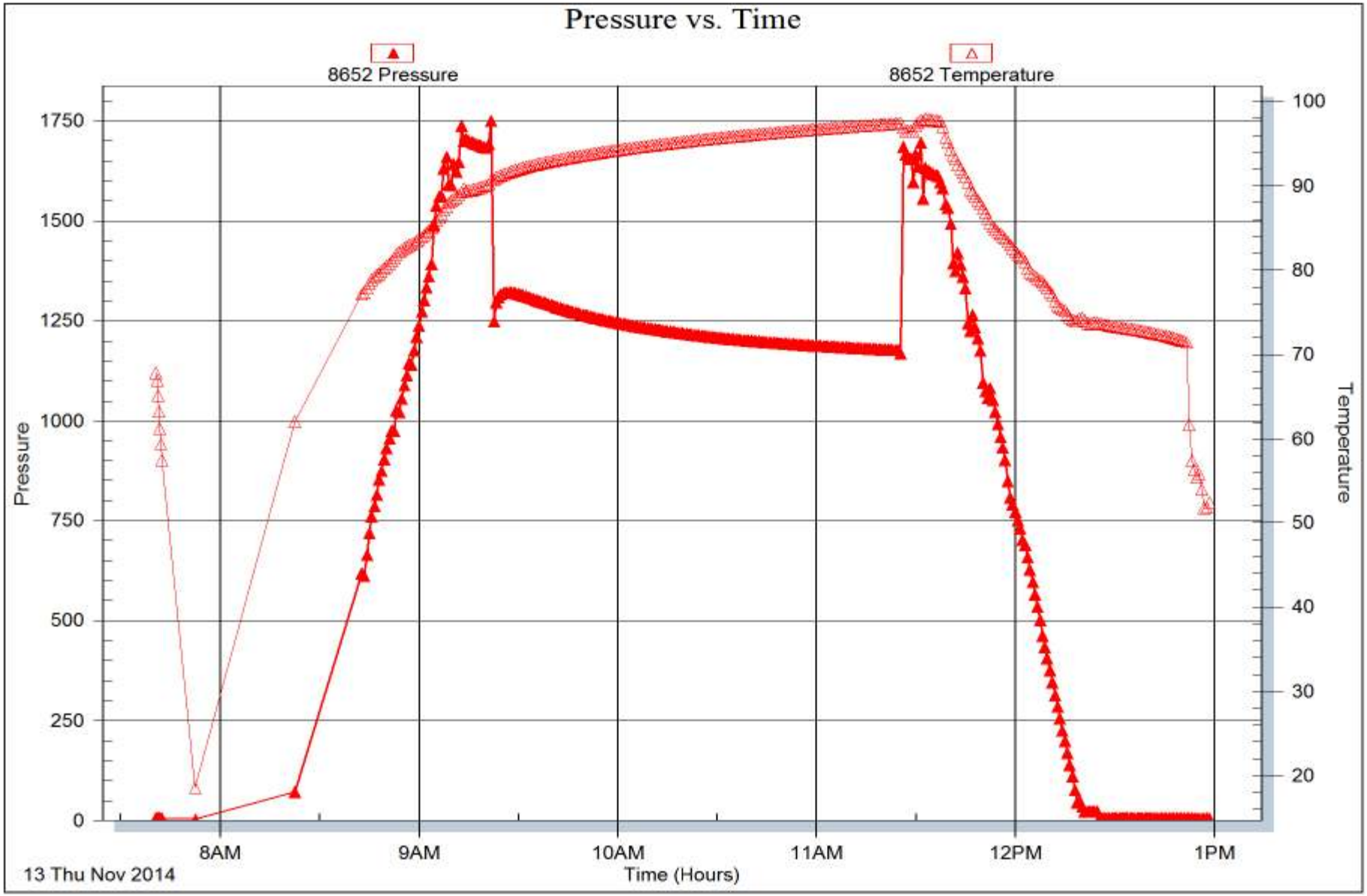
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8700 **Outside** John O Farmer Inc Weigel Unit #1 DST Test Number: 2



