KOLAR Document ID: 1567424

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 # 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 # 35589
Name: Lighthouse Drilling, LLC
Wellsite Geologist: Austin Klaus
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 #:

12/10/2020 Spud Date or Recompletion Date
12/16/2020 Date Reached TD
02/24/2021 Completion Date or Recompletion Date

API No.: 15-111-20551-00-00
Spot Description: SE SW NW NE
SE - SW - NW - NE Sec. 6 Twp. 17 S. R. 10 ☑ East ☐ West
1190 Feet from ☑ North / ☐ South Line of Section
2105 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: Lyon
Lease Name: FINNEY Well #: 2
Field Name: Rainbow Ridge
Producing Formation: SWD (Mississippi)
Elevation: Ground: 1295 Kelly Bushing: 1307
Total Vertical Depth: 3190 Plug Back Total Depth: 3156
Amount of Surface Pipe Set and Cemented at: 226 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: 900 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Gregg Curry
Lease Name: Curry License #: 33816
Quarter SE Sec. 15 Twp. 22 S. R. 11 ☑ East ☐ West
County: Greenwood Permit #: D26554.0

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: 04/07/2021
☐ **Confidential Release Date:** 04/07/2023
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 04/07/2021

Operator Name: Farmer, John O., Inc. Lease Name: FINNEY Well #: 2

Sec. 6 Twp. 17 S. R. 10 ☑ East ☐ West County: Lyon

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

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

Name	Top	Datum
Attached	Attached	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	226	80/20 Pozmix	160	3% C.C., 2% gel
Production	7.875	5.5	14	3186	Common	120	10% Salt, 5% Gilsonite

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	-			
	-			

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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	2480	2500
		2428	2440

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	2960	2963			None (Viola)
4	2966	2970		2550	None (Viola)
4	2480	2500			Mississippi (primary interval for SWD-to be done yet)
4	2428	2440			Mississippi (secondary interval for SWD-to be done yet)

TUBING RECORD:	Size:	Set At:	Packer At:	
	2.375	2400		

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	FINNEY 2
Doc ID	1567424

All Electric Logs Run

Compensated Density Neutron
Micro Resistivity
Dual Induction
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	FINNEY 2
Doc ID	1567424

Tops

Name	Top	Datum
Mississippi	2408	(-1101)
Kinderhook	2712	(-1405)
Hunton	2854	(-1547)
Maquoketa	2888	(-1581)
Viola	2958	(-1651)
Simpson Sand	3055	(-1748)
Arbuckle	3119	(-1812)
L.T.D.	3186	(-1879)

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	FINNEY 2
Doc ID	1567424

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	226	80/20 Pozmix	160	3% C.C., 2% gel
Production	7.875	5.5	14	3186	Common	120	10% Salt, 5% Gilsonite

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Home Office P.O. Box 32 Russell, KS 67665 No. 1781

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-10 20 20	6	17	10	Lyon	Ks		6:00 pm

Location East out of Council Grove ~~[illegible]~~ 12 miles 3½S 4W ½S w into

Lease Finney Well No. A 2

Owner ~~John Former~~

Contractor Lighthouse Drilling LLC

Type Job Surface

Hole Size 12 ½ T.D. 233'

Csg. 8 5/8 Depth 225.94

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 15 Shoe Joint 15

Meas Line Displace 13.22

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.

Charge To John a former

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 160 sx 3% cc 2% gel

EQUIPMENT

Pumptrk 17 No. Cementer / Helper Tim

Bulktrk 21 No. Driver / Driver Tony

Bulktrk P.U. No. Driver / Driver David

JOB SERVICES & REMARKS

Remarks:

Ran 5 5/8 est. circulation and cemented with 160 sks

Cement did Circulate

Common	130
Poz. Mix	30
Gel.	3
Calcium	6
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	169
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	80
Tax	
Discount	
Total Charge	

X Signature

Thanks

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Home Office P.O. Box 32 Russell, KS 67665 No. 2091

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12/17/2020	6	17	10	Lyon	Kansas		2:30pm

Location Council Grove 12E 3½S 4W ½S Winto

Lease Finney Well No. 2

Owner

Contractor Lighthouse Drilling

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 Production string

Hole Size 7 7/8 T.D. 3190'

Charge To JO Farmer

Csg. 5½ Depth 3190'

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. 28' Shoe Joint 28'

Cement Amount Ordered 170 com 10% salt 5% gilsonite

Meas Line Displace 77.1

20 bbl KCL 500 gal mud clear

EQUIPMENT

Common 170

Pumptrk 17 No. Cementer Helper Tim

Poz. Mix

Bulktrk 9 No. Driver Driver Tom

Gel.

