

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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# 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. 1597

Date	11-6-18	Sec.	17	Twp.	12	Range	13	County	<del>Lincoln</del> Russell	State	KS	On Location		Finish	9:00p
Location								Russell 9N 30W 3E 1/2U Bnto							
Lease	McAlister Unit			Well No.	1			Owner							
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	Surface							Charge To							
Hole Size	12 1/4			T.D.	221			To D.O. Farnold							
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.	10			Shoe Joint				Cement Amount Ordered 150 80/20 3/4 2/4 2/4 2/4							
Meas Line				Displace	133C										
EQUIPMENT								Common 150							
Pumptrk	20			No. Cementer	Cray			Poz. Mix							
Bulktrk				No. Driver	Ding			Gel. 3							
Bulktrk	15			No. Driver	Ding			Calcium 6							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
8 5/8 on bottom - Best Circulation								Handling 159							
Mix 150 80/20 Displace.								Mileage							
Cement Circulation								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge Surface							
								Mileage 15							
X Signature								Tax							
								Discount							
								Total Charge							

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 1062

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-12-18	17	12	13	Russell	KS		11/15/18
Lease McAllister Unit				Well No. 1		Owner	
Contractor D. Scaveney #2						To Quality Oilwell Cementing, Inc.	
Type Job DV Job						You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size 7 7/8		T.D. 3155		Charge To J.D. Farmer			
Csg. 5 1/2 15.50*		Depth 3154		Street			
Tbg. Size		Depth		City		State	
Tool DV Tool		Depth 815		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. 44		Shoe Joint 44		Cement Amount Ordered 150 cum 10% salt 5% calcium			
Meas Line		Displace 74		500 gal mud clear 20 BCL KCL			
<b>EQUIPMENT</b>				Common 150			
Pumptrk 20	No.	Cement		Poz. Mix			
Bulktrk 14	No.	Driver		Gel KCL 2 gal			
Bulktrk 9	No.	Driver		Calcium			
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Remarks:				Salt 13			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal 750 #			
Centralizers				Mud CLR 48 500 gal			
Baskets				CFL-117 or CD110 CAF 30			
D/V or Port Collar				Sand			
(5 1/2 50 to 3154) J.D. Scaveney 3110				Handling 170			
125' Circulation Pump 500 gal mud clear				Mileage			
10 BCL KCL Cement 5 1/2 with 150 SK				<b>FLOAT EQUIPMENT</b>			
Clean lines & Displace plus 150 BCL				Guide Shoe Limit Clamp			
KCL				Centralizer 36			
PWA landed @ 1800'				Baskets 2			
DWS Dent as open DV Tool				AFU Inserts DV Tool			
				Float Shoe 1			
				Latch Down 1			
				125' sunchers (25)			
				Pumptrk Charge prod string Bottom Stage			
				Mileage 13			
				Tax			
				Discount			
				Total Charge			
X Signature Ann M. Lawrence							

Thanks

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 1063

Cell 785-324-1041

Date	11-12-18	Sec.	17	Twp.	12	Range	13	County	Russell	State	KS	On Location		Finish	2:45 PM				
Location								Russell N Beaty RD 3E 1/2											
Lease	McAllister Unit			Well No.	1			Owner											
Contractor	Discovery #2			Top Stage			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	DU Job			Charge To								J.V. Farmer							
Hole Size	7 7/8			T.D.			3155			Street									
Csg.	5 1/2			Depth			City									State			
Tbg. Size				Depth			815			The above was done to satisfaction and supervision of owner agent or contractor.									
Tool	DU Tool			Shoe Joint			Cement Amount Ordered									220 # 30 QMDC 1/4 # 10			
Cement Left in Csg.				Displace			19' 1/4 BL			Common						220 # 30 QMDC			
<b>EQUIPMENT</b>																			
Pumptrk	20			No.	Cementer			2119			Poz. Mix								
Bulktrk	14			No.	Driver			[Signature]			Gel.								
Bulktrk	9			No.	Driver			[Signature]			Calcium								
<b>JOB SERVICES &amp; REMARKS</b>																			
Remarks:	Hulls																		
Rat Hole	305K			Salt															
Mouse Hole	155K			Flowseal 50#															
Centralizers	Kol-Seal																		
Baskets	Mud CLR 48																		
D/V, or Port Collar	CFL-117 or CD110 CAF 38																		
DU Tool @ 815 Plus Basket + Mouse Hole								Handling								220			
Cement 5 1/2 with 175K								Mileage											
Displace Plus Cement Circulate								<b>FLOAT EQUIPMENT</b>											
They landed @ 1200#								Guide Shoe											
<p style="font-size: 2em; opacity: 0.5;">Thanks</p>								Centralizer											
								Baskets											
								AFU Inserts											
								Float Shoe											
<p style="font-size: 2em; opacity: 0.5;">Cementing</p>								Latch Down											
								Pumptrk Charge								prod string			
<p style="font-size: 2em; opacity: 0.5;">Cementing</p>								Mileage								15			
								Tax											
								Discount											
Signature								Total Charge											



# 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 Wichita Avenue - P.O. Box 352 PO Box 763  
Russell, KS 67665 + 0352 Hays, KS 67601

Lease: McAllister Unit # 1 Location: 125 FNL - 2750 FWL  
NW/NW/NW/NE  
Section 17/ 12S/ 13W  
Russell County, KS

Loggers Total Depth: 3155' API#15- 167-24,084-00-00  
Rotary Total Depth: 3155' Elevation: 1757 GL - 1765 KB  
Commenced: 11/6/2018 Completed: 11/12/2018  
Casing: 8 5/8" @ 220.86'W/150sks Status: Oil Well  
5 1/2" @ 315'W/150sks  
DV Tool @ 815'W/175sks  
(Circulated 30sks to Pit)

### DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>841'</u>
Dakota Sand	<u>305'</u>	Shale & Lime	<u>1426'</u>
Shale	<u>324'</u>	Shale	<u>1759'</u>
Cedar Hill Sand	<u>331'</u>	Shale & Lime	<u>2067'</u>
Red Bed Shale	<u>459'</u>	Lime & Shale	<u>2937'</u>
Anhydrite	<u>803'</u>	RTD	<u>3155'</u>
Base Anhydrite	<u>841'</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.

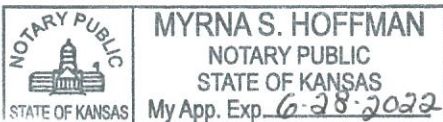
\_\_\_\_\_  
Thomas H. Alm


Subscribed and sworn to before me on 11-14-18

My Commission expires: 6-28-2022

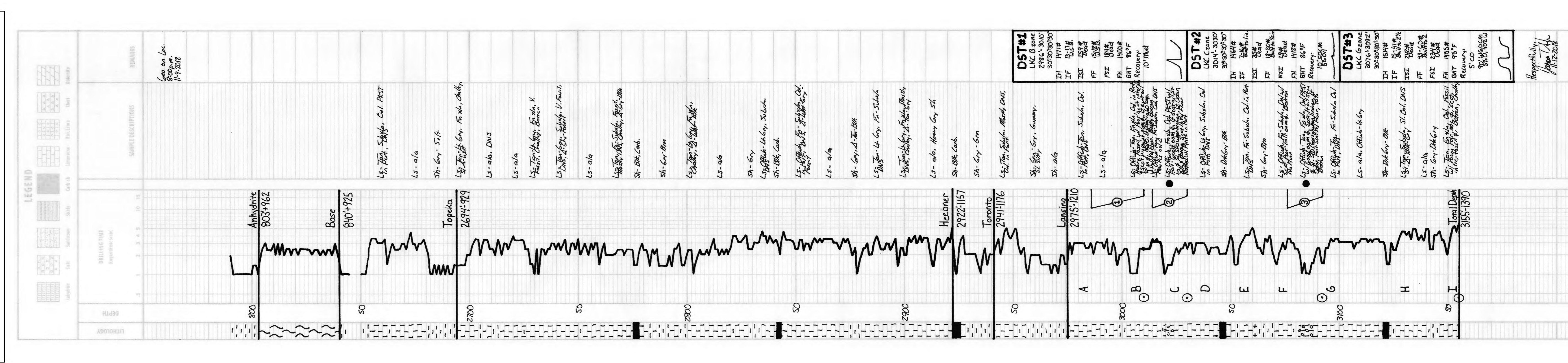
(Place stamp or seal below)