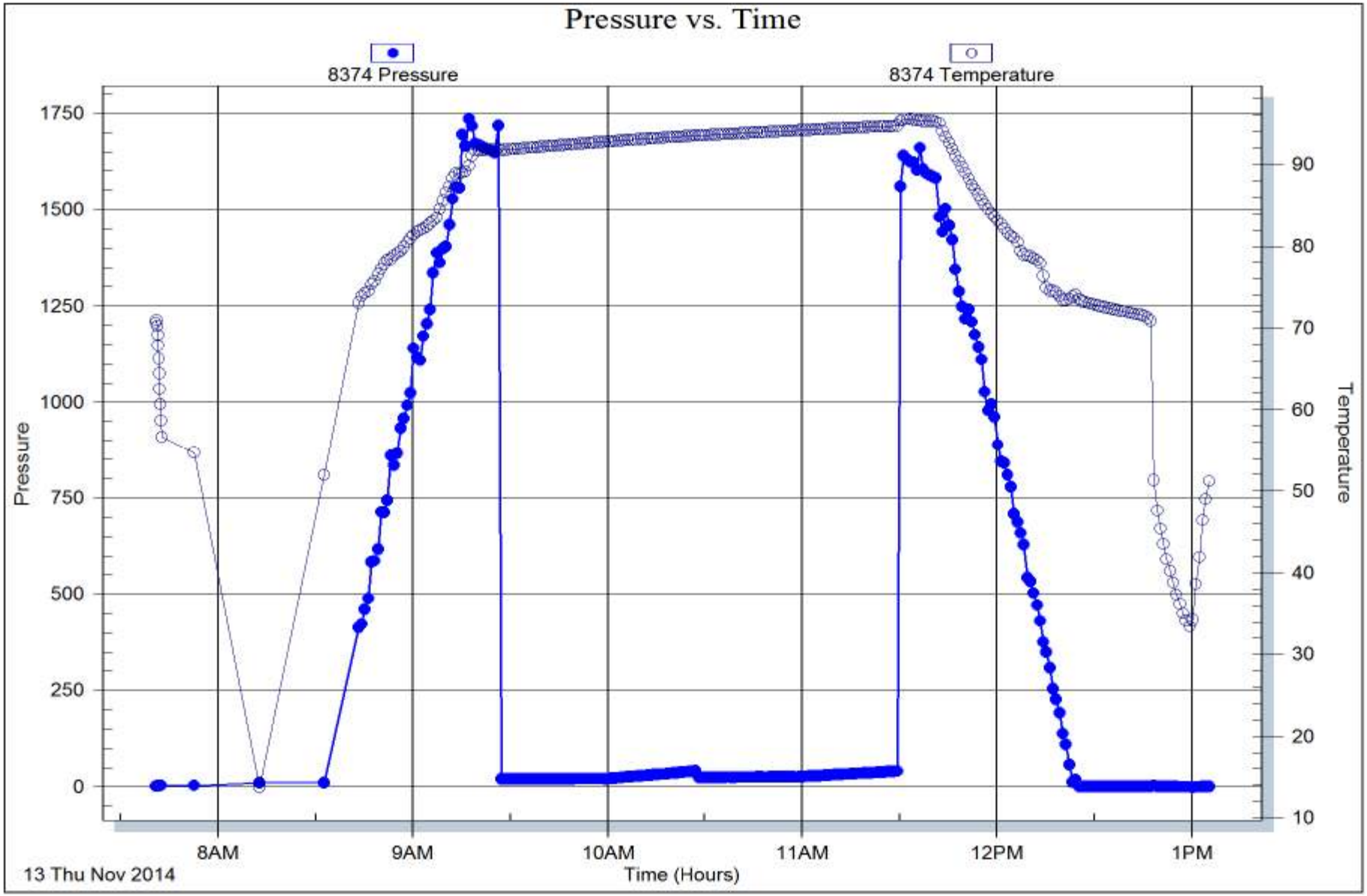
Trilobite Testing, Inc Ref. No: 60899 Printed: 2014.11.14 @ 11:57:14

Serial #: 8652 Below (Straddle) Farmer Inc Weigel Unit #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60899 Printed: 2014.11.14 @ 11:57:14

Serial #: 8374 **Inside** John O Farmer Inc Weigel Unit #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60899 Printed: 2014.11.14 @ 11:57:14

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

Weigel Unit #1

36-8s-18w Rooks,KS

Start Date: 2014.11.13 @ 13:26:01
End Date: 2014.11.13 @ 19:06:55
Job Ticket #: 60900 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.14 @ 11:56:10

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60900 **DST#: 3**

Test Start: 2014.11.13 @ 13:26:01

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:19:56
Time Test Ended: 19:06:55

Test Type: Conventional Straddle (Reset)
Tester: Ray Schw ager
Unit No: 70

Interval: 3417.00 ft (KB) To 3478.00 ft (KB) (TVD)
Total Depth: 3540.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

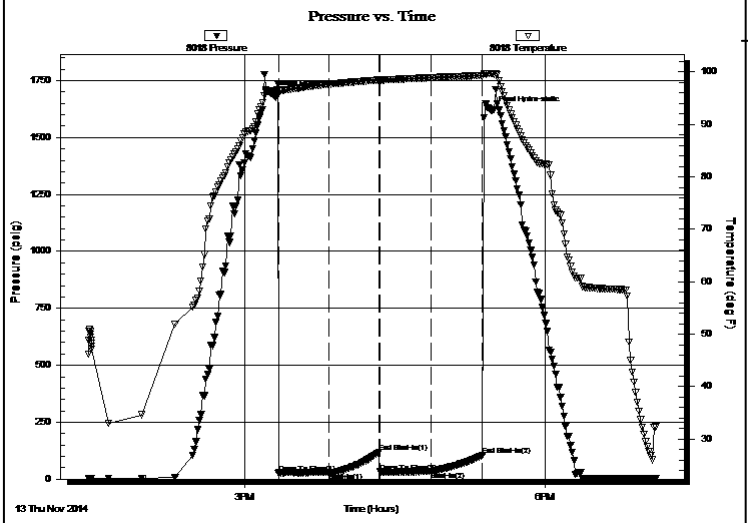
Reference Elevations: 2027.00 ft (KB)
2022.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: 33.45 psig @ 3435.00 ft (KB)
Start Date: 2014.11.13 End Date: 2014.11.13
Start Time: 13:26:01 End Time: 19:06:55

Capacity: 8000.00 psig
Last Calib.: 2014.11.13
Time On Btm: 2014.11.13 @ 15:16:26
Time Off Btm: 2014.11.13 @ 17:27:56

TEST COMMENT: 30-IFP-w k bl thru-out 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	1689.71	96.37	Initial Hydro-static
4	26.64	95.88	Open To Flow (1)
34	29.69	97.66	Shut-In(1)
64	118.40	98.46	End Shut-In(1)
65	31.43	98.44	Open To Flow (2)
95	33.45	98.92	Shut-In(2)
126	105.37	99.32	End Shut-In(2)
132	1618.72	99.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /show of oil	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 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60900 **DST#: 3**

Test Start: 2014.11.13 @ 13:26:01

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:19:56
Time Test Ended: 19:06:55

Test Type: Conventional Straddle (Reset)
Tester: Ray Schw ager
Unit No: 70

Interval: 3417.00 ft (KB) To 3478.00 ft (KB) (TVD)
Total Depth: 3540.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