Bulktrk PU No. Driver Driver David

Calcium

JOB SERVICES & REMARKS

Hulls KCL 2 gal

Remarks:

Salt 15

Rat Hole 30 sks

Flowseal

Mouse Hole 20 sks

Kol-Seal 750 #

Centralizers # 1, 3, 5, 7, 9

Mud CLR 48 500 gal

Baskets # 11

CFL-117 or CD110 CAF 38

D/V or Port Collar

Sand

Ran 5½ and est. Circulation

Handling 185

pumped 500 gal mud clear followed by 10 bbl KCL

Mileage

FLOAT EQUIPMENT

plugged rathole with 30 sks

Guide Shoe

plugged mouse hole with 20 sks

Centralizer 5

cemented 5½ with 120 sks

Baskets 1

and displaced First 10 bbl with KCL

AFU Inserts

5½ set at - 3186

Float Shoe 1

Lift pressure @ 700 psi

Latch Down 1

Landed plug @ 1400 psi

Pumptrk Charge Prod. String

Mileage 80

Tax

Discount

Thanks

Total Charge

X Signature

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: Finney #2
API: 15-111-20551-00-00
Location: Lyon County
License Number:
Region: Kansas
Spud Date: 12/10/2020
Drilling Completed: 12/16/2020
Surface Coordinates: 1,190' FNL & 2,105' FEL
Section 6, Township 17 South, Range 10 East
Bottom Hole Coordinates: Vertical well w/ minimal deviation, same as above
Ground Elevation (ft): 1,295
K.B. Elevation (ft): 1,307
Logged Interval (ft): 2,400 To: 3,186
Total Depth (ft): 3,190
Formation: Mississippian - Arbuckle
Type of Drilling Fluid: Chemical (Andy's)

OPERATOR

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

DSTs

Comments

The Finney #2 well was drilled by Lighthouse Drilling Rig #1 (Tool Pusher: Charlie Coulter).

The location for the Finney #2 was discovered via 3D seismic. Drill time was recorded, and rock samples were evaluated from 2,600' - 3,190'. Oil shows were encountered in the Hunton & Viola formations. Structurally, the Hunton top was picked 3' low to the comparison well, Finney #1 (John O. Farmer, Inc.). Due to the structural positioning, the Hunton oil show was deemed not worthy of drill stem testing as it was already condemned by a drill stem test in the Finney #1. Structural thickening occurred at the base of the Hunton, which resulted in a Viola picked 7' low to the comparison well. Two drill stem tests were conducted over the top 16' of the Viola, the first of which was a misrun, caused by a tool malfunction. The second DST yielded 186' thick oil (100% oil) and 40' heavy oil cut mud (25% oil). Additional thickening occurred below the Viola and the Simpson Sand top was picked 10' low to the comparison well. After evaluation of all oil shows, DST results, & electric logs, it was decided that 5 1/2" production casing be set to further evaluate the Finney #2 on 12/17/2020.

ROCK TYPES

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

OTHER SYMBOLS

POROSITY: Earthy, Fenest, Fracture, Inter, Moldic, Organic, Pinpoint, Vuggy

SORTING: Well, Moderate, Poor

ROUNDING: Rounded, Subrnd, Subang, Angular

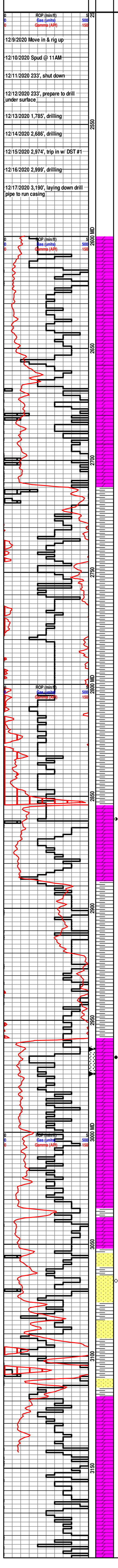
OIL SHOW: Even, Spotted, Ques, Dead

INTERVAL: Core, Dst

EVENT: Rft, Sidewall

Curve Track 1	MD	Lithology	Oil Shows	Geological Descriptions	DST/Mud/Survey

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



The open-hole logging was performed by Mr. Casey Patterson with Gemini Wireline, LLC (Hays, KS). Logs included: Compensated Density Neutron, Dual Induction, and Microresistivity.