\_\_\_\_\_  
Notary Public

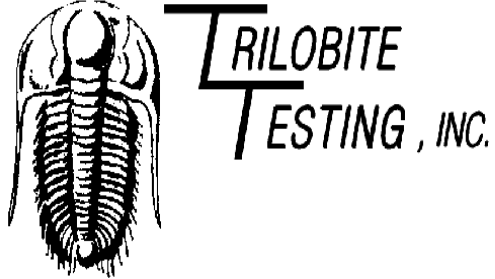


 <h2 style="text-align: center;">Geologic Report</h2> <p style="text-align: center;">Drilling Time and Sample Log</p>		<b>Operator</b> <b>John O. Farmer, Inc.</b>	
		Elevation 1765'	KB DF GL 1757'
<b>Lease</b> <b>McAllister Unit</b>		<b>No.</b> <b>1</b>	
<b>API #</b> <b>15-167-24084-0000</b>		<b>Casing Record</b> Surface 8 5/8" @ 221' Production 5 1/2" @ 3154'	
<b>Field</b> <b>Waldo Northwest</b>		<b>Electrical Surveys</b> CNL/CDL, DIL, MEL	
<b>Location</b> <b>125' FNL &amp; 2750' FWL</b>			
<b>Sec.</b> <b>17</b>	<b>Twp.</b> <b>12s</b>	<b>Rge.</b> <b>13w</b>	
<b>County</b> <b>Russell</b>		<b>State</b> <b>Kansas</b>	
<b>Formation</b>	<b>Log Tops</b>	<b>Sample Tops</b>	<b>Struct Comp</b>
Anhydrite	806' +959	803' +962	-2
Base	843' +922	840' +925	
Topeka	2692' -927	2694' -929	-6
Heebner	2920' -1155	2922' -1157	-7
Toronto	2940' -1175	2941' -1176	-7
Lansing	2975' -1210	2975' -1210	-8
B zone porosity	3001' -1236	3003' -1238	-8
C zone porosity	3017' -1252	3019' -1254	-8
G zone porosity	3080' -1315	3081' -1316	-7
Total Depth	3155' -1390	3155' -1390	
Reference Well For Structural Comparison John O. Farmer, Inc. McAllister #2 370' FNL & 1860' FEL Sec. 17 T12s R13w Russell County, Kansas			

Drilling Contractor <b>Discovery Drilling, Inc. Rig #2</b>	Commenced <b>11-5-2018</b>	Completed <b>11-12-2018</b>
Samples Saved From <b>2650'</b>	To <b>RTD</b>	
Drilling Time Kept From <b>2650'</b>	To <b>RTD</b>	
Geological Supervision From <b>2650'</b>	To <b>RTD</b>	
Displacement <b>2500'</b> Mud Type <b>Chemical</b>		
<b>Summary and Recommendations</b>		
The location for the McAllister Unit #1 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Three Drill Stem Tests were conducted. After all gathered data had been examined the decision was made to run 5 1/2 production casing to further evaluate the McAllister Unit #1 well.		
Perfs: LKC G 3080' - 3087' LKC C 3018' - 3023' LKC B 3002' - 3006'		
Respectfully Submitted,  <b>Jason T Alm</b> Hard Rock Consulting, Inc.		







## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352  
Russell, KS 67665

ATTN: Jason T Alm

### **McAllistervUnit #1**

### **17-12S-13W Russell,KS**

Start Date: 2018.11.10 @ 12:51:25

End Date: 2018.11.10 @ 18:33:55

Job Ticket #: 64798                      DST #: 1

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

Printed: 2018.11.13 @ 09:22:33

John O. Farmer, Inc.  
17-12S-13W Russell,KS  
McAllistervUnit #1  
DST # 1  
LKC "B"  
2018.11.10



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O. Farmer, Inc.  
 PO Box 352  
 Russell, KS 67665  
 ATTN: Jason T Alm

**17-12S-13W Russell,KS**  
**McAllistervUnit #1**  
 Job Ticket: 64798 **DST#: 1**  
 Test Start: 2018.11.10 @ 12:51:25

## GENERAL INFORMATION:

Formation: **LKC "B"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:55:55  
 Time Test Ended: 18:33:55  
 Interval: **2986.00 ft (KB) To 3010.00 ft (KB) (TVD)**  
 Total Depth: 3010.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brannan Lonsdale  
 Unit No: 73  
 Reference Elevations: 1765.00 ft (KB)  
 1757.00 ft (CF)  
 KB to GR/CF: 8.00 ft

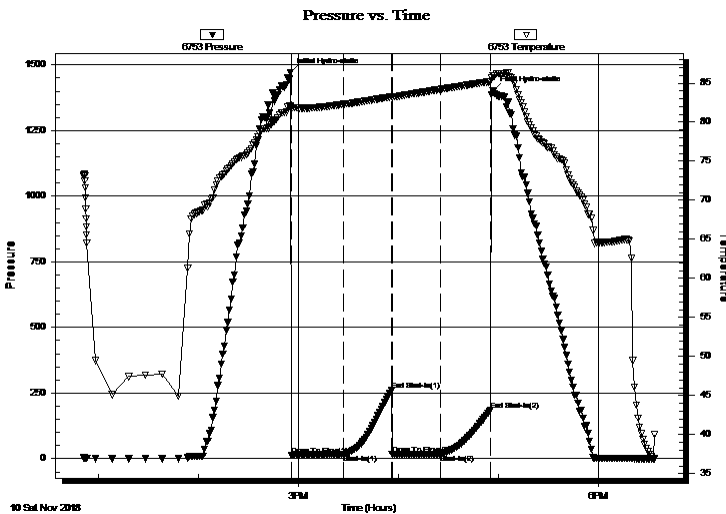
## Serial #: 6753

Inside

Press@RunDepth: 17.86 psig @ 2987.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.11.10 End Date: 2018.11.10 Last Calib.: 2018.11.10  
 Start Time: 12:51:30 End Time: 18:33:54 Time On Btm: 2018.11.10 @ 14:55:25  
 Time Off Btm: 2018.11.10 @ 16:56:55

TEST COMMENT: 30- IF- Very weak surface blow  
 30- IS- No blow  
 30- FF- Very weak surface blow  
 30- FS- No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1471.30	82.05	Initial Hydro-static
1	13.57	81.84	Open To Flow (1)
32	16.60	82.29	Shut-In(1)
61	259.48	83.25	End Shut-In(1)
61	15.79	83.16	Open To Flow (2)
90	17.86	84.20	Shut-In(2)
120	184.24	85.19	End Shut-In(2)
122	1400.60	85.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	M	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

John O. Farmer, Inc.