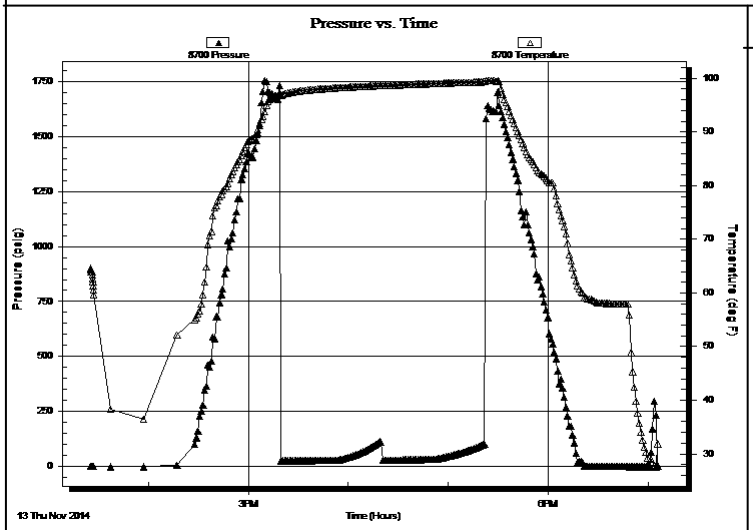
Reference Elevations: 2027.00 ft (KB)
2022.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8700 **Outside**

Press@RunDepth: psig @ 3435.00 ft (KB)
Start Date: 2014.11.13 End Date: 2014.11.13
Start Time: 13:25:16 End Time: 19:06:10

Capacity: 8000.00 psig
Last Calib.: 2014.11.13
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /show of oil	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 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60900 **DST#: 3**

Test Start: 2014.11.13 @ 13:26:01

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:19:56
Time Test Ended: 19:06:55

Test Type: Conventional Straddle (Reset)
Tester: Ray Schw ager
Unit No: 70

Interval: 3417.00 ft (KB) To 3478.00 ft (KB) (TVD)
Total Depth: 3540.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

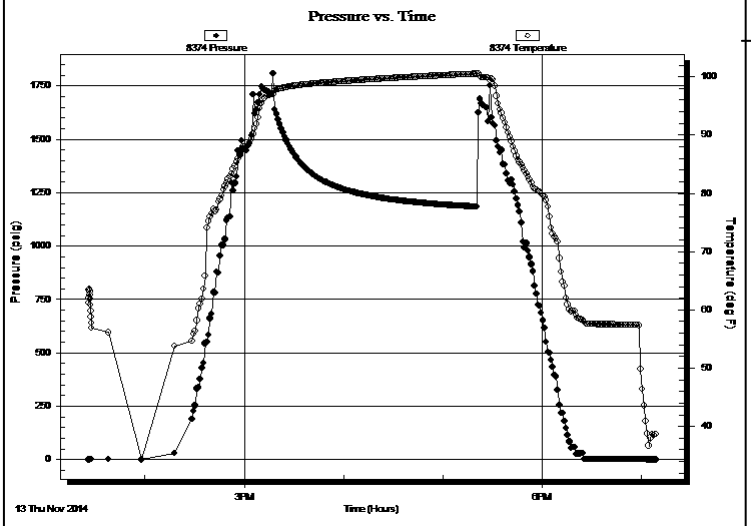
Reference Elevations: 2027.00 ft (KB)
2022.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8374 **Below (Straddle)**

Press@RunDepth: psig @ 3507.00 ft (KB)
Start Date: 2014.11.13 End Date: 2014.11.13
Start Time: 13:25:54 End Time: 19:08:18

Capacity: 8000.00 psig
Last Calib.: 2014.11.13
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /show of oil	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60900 **DST#: 3**

Test Start: 2014.11.13 @ 13:26:01

Tool Information

Drill Pipe:	Length:	3294.00 ft	Diameter:	3.80 inches	Volume:	46.21 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:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:		45000.00 lb
					Total Volume:	46.80 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight:	Initial	39000.00 lb
Depth to Top Packer:		3417.00 ft						Final	39000.00 lb
Depth to Bottom Packer:		3478.00 ft							
Interval betw een Packers:		61.00 ft							
Tool Length:		147.00 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			3397.00		
Shut In Tool	5.00			3402.00		
Hydraulic tool	5.00			3407.00		
Packer	5.00			3412.00	21.00	Bottom Of Top Packer
Packer	5.00			3417.00		
Stubb	1.00			3418.00		
Perforations	17.00			3435.00		
Recorder	0.00	8018	Inside	3435.00		
Recorder	0.00	8700	Outside	3435.00		
Blank Spacing	34.00			3469.00		
Perforations	5.00			3474.00		
Blank Off Sub	1.00			3475.00		
Blank Spacing	3.00			3478.00	61.00	Tool Interval
Packer	5.00			3483.00		
Perforations	24.00			3507.00		
Recorder	0.00	8374	Below	3507.00		
Blank Spacing	33.00			3540.00		
Bullnose	3.00			3543.00	65.00	Bottom Packers & Anchor
Total Tool Length:	**147.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665-2635

ATTN: John O FarmerIV,Aust

36-8s-18w Rooks,KS

Weigel Unit #1

Job Ticket: 60900 **DST#: 3**

Test Start: 2014.11.13 @ 13:26:01

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:	72.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