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

Formation	E-Log	Datum
Miss	2408	-1101
Kinderhook	2712	-1405
Hunton	2854	-1547
Maq	2888	-1581
Viola	2958	-1651
Simpson Sand	3055	-1748
Arbuckle	3119	-1812
LTD	3186	-1879

Dolo: tan-brn, fn-sub xln, mostly DNS

Dolo: ala

Dolo: tan-brn, fn xln, poor int xln porosity, barren, chert

Dolo: off wh tan-brn, fn xln, fair int xln porosity, barren, scat chert

Dolo: tan-gry, fn-sub xln, DNS, chert

Dolo: ala

Wt: 8.8
Vis: 47

Dolo: tan-gry-brn, fn-sub xln, DNS, scat sh: drk gry

Kinderhook 2718' (-1411)

Sh: lt-drk gry

Sh: ala

Sh: lt-drk gry, soft

Sh: lt-drk gry, soft

Sh: ala

Sh: lt-drk gry, soft

Sh: lt-drk gry, soft

Sh: ala

Hunton 2861' (-1554)

Dolo: off wh, fn xln, fair-good int xln & scat vuggy porosity, fair-good oil stn, SSFO, sl odor

Dolo: off wh, fn xln, scat int xln porosity, NSFO, scat sh: drk gry

Maquoketa 2894' (-1587)

Sh: lt gry, soft

Sh: ala

Sh: lt gry, soft

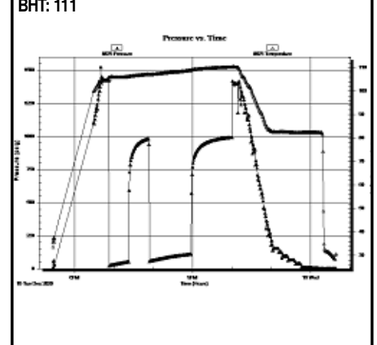
Sh: ala

Wt: 9.3
Vis: 46

Sh:

DST #1 2,963-2,974' Viola
Mis-Run Tool Malfunction

DST #2 2,963-2,974' Viola
30"-30"-60"-60"
IF: weak blow, built to 6"; no blow back on shut in
FF: weak blow, built to 5"; no blow back on shut in
Rec: 186' Clean Heavy Oil, 40' Heavy Oil Cut Mud (25% O, 75% M)
FP: 20-56, 58-111#
SIP: 982-993#
HP: 1,452-1,430#
BHT: 111



Viola 2962' (-1655)

Dolo: off wh, fn-md xln, fair-good int xln porosity, fair-good bleeding oil, GSFO, good odor

Dolo: tan-brn, fn xln, poor int xln porosity, mostly DNS, NSFO

Dolo: tan-brn-gry, fn xln, poor int xln porosity, mostly DNS, hvy chert-off wh, NSFO

Dolo: tan-brn, fn xln, mostly DNS, NSFO, scat chert-off wh

Dolo: tan-brn-gry, fn xln, fair int xln porosity, chert-off wh

Dolo: ala

Dolo: tan-brn-gry, fn xln, mostly DNS, NSFO

Simpson Dolomite 3043' (-1736)

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

Simpson Sand 3060' (-1753)

Ss: qtz, off wh, fn-md grn, rnd, fair cementing, fair-poorly sorted, fair int grn porosity, scat hvy tarry oil stn, sl odor

Ss: qtz, off wh, fn-md grn, ang, well cemented, poorly sorted, poor-fair int grn porosity, barren

Sh: lt-drk gry

Ss: qtz, off wh, fn-vry fn grn, fair sorting, rnd, poorly cemented, fair int grn porosity, NSFO

Sh: drk gry-blk

Ss: qtz, wh, fn grn, fair sorting, rnd, poor-fair cementing, poor int grn porosity, barren

Arbuckle 3115' (-1808)

Dolo: tan-gry, fn-sub xln, DNS, scat chert-off wh

Dolo: ala

Dolo: tan-lt gry, fn-sub xln, DNS, hvy chert-off wh

Dolo: ala

Dolo: tan-lt gry-brn, fn-sub xln, DNS, barren

Dolo: ala

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Finney #2

6-17s-10E Lyon,KS

Start Date: 2020.12.15 @ 05:00:00
End Date: 2020.12.15 @ 12:23:47
Job Ticket #: 66902 DST #: 1