**17-12S-13W Russell,KS**

PO Box 352  
Russell, KS 67665

**McAllistervUnit #1**

Job Ticket: 64798

**DST#: 1**

ATTN: Jason T Alm

Test Start: 2018.11.10 @ 12:51:25

## Tool Information

Drill Pipe:	Length: 2722.00 ft	Diameter: 3.82 inches	Volume: 38.59 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 249.00 ft	Diameter: 2.75 inches	Volume: 1.83 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 40.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	2986.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 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			2967.00	
Shut In Tool	5.00			2972.00	
Hydraulic tool	5.00			2977.00	
Packer	5.00			2982.00	20.00 Bottom Of Top Packer
Packer	4.00			2986.00	
Stubb	1.00			2987.00	
Recorder	0.00	6753	Inside	2987.00	
Recorder	0.00	6771	Outside	2987.00	
Perforations	20.00			3007.00	
Bullnose	3.00			3010.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>44.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O. Farmer, Inc.

**17-12S-13W Russell,KS**

PO Box 352  
Russell, KS 67665

**McAllistervUnit #1**

Job Ticket: 64798

**DST#: 1**

ATTN: Jason T Alm

Test Start: 2018.11.10 @ 12:51:25

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M	0.073

Total Length: 10.00 ft      Total Volume: 0.073 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

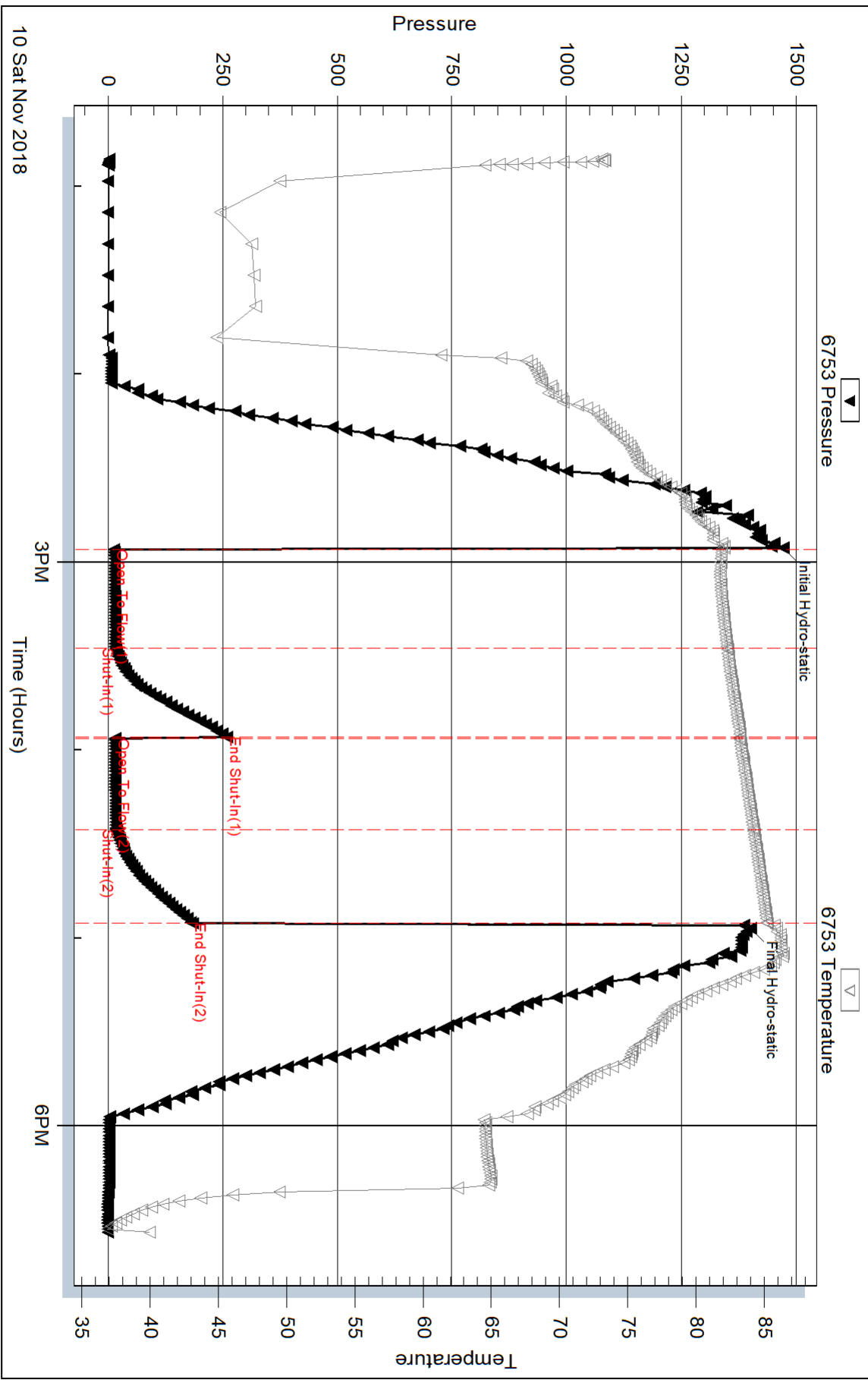
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