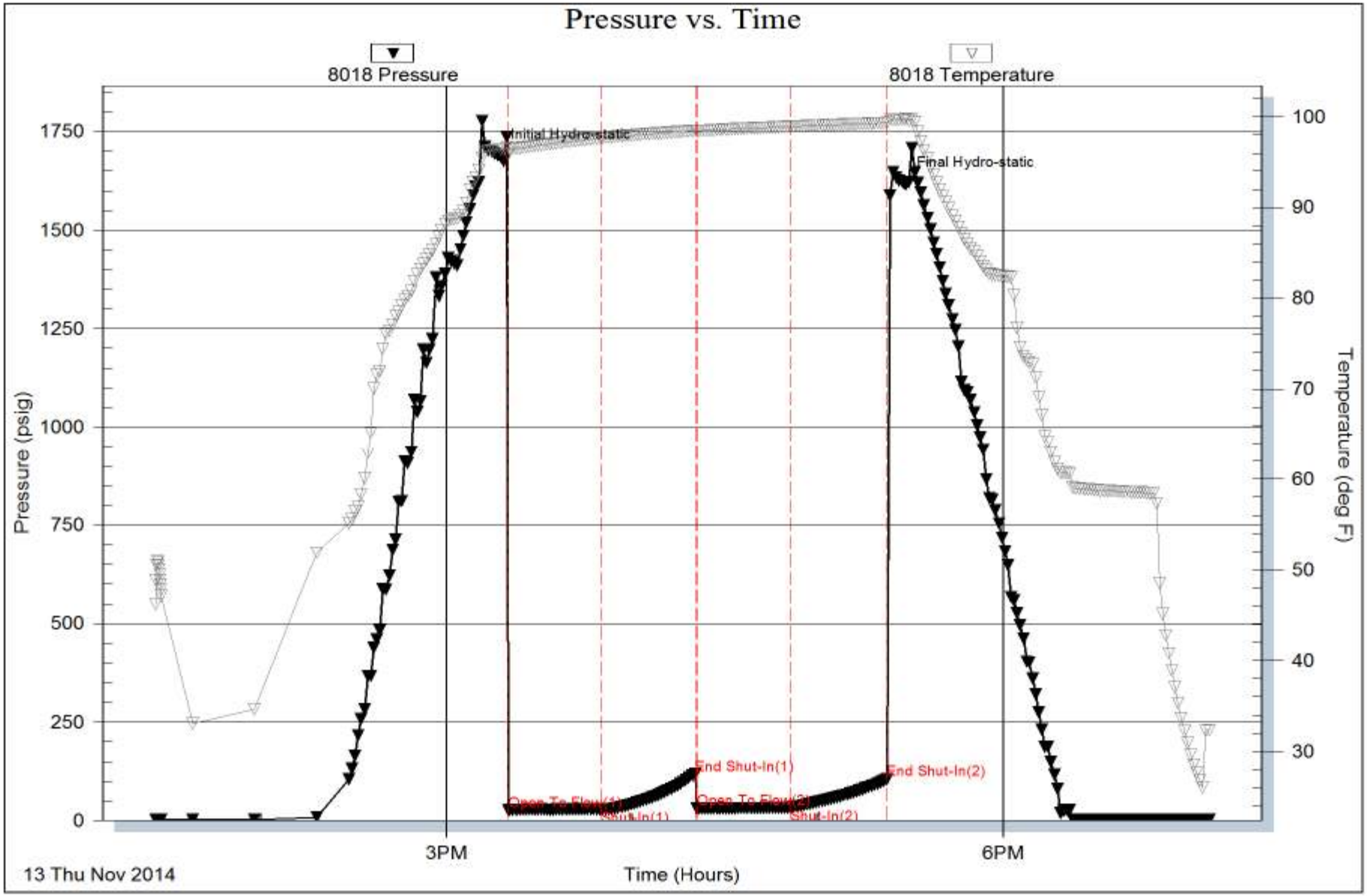
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w/show of oil	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

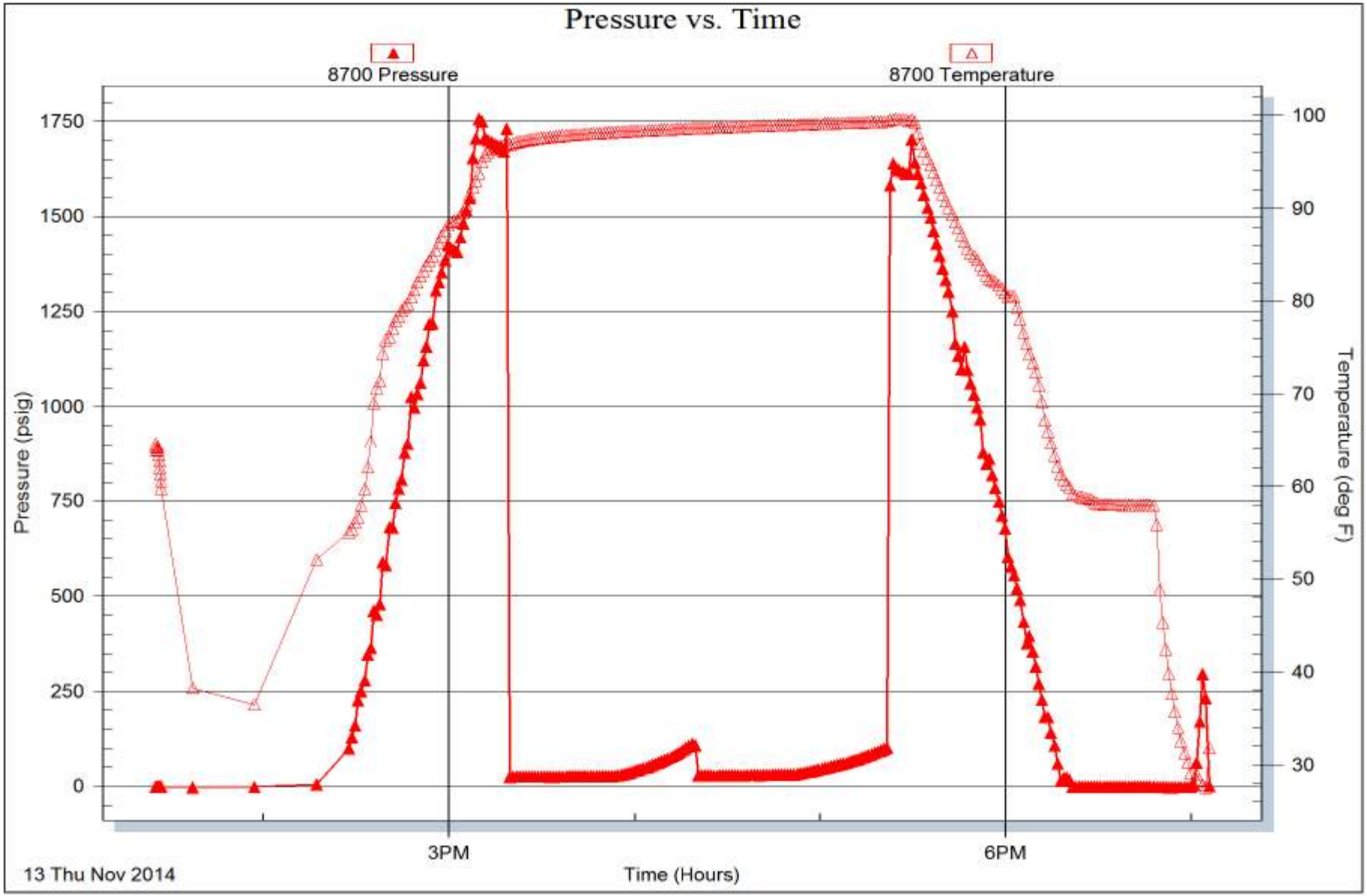
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8018 **Inside** John O Farmer Inc Weigel Unit #1 DST Test Number: 3