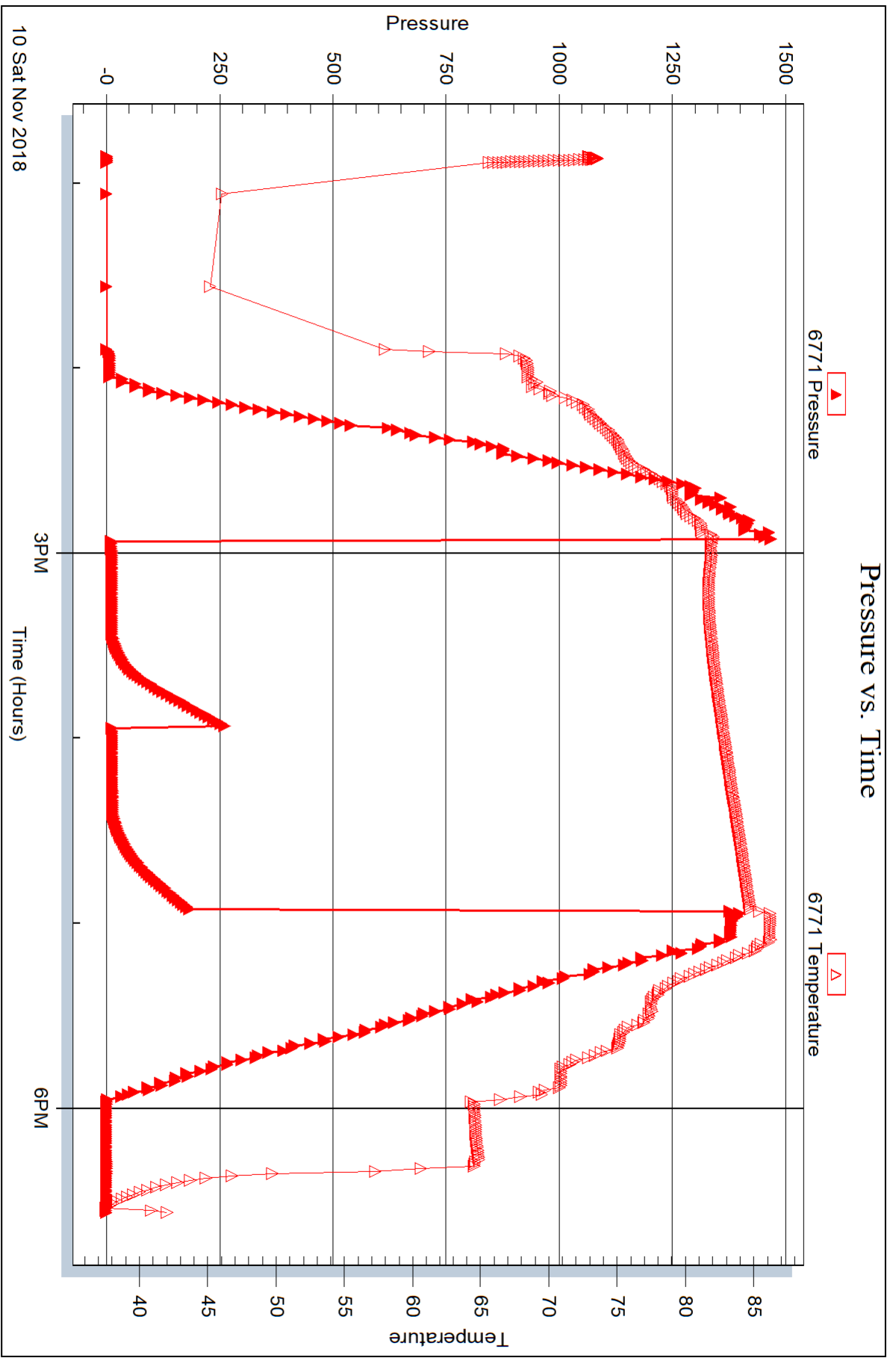


Serial #: 6771

Outside John O. Farmer, Inc.

McAllisterVUnit #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352  
Russell, KS 67665

ATTN: Jason T Alm

### **McAllisterUnit #1**

### **17-12S-13W Russell,KS**

Start Date: 2018.11.11 @ 00:00:50

End Date: 2018.11.11 @ 04:47:50

Job Ticket #: 64799                      DST #: 2

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

Printed: 2018.11.13 @ 09:22:00





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O. Farmer, Inc.

**17-12S-13W Russell,KS**

PO Box 352  
Russell, KS 67665

**McAllistervUnit #1**

ATTN: Jason T Alm

Job Ticket: 64799

**DST#: 2**

Test Start: 2018.11.11 @ 00:00:50

## GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:22:50

Time Test Ended: 04:47:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3014.00 ft (KB) To 3030.00 ft (KB) (TVD)**

Reference Elevations: 1765.00 ft (KB)

Total Depth: 3030.00 ft (KB) (TVD)

1757.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6753**

**Inside**

Press@RunDepth: 19.59 psig @ 3015.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.11.11

End Date:

2018.11.11

Last Calib.:

2018.11.11

Start Time: 00:00:55

End Time:

04:47:49

Time On Btm:

2018.11.11 @ 01:21:50

Time Off Btm:

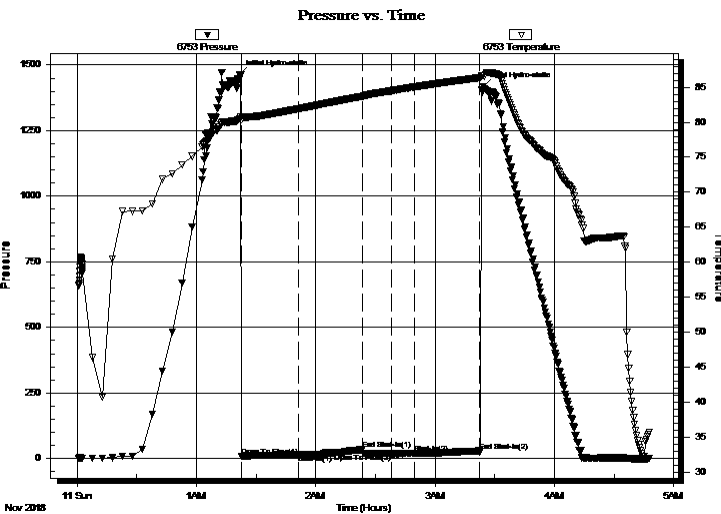
2018.11.11 @ 03:24:20

TEST COMMENT: 30- IF- Built very slow ly to 1"

30- IS- No blow

30- FF- Built very slow ly to 1/2"

30- FSI- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1464.15	80.47	Initial Hydro-static
1	7.97	80.32	Open To Flow (1)
30	15.50	81.92	Shut-In(1)
62	35.40	83.71	End Shut-In(1)
76	18.69	84.50	Open To Flow (2)
88	19.59	85.05	Shut-In(2)
121	29.34	86.36	End Shut-In(2)
123	1418.42	86.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM, 5%O 95%M	0.07

\* Recovery from multiple tests

## 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: Jason T Alm

**17-12S-13W Russell,KS**

**McAllistervUnit #1**

Job Ticket: 64799

**DST#: 2**

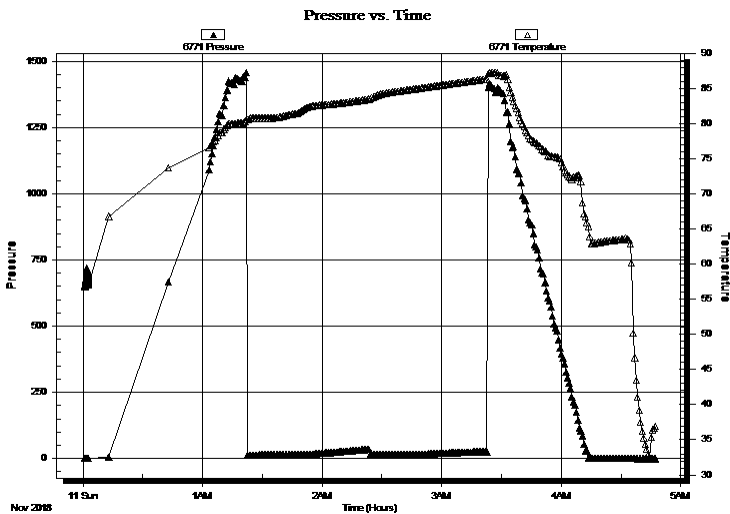
Test Start: 2018.11.11 @ 00:00:50

### GENERAL INFORMATION:

Formation: **LKC "C"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:22:50  
 Time Test Ended: 04:47:50  
 Interval: **3014.00 ft (KB) To 3030.00 ft (KB) (TVD)**  
 Total Depth: 3030.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brannan Lonsdale  
 Unit No: 73  
 Reference Elevations: 1765.00 ft (KB)  
 1757.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6771 Outside**  
 Press@RunDepth: psig @ 3015.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.11.11 End Date: 2018.11.11 Last Calib.: 2018.11.11  
 Start Time: 00:00:51 End Time: 04:47:41 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30- IF- Built very slow ly to 1"  
 30- IS- No blow  
 30- FF- Built very slow ly to 1/2"  
 30- FS- No blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM, 5%O 95%M	0.07

### 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.

**17-12S-13W Russell,KS**

PO Box 352  
Russell, KS 67665

**McAllistervUnit #1**

Job Ticket: 64799

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2018.11.11 @ 00:00:50

## Tool Information

Drill Pipe:	Length: 2753.00 ft	Diameter: 3.82 inches	Volume: 39.02 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 249.00 ft	Diameter: 2.75 inches	Volume: 1.83 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 40.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3014.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 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			2995.00	
Shut In Tool	5.00			3000.00	
Hydraulic tool	5.00			3005.00	
Packer	5.00			3010.00	20.00 Bottom Of Top Packer
Packer	4.00			3014.00	
Stubb	1.00			3015.00	
Recorder	0.00	6753	Inside	3015.00	
Recorder	0.00	6771	Outside	3015.00	
Perforations	12.00			3027.00	
Bullnose	3.00			3030.00	16.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

John O. Farmer, Inc.

**17-12S-13W Russell,KS**

PO Box 352  
Russell, KS 67665

**McAllistervUnit #1**

Job Ticket: 64799

**DST#: 2**

ATTN: Jason T Alm

Test Start: 2018.11.11 @ 00:00:50

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM, 5%O 95%M	0.073

Total Length: 10.00 ft      Total Volume: 0.073 bbl

Num Fluid Samples: 0

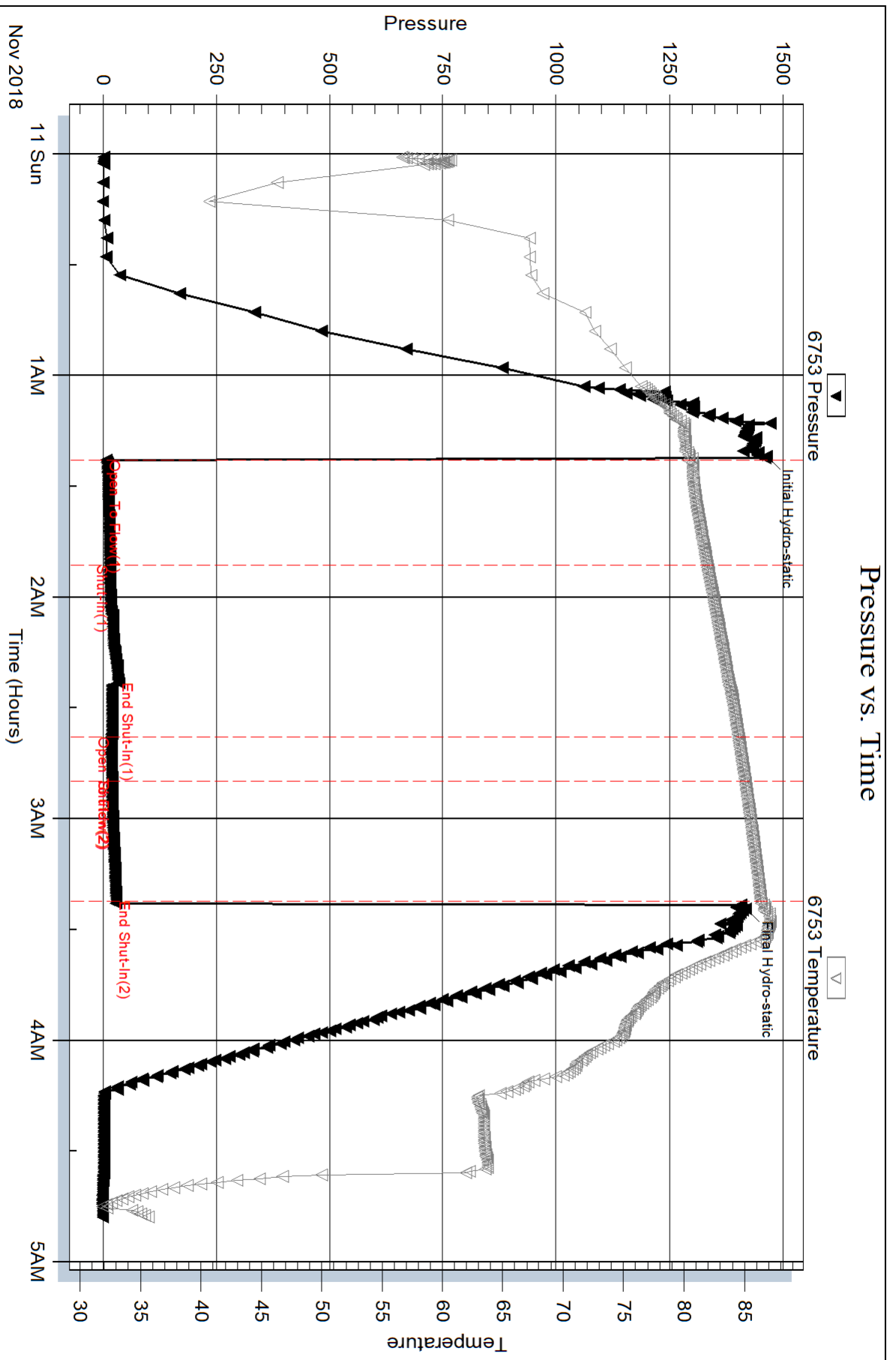
Num Gas Bombs: 0

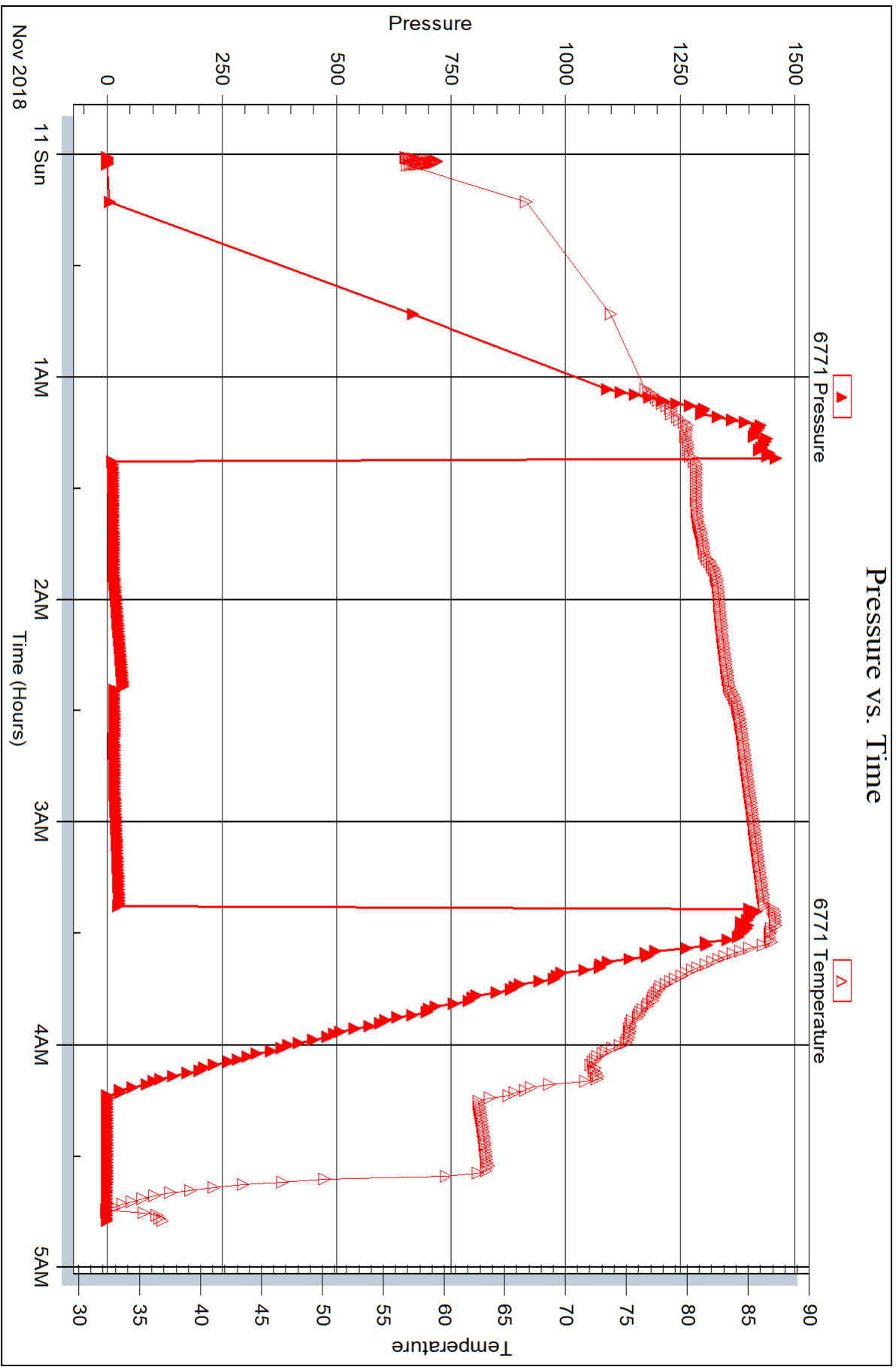
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **John O. Farmer, Inc.**