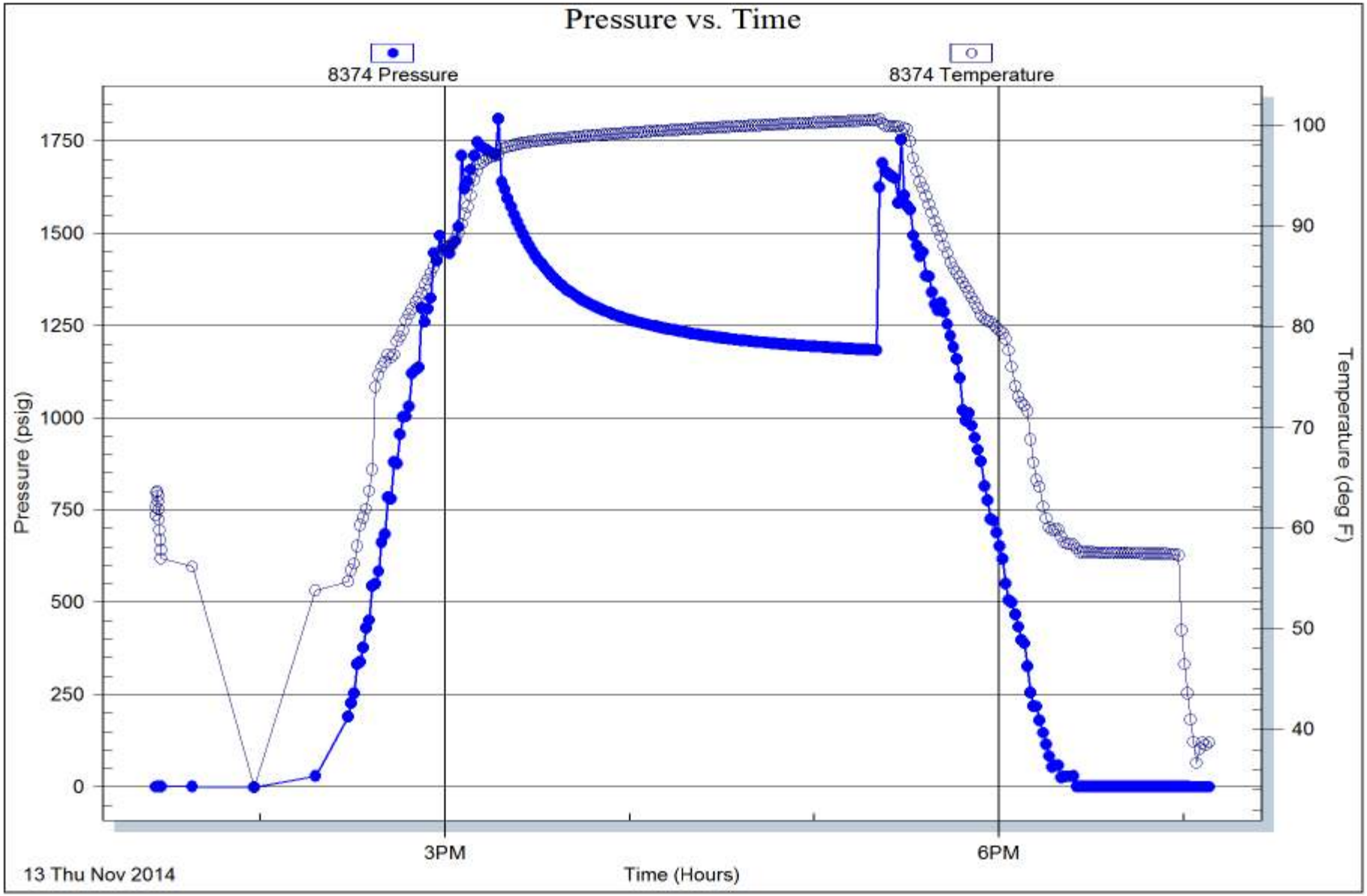
Trilobite Testing, Inc Ref. No: 60900 Printed: 2014.11.14 @ 11:56:11

Serial #: 8700 **Outside** John O Farmer Inc Weigel Unit #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 60900 Printed: 2014.11.14 @ 11:56:11

Serial #: 8374 Below (Straddle) D Farmer Inc Weigel Unit #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 60900 Printed: 2014.11.14 @ 11:56:11

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 60898

Well Name & No. Weigel Unit #1 Test No. 1 Date 11-12-14

Company John O. Farmer Inc Elevation 2027 KB 2022 GL

Address PO Box 352 Russell, Ks 67665-2635

Co. Rep / Geo. Austin Klaus Rig WW rig 6

Location: Sec. 36 Twp. 8S Rge. 18W Co. Rooks State Ks

Interval Tested 3338-3416 Zone Tested LKC H-K

Anchor Length 78 Drill Pipe Run 3205 Mud Wt. 8.9

Top Packer Depth 3333 Drill Collars Run 120 Vis 63

Bottom Packer Depth 3338 Wt. Pipe Run — WL 8

Total Depth 3416 Chlorides 2500 ppm System LCM 10#

Blow Description IFP - Weak To Strong in 15 min
ISIP - No Blow
FFP - Weak To A Good Blow 1/4" To 8" Blow
FSIP - No Blow