PO Box 352  
Russell, KS 67665

ATTN: Jason T Alm

### **McAllisterUnit #1**

### **17-12S-13W Russell,KS**

Start Date: 2018.11.11 @ 12:12:56

End Date: 2018.11.11 @ 17:24:56

Job Ticket #: 64800                      DST #: 3

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

Printed: 2018.11.13 @ 09:21:35



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

John O. Farmer, Inc.

**17-12S-13W Russell, KS**

PO Box 352  
Russell, KS 67665

**McAllistervUnit #1**

ATTN: Jason T Alm

Job Ticket: 64800

**DST#: 3**

Test Start: 2018.11.11 @ 12:12:56

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:38:56

Time Test Ended: 17:24:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

**Interval: 3076.00 ft (KB) To 3092.00 ft (KB) (TVD)**

Total Depth: 3092.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1765.00 ft (KB)

1757.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6753**

**Inside**

Press@RunDepth: 60.05 psig @ 3077.00 ft (KB)

Start Date: 2018.11.11

End Date:

2018.11.11

Start Time: 12:13:01

End Time:

17:24:55

Capacity: 8000.00 psig

Last Calib.: 2018.11.11

Time On Btm: 2018.11.11 @ 13:37:56

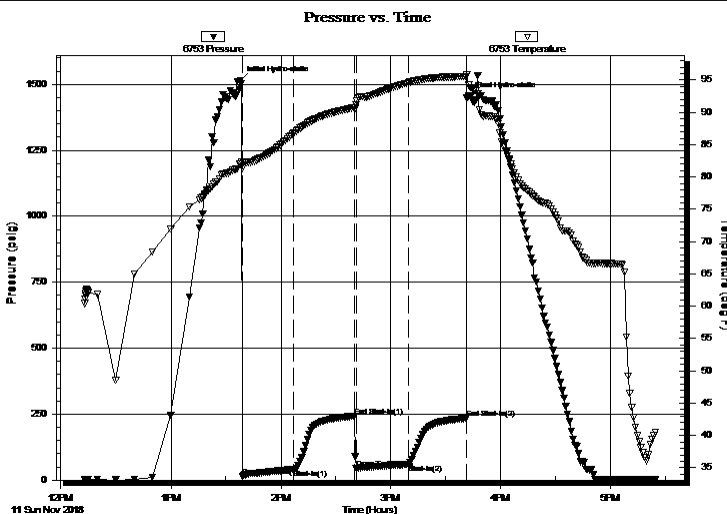
Time Off Btm: 2018.11.11 @ 15:42:26

TEST COMMENT: 30- IF- Slow ly built to 2 1/2"

30- IS- No blow

30- FF- Slow ly built to 2"

30- FSI- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1514.18	82.08	Initial Hydro-static
1	15.14	81.37	Open To Flow (1)
29	40.95	86.75	Shut-In(1)
62	241.86	90.74	End Shut-In(1)
63	43.73	91.20	Open To Flow (2)
92	60.05	94.58	Shut-In(2)
123	234.08	95.56	End Shut-In(2)
125	1454.78	94.20	Final Hydro-static

## Recovery

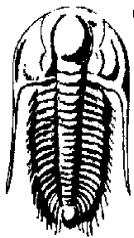
Length (ft)	Description	Volume (bbl)
90.00	WSOCM, 40%W 5%O 55%M	0.66
5.00	CO	0.04

## 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.

**17-12S-13W Russell, KS**

PO Box 352  
Russell, KS 67665

**McAllistervUnit #1**

ATTN: Jason T Alm

Job Ticket: 64800

**DST#: 3**

Test Start: 2018.11.11 @ 12:12:56

### GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:38:56

Time Test Ended: 17:24:56

**Interval: 3076.00 ft (KB) To 3092.00 ft (KB) (TVD)**

Total Depth: 3092.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Reference Elevations: 1765.00 ft (KB)

1757.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6771** Outside

Press@RunDepth: psig @ 3077.00 ft (KB)

Start Date: 2018.11.11

End Date:

2018.11.11

Start Time: 12:12:41

End Time:

17:24:46

Capacity: 8000.00 psig

Last Calib.: 2018.11.11

Time On Btm:

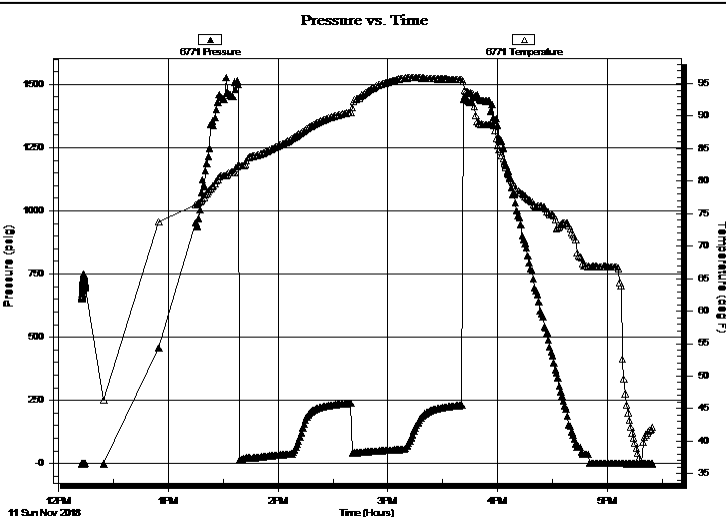
Time Off Btm:

**TEST COMMENT:** 30- IF- Slow ly built to 2 1/2"

30- ISI- No blow

30- FF- Slow ly built to 2"

30- FSI- No blow



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
90.00	WSOCM, 40%W 5%O 55%M	0.66
5.00	CO	0.04

### 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.

**17-12S-13W Russell,KS**

PO Box 352  
Russell, KS 67665

**McAllistervUnit #1**

Job Ticket: 64800

**DST#: 3**

ATTN: Jason T Alm

Test Start: 2018.11.11 @ 12:12:56

## Tool Information

Drill Pipe:	Length: 2816.00 ft	Diameter: 3.82 inches	Volume: 39.92 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 249.00 ft	Diameter: 2.75 inches	Volume: 1.83 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 41.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3076.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 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			3057.00	
Shut In Tool	5.00			3062.00	
Hydraulic tool	5.00			3067.00	
Packer	5.00			3072.00	20.00 Bottom Of Top Packer
Packer	4.00			3076.00	
Stubb	1.00			3077.00	
Recorder	0.00	6753	Inside	3077.00	
Recorder	0.00	6771	Outside	3077.00	
Perforations	12.00			3089.00	
Bullnose	3.00			3092.00	16.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

John O. Farmer, Inc.

**17-12S-13W Russell,KS**

PO Box 352  
Russell, KS 67665

**McAllistervUnit #1**

Job Ticket: 64800

**DST#: 3**

ATTN: Jason T Alm

Test Start: 2018.11.11 @ 12:12:56

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

78000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	WSOCM, 40%W 5%O 55%M	0.661
5.00	CO	0.037

Total Length: 95.00 ft      Total Volume: 0.698 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .12@50deg

Serial #: 6753

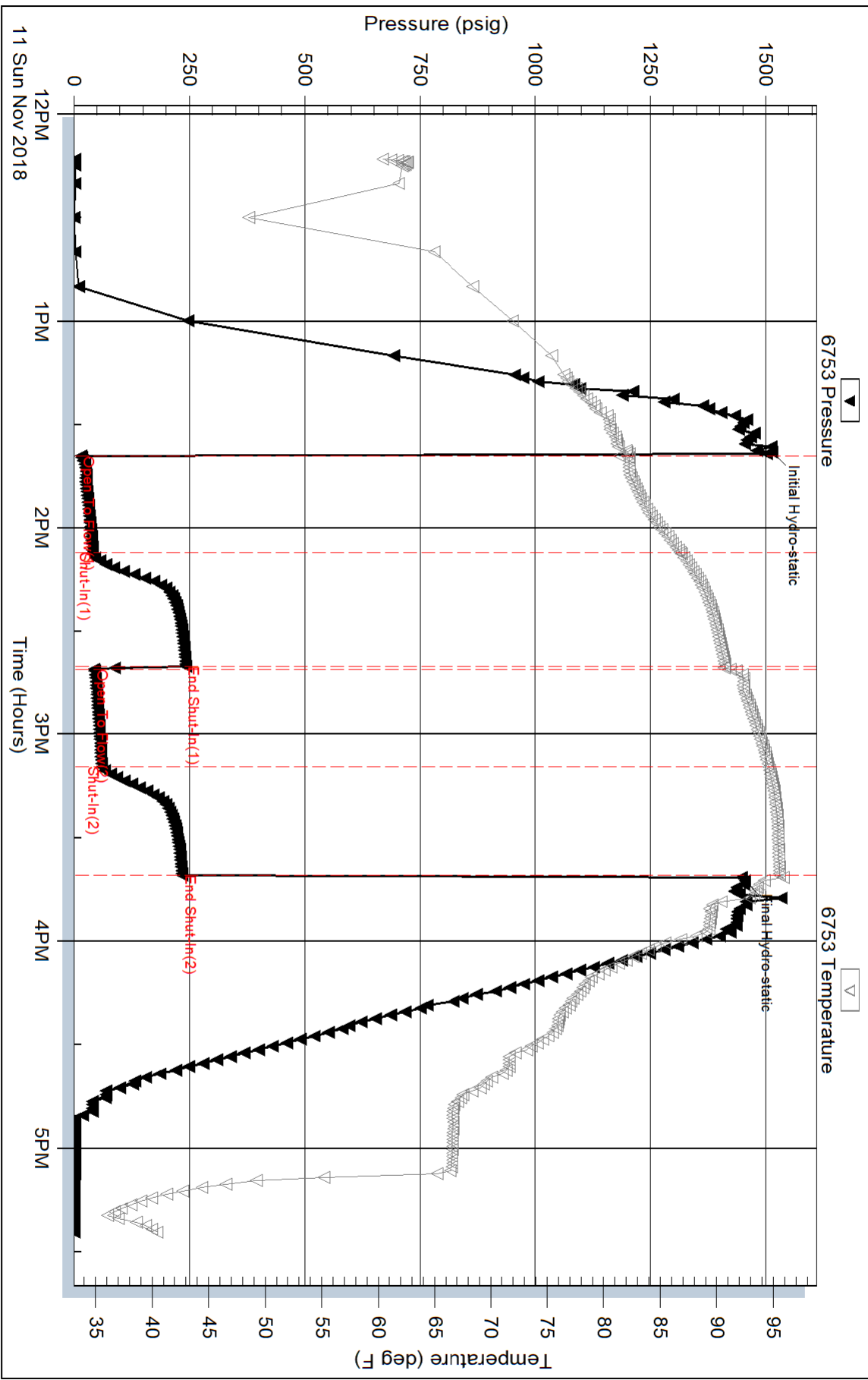
Inside

John O. Farmer, Inc.

McAllister Unit #1

DST Test Number: 3

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 64800

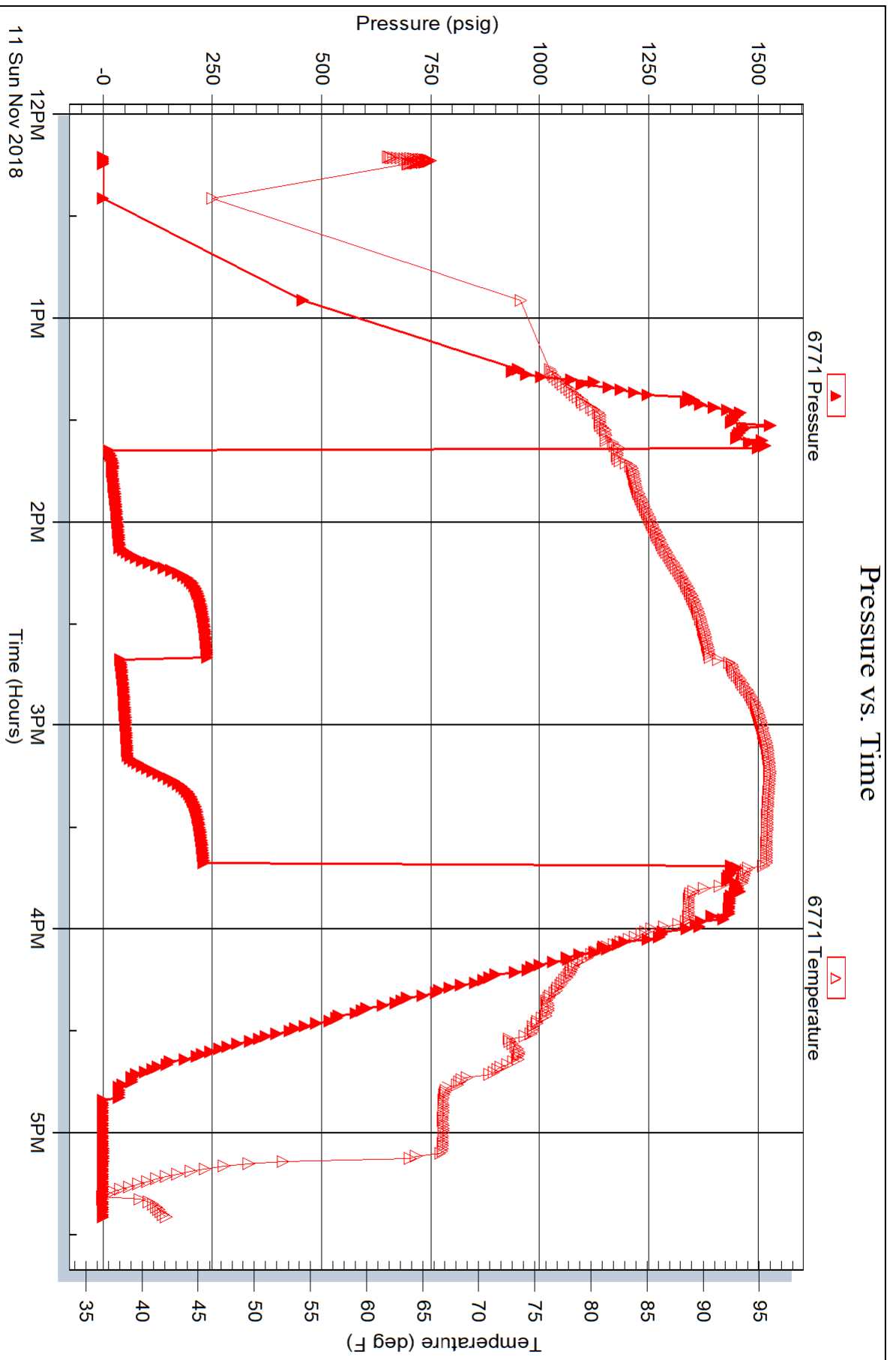
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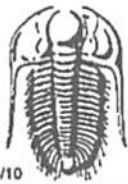
Serial #: 6771