Rec 60	Feet of MW w/show of oil	%gas	%oil 75	%water 25	%mud	
Rec 375	Feet of WATER	%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 435 BHT 99 Gravity — API RW .25 @ 82 °F Chlorides 52000 ppm

(A) Initial Hydrostatic 1613	☑ Test 1150	T-On Location 0915	
(B) First Initial Flow 35	☐ Jars	T-Started 1010	
(C) First Final Flow 138	☐ Safety Joint	T-Open 1150	
(D) Initial Shut-In 295	☐ Circ Sub	T-Pulled 1450	
(E) Second Initial Flow 139	☐ Hourly Standby	T-Out 1647	
(F) Second Final Flow 220	☑ Mileage 66 RT 102.30	Comments	
(G) Final Shut-In 292	☐ Sampler		
(H) Final Hydrostatic 1556	☐ 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 1252.30	
Final Shut-In 60	☐ Accessibility	MP/DST Disc't	
	Sub Total 1252.30		

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

4/10

Test Ticket

NO. 60899

Well Name & No. Weigel Unit #1 Test No. 2 Date 11-13-14

Company John O. Farmer, Inc Elevation 2027 KB 2022 GL

Address PO Box 352 Russell, Ks 67665-2635

Co. Rep / Geo. Austin Klaus Rig WW rig 6

Location: Sec. 36 Twp. 8S Rge. 18W Co. Rooks State Ks

Interval Tested 3417-3462 Zone Tested Arbuckle

Anchor Length 45 Drill Pipe Run 3297 Mud Wt. 9.1

Top Packer Depth 3417-3412 Drill Collars Run 120 Vis 72

Bottom Packer Depth 3462 Wt. Pipe Run — WL 7.6

Total Depth 3540 Chlorides 2500 ppm System LCM 8#

Blow Description IFP - Weak Blow thru-out 1/4" To 1/2" Blow

ISIP - No Blow

FFP - No Blow

FSIP - No Blow

Rec 20	Feet of Mud	%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	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 96 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	1651	☑ Test	1150	T-On Location	0710
(B) First Initial Flow	21	☐ Jars		T-Started	0740
(C) First Final Flow	22	☐ Safety Joint		T-Open	0930
(D) Initial Shut-In	38	☐ Circ Sub		T-Pulled	1130
(E) Second Initial Flow	23	☐ Hourly Standby		T-Out	1301
(F) Second Final Flow	25	☑ Mileage 66RT	102.30	Comments	
(G) Final Shut-In	37	☐ Sampler			
(H) Final Hydrostatic	1623	☑ Straddle	600	☐ 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	1852.30
Final Shut-In	30	☐ Accessibility		MP/DST Disc't	
		Sub Total	1852.30		

Approved By Our Representative Ray Schwager Thank you

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 60900

Well Name & No. Weigel Unit #1 Test No. 3 Date 11-13-14

Company John O. Farmer, Inc Elevation 2027 KB 2032 GL

Address PO Box 352 Russell, Ks 67665-2635

Co. Rep / Geo. Austin Klaus Rig WW #6

Location: Sec. 36 Twp. 8S Rge. 18W Co. Rooks State Ks

Interval Tested 3417-3478 Zone Tested Arbuckle

Anchor Length 61 Drill Pipe Run 3294 Mud Wt. 9.1

Top Packer Depth 3417-3412 Drill Collars Run 120 Vis 72

Bottom Packer Depth 3478 Wt. Pipe Run — WL 7.6

Total Depth 3540 Chlorides 2500 ppm System LCM 8#

Blow Description IFP - Weak Blow ¼" To surface Blow

ISIP - No Blow

FFP - No Blow

FSIP - No Blow

Rec 5	Feet of Mud w/show of oil	%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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 101 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	1689	☑ Test	1150	T-On Location	1301
(B) First Initial Flow	26	☐ Jars		T-Started	1325
(C) First Final Flow	29	☐ Safety Joint		T-Open	1520
(D) Initial Shut-In	118	☐ Circ Sub		T-Pulled	1720
(E) Second Initial Flow	31	☐ Hourly Standby		T-Out	1906
(F) Second Final Flow	33	☑ Mileage		Comments	
(G) Final Shut-In	105	☐ Sampler			
(H) Final Hydrostatic	1618	☑ Straddle	600	☐ 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	1750
Final Shut-In	30	☐ Accessibility		MP/DST Disc't	
		Sub Total	1750		

Approved By Our Representative Ray Schwagel 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:	**Weigel Unit #1**		
Location:	**Rooks County**		
License Number:	**API #15-163-24,273-0000**	**Region:**	**Kansas**
Spud Date:	**11/8/14**	**Drilling Completed:**	**11/13/14**
Surface Coordinates:	**Section 36 - Township 8 South - Range 8 West** **620' FNL 115' FWL**		
Bottom Hole Coordinates:	**Vertical well with minimal deviation, same as above**		
Ground Elevation (ft):	**2,022'**	**K.B. Elevation (ft):**	**2,027'**
Logged Interval (ft):	**2,900'** **To: RTD**	**Total Depth (ft):**	**3,540'**
Formation:	**LKC, Arbuckle**		
Type of Drilling Fluid:	**Chemical (Andy's)**		

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OPERATOR

Company: **John O. Farmer, Inc**
Address: **370 W. Wichita Ave**
Russell, KS 67665

Comments

The Weigel Unit #1 well was drilled by WW Rig #6 (Tool Pusher: Mark Biggie).

The location for the Weigel Unit #1 well was found via 3-D seismic survey. Geologic samples were collected and evaluated from 2,900'-3,540'. Structurally, the Weigel Unit #1 ran 6' high to our correlation well, Russ #1, at the Lansing. A bottom-hole test was conducted (Lansing H-K), yielding negative results. The Arbuckle horizon was picked 41' high to the comparison well. Upon completion of the logging operation two straddle tests were conducted in the Arbuckle, yielding negative results. Upon completion of the drill stem tests, the decision was made to plug and abandon the Weigel Unit #1 well on 11/14/14.