Outside John O. Farmer, Inc.

McAllisterVUnit #1

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64798

Well Name & No. McAllister Unit #1 Test No. 1 Date 11/10/18  
 Company John O. Farmer, Inc. Elevation 1765 KB 1757 GL  
 Address 370 W. Wichita Ave, PO Box 352 Russell, KS 67665  
 Co. Rep / Geo. Jason T. Alm Rig Discovery 2  
 Location: Sec. 17 Twp 12 S Rge. B W Co. Russell State KS

Interval Tested 2986-3010 Zone Tested LKC "B"  
 Anchor Length 24' Drill Pipe Run 2722 Mud Wt. 9.1  
 Top Packer Depth 2981 Drill Collars Run          Vis 51  
 Bottom Packer Depth 2986 Wt. Pipe Run 249 WL 8.8  
 Total Depth 3010 Chlorides 9,000 ppm System LCM 1#

Blow Description IF - Very weak surface blow  
ISI - No blow  
FF - Very weak surface blow  
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

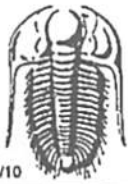
Rec Total 10 BHT 85° Gravity          API RW          @          °F Chlorides          ppm

(A) Initial Hydrostatic <u>1471</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1230</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars <u>        </u>	T-Started <u>1251</u>
(C) First Final Flow <u>17</u>	<input type="checkbox"/> Safety Joint <u>        </u>	T-Open <u>1455</u>
(D) Initial Shut-In <u>259</u>	<input type="checkbox"/> Circ Sub <u>        </u>	T-Pulled <u>1655</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby <u>        </u>	T-Out <u>1834</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>76 RT</u> 78	Comments <u>        </u>
(G) Final Shut-In <u>184</u>	<input type="checkbox"/> Sampler <u>        </u>	<u>        </u>
(H) Final Hydrostatic <u>1461</u>	<input type="checkbox"/> Straddle <u>        </u>	<input type="checkbox"/> EM Tool <u>        </u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>        </u>	<input type="checkbox"/> Ruined Shale Packer <u>        </u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>        </u>	<input type="checkbox"/> Ruined Packer <u>        </u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>        </u>	<input type="checkbox"/> Extra Copies <u>        </u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>        </u>	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility <u>        </u>	Total <u>1128</u>
	Sub Total <u>1128</u>	MP/DST Disc't <u>        </u>

Approved By          Our Representative Brannan Lousdale

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. 64799

Well Name & No. McAllister Unit #1 Test No. 2 Date 11/11/18  
 Company John O. Farney, Inc. Elevation 1765 KB 1757 GL  
 Address 370 W Wichita Ave, PO Box 352 Russell, KS 67665  
 Co. Rep / Geo. Jason T. Alm Rig Discovery #2  
 Location: Sec. 17 Twp 12 S Rge. 13 W Co. Russell State KS

Interval Tested 3014-3030 Zone Tested LKC "C"  
 Anchor Length 16' Drill Pipe Run 2753 Mud Wt. 9.1  
 Top Packer Depth 3009 Drill Collars Run — Vis 51  
 Bottom Packer Depth 3014 Wt. Pipe Run 249 WL 8.8  
 Total Depth 3030 Chlorides 4,000 ppm System LCM 1#

Blow Description IF - Built very slowly to 1"  
PSI - No blow  
FP - Built very slowly to 0.5"  
ESI - No blow

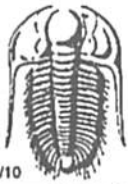
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>50CM</u>		<u>5</u>		<u>85</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 86° Gravity 32 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1464</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1/10</u> <u>2350</u>
(B) First Initial Flow <u>8</u>	<input type="checkbox"/> Jars <u>—</u>	T-Started <u>0010</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>0129</u>
(D) Initial Shut-In <u>35</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>0329</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>0454</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>28 RT</u> <u>78</u>	Comments <u>—</u>
(G) Final Shut-In <u>29</u>	<input type="checkbox"/> Sampler <u>—</u>	<input type="checkbox"/> EM Tool <u>—</u>
(H) Final Hydrostatic <u>1418</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1128</u>
	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1128</u>	

Approved By — Our Representative Brannan Lonsdale

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. 64800

4/10

Well Name & No. McAllister Unit #1 Test No. 3 Date 11/11/18  
 Company John O. Farmer, Inc. Elevation 1765 KB 1757 GL  
 Address 370 W. Wichita Ave., PO Box 352 Russell, KS 67665  
 Co. Rep / Geo. Jason T. Alm Rig Discovery 2  
 Location: Sec. 17 Twp 12 S Rge. 13 W Co. Russell State KS

Interval Tested 3076-3092 Zone Tested LKC "G"  
 Anchor Length 16' Drill Pipe Run 2816 Mud Wt. 9.2  
 Top Packer Depth 3071 Drill Collars Run — Vis 47  
 Bottom Packer Depth 3076 Wt. Pipe Run 249 WL 9.0  
 Total Depth 3092 Chlorides 6,000 ppm System LCM 1#  
 Blow Description IF - slowly built to 2 1/2"  
ISI - No blow  
FF - slowly built to 2"  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>VSACKA</u>	<u>5</u>	<u>40</u>	<u>55</u>	
<u>5</u>	<u>CO</u>				

Rec Total 95' BHT 96° Gravity 37 API RW .12 @ 50° F Chlorides 78,000 ppm  
 (A) Initial Hydrostatic 1517  Test 1050 T-On Location 1158  
 (B) First Initial Flow 15  Jars — T-Started 1212  
 (C) First Final Flow 41  Safety Joint — T-Open 1338  
 (D) Initial Shut-In 242  Circ Sub — T-Pulled 1538  
 (E) Second Initial Flow 44  Hourly Standby — T-Out 1724  
 (F) Second Final Flow 60  Mileage 78 RT 78 Comments —  
 (G) Final Shut-In 234  Sampler —  
 (H) Final Hydrostatic 1455  Straddle —  
 EM Tool —  
 Ruined Shale Packer —  
 Ruined Packer —  
 Extra Packer —  
 Extra Recorder —  
 Extra Copies —  
 Day Standby —  
 Accessibility —  
 Sub Total 1128 Sub Total 0  
 Total 1128 MP/DST Disc't —

Approved By \_\_\_\_\_ Our Representative Braman Lonsdale

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