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
- E Earthy
- Fenest
- F Fracture
- Inter
- Moldic
- Organic
- P Pinpoint
- V Vuggy

SORTING
- W Well
- M Moderate
- P Poor

ROUNDING
- R Rounded
- r Subrnd
- a Subang
- A Angular

OIL SHOW
- Even

- Spotted
- Ques
- D Dead

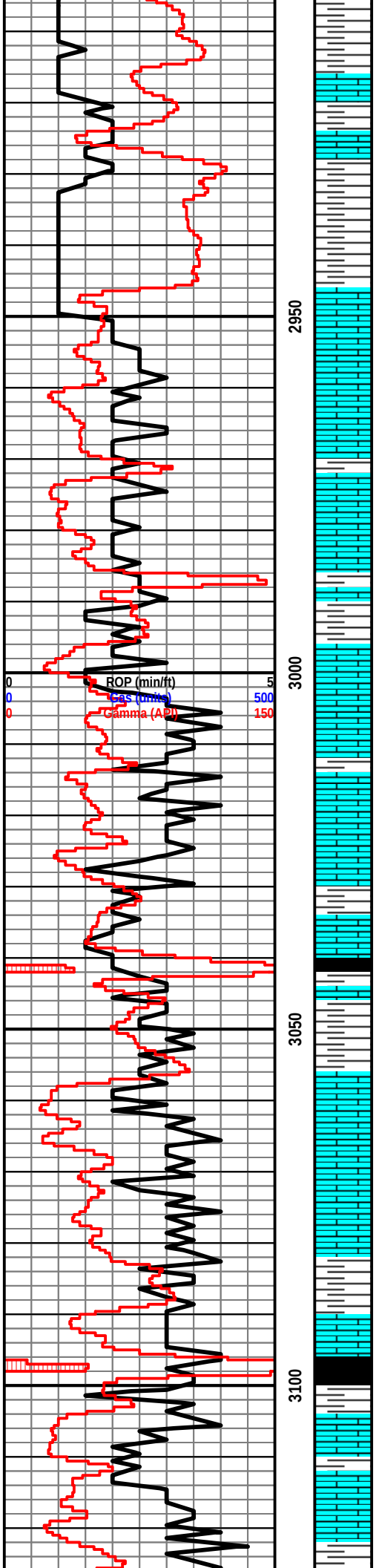
INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall

Curve Track 1	Depth	Lithology	Oil Shows	Geological Descriptions	DST/Mud/Survey
ROP (min/ft) 0–5 Gas (units) 0–500 Gamma (API) 0–150	2800 2850 2900			The open-hole logging was performed by Mr. Gus Pfannenstiel with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density/Compensated Neutron, Dual Induction, and Microresistivity logs. Formation tops and datums from the open-hole logs include the following:	Tester: Ray Schwager

Anhydrite	1360	667
Topeka	2946	-919
Heebner	3157	-1130
Toronto	3180	-1153
Lansing	3198	-1171
B/KC	3419	-1392
Arbuckle	3451	-1424
Reagan		
RTD		
LTD	3537	-1510

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



Ls: ala

Sh: drk gry

Topeka 2950' (-923)

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

Sh: lt gry

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

Sh: lt gry-drk gry

Ls: tan-gry, fn-sub xln, mostly DNS, no visible porosity, scat chalk

Sh: lt gry-drk gry

Ls: tan-lt gry, fn xln, poor int xln porosity, scat chert-off wh

Sh: drk gry-blk

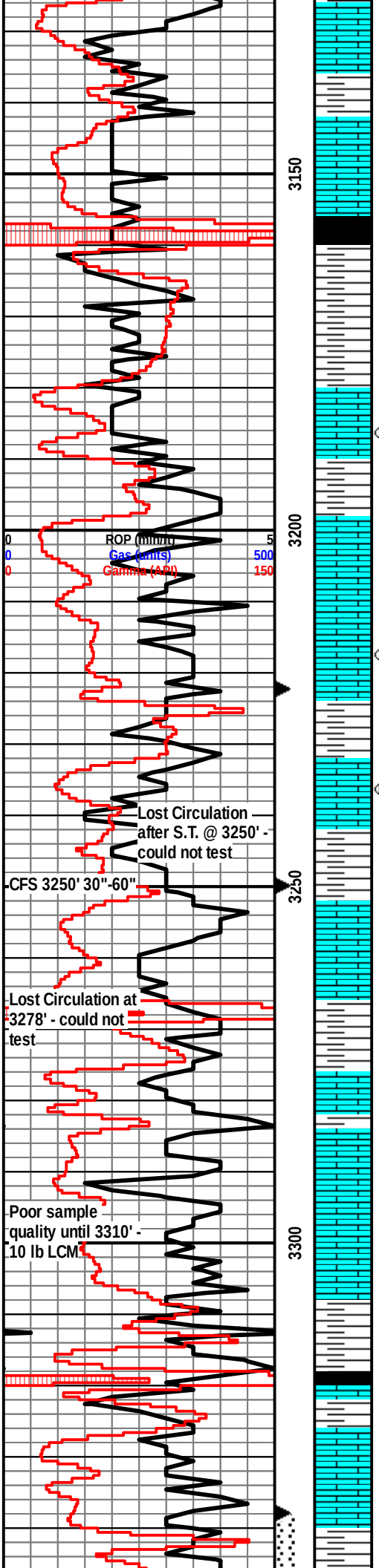
Ls: tan-lt gry, fn xln, scat int xln porosity, chalky, scat fossil

Ls: ala

Ls: tan-lt gry, fn xln, poor pp vuggy porosity, scat chert-off wh

Sh: drk gry-blk, carb

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



Sh: drk gry

Ls: off wh-tan, fn xln, scat int xln & pp vuggy porosity, scat oil st, SSFO, sl odor

Heebner 3161' (-1134)

Sh: blk, carb, fissile

Sh: drk gry-brn

Toronto 3184' (-1157)

Ls: off wh-tan, fn xln, scat pp vuggy porosity, scat dead oil st, NSFO, no odor

Sh: lt gry-drk gry

Lansing 3204' (-1177)

Ls: off wh-tan, fn xln, scat pp vuggy porosity, NSFO

Ls: off wh-tan, fn xln, poor int xln & pp vuggy porosity, fair oil st, VSSFO, sl odor, scat chert-off wh

Sh: drk gry

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

Sh: drk gry-blk

Ls: off wh-tan, fn xln, fossil, poor int xln porosity, DNS, NSFO

Sh: drk gry-blk

Sh: lt gry-drk gry-brn

Ls: off wh-tan, fn xln, scat int xln & pp vuggy porosity, scat oil st, VSSFO, sl odor

Ls: off wh-tan, fn xln, fair int xln porosity, mostly barren, NSFO

Sh: drk gry

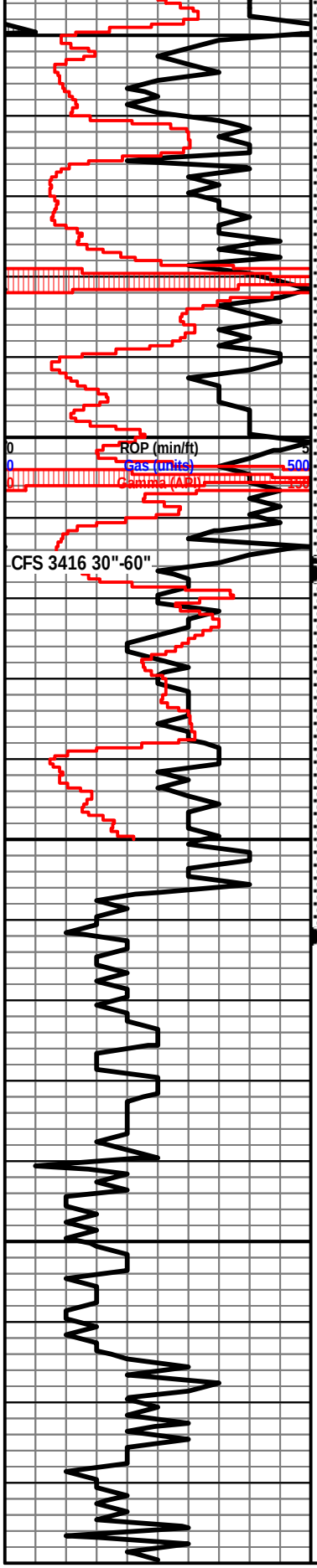
Sh: drk gry-blk

Ls: off wh-tan, fn xln, scat int xln porosity, scat chert-off wh, NSFO

Ls: off wh-tan, fn xln, scat int xln porosity, hvy chert-off wh, chalky, NSFO

Sh: drk gry

DST #1 3,338-3,416' (Lansing H-K)
30"-30"-60"-60"
IF: BOB in 15 minutes, no blow back
FF: weak blow built to 8"
Rec: 375' Water (Chl 52k)
60' Muddy Water (25% M, 75% Water)
FP-35-138-140-221#
SIP: 295-293#
HP: 1,614-1,557#
BHT: 99



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

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

Sh: drk gry

Sh: drk gry-blk

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

Sh: drk gry

Ls: off wh-tan, fn xln, poor int xln porosity, NSFO

BKC 3423' (1396)

Sh: drk gry-brn

Sh: lt gry-drk gry-brn

Ls: tan-brn, fn-md xln, scat int xln porosity, scat oil st, NSFO

Arbuckle 3455' (-1428)

Dolo: off wh-tan, fn-md xln, fair sucrosic xln porosity, fair oil sat, SSFO, sl-fair odor

Dolo: off wh-tan, fn-md xln, poor-fair int xln porosity, fair-good oil sat, SSFO, fair odor, hvy chert-off wh

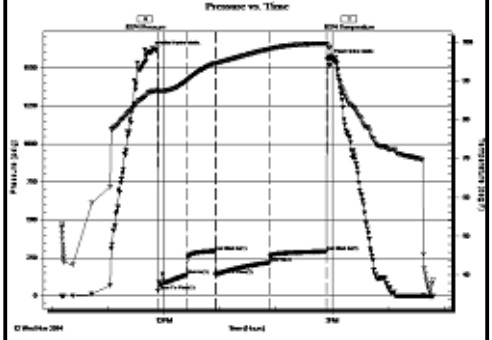
Dolo: off wh-lt brn, md xln, poor-fair int xln porosity, fair oil sat, SSFO, fair odor,

Dolo: off wh-tan, fn-crs xln, ool, poor int xln & oom porosity, fair oil sat, VSSFO, sl-fair odor

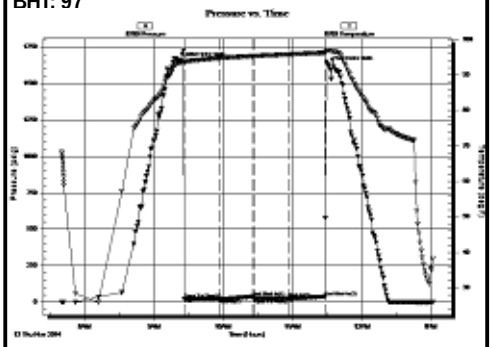
Dolo: off wh-tan, fn-crs xln, poor int xln porosity, scat oil st, NSFO, no odor

Dolo: ala

Dolo: off wh-tan, fn-md xln, poor int xln porosity, hvy chert-off wh, NSFO



DST #2 3,417-3,462' (Top 11' Arbuckle)
30"-30"-30"-30"
IF: weak blow built to 1/2"
FF: no blow
Rec: 20' Mud
FP: 22-22, 23-25#
SIP: 38-38#
HP: 1,651-1,623#
BHT: 97



DST #3 3,417-3,478' (Top 27' Arbuckle)
30"-30"-30"-30"
IF: weak blow built to 1/4"
FF: no blow
Rec: 5' Mud with oil show
FP: 27-30, 31-33#
SIP: 118-105#
HP: 1,690-1,619#
BHT: 97