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

Printed: 2020.12.17 @ 10:39:38

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

6-17s-10E Lyon,KS

Finney #2

Job Ticket: 66902 **DST#: 1**

Test Start: 2020.12.15 @ 05:00:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 12:23:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer Staab
Unit No: 84

Interval: 2963.00 ft (KB) To 2974.00 ft (KB) (TVD)
Total Depth: 2974.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

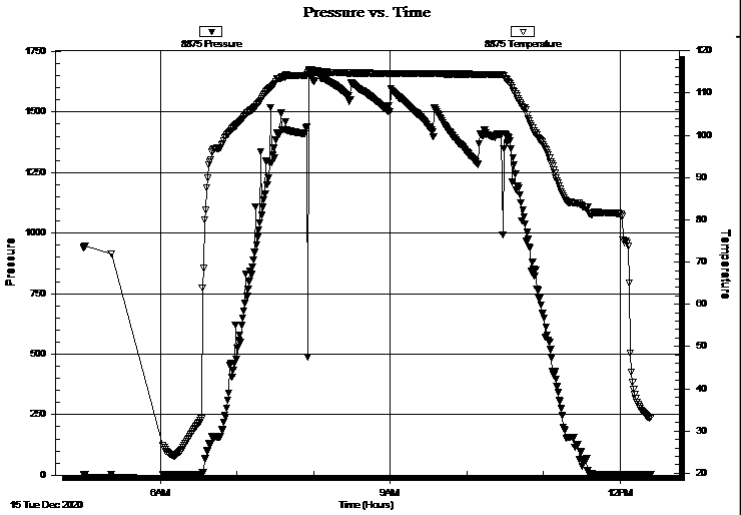
Reference Elevations: 1307.00 ft (KB)
1295.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8875 **Outside**

Press@RunDepth: psig @ 2964.00 ft (KB)
Start Date: 2020.12.15 End Date: 2020.12.15
Start Time: 05:00:01 End Time: 12:23:47

Capacity: psig
Last Calib.: 2020.12.15
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Surface Died in 10 mins Tool plugged off by recorder hanger.
30-ISI-No Return
30-FF-No Blow
30-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

6-17s-10E Lyon,KS

Finney #2

Job Ticket: 66902 **DST#: 1**

Test Start: 2020.12.15 @ 05:00:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended: 12:23:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer Staab
Unit No: 84

Interval: 2963.00 ft (KB) To 2974.00 ft (KB) (TVD)
Total Depth: 2974.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

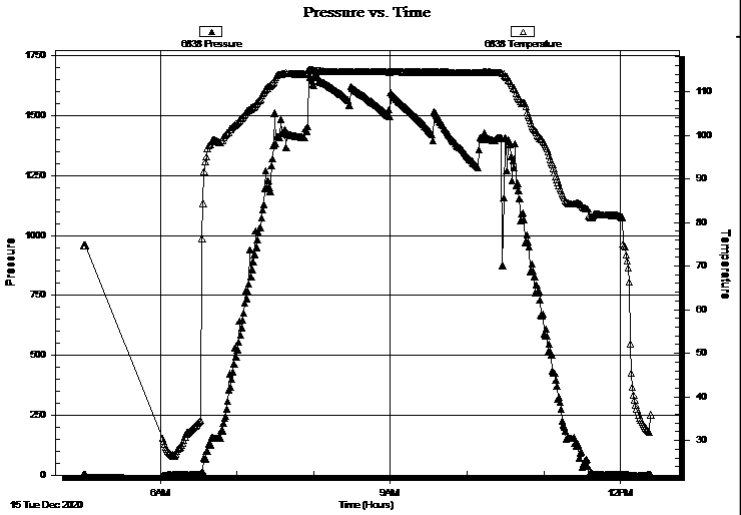
Reference Elevations: 1307.00 ft (KB)
1295.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6838 **Inside**

Press@RunDepth: psig @ 2964.00 ft (KB)
Start Date: 2020.12.15 End Date: 2020.12.15
Start Time: 05:00:01 End Time: 12:23:47

Capacity: psig
Last Calib.: 2020.12.15
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Surface Died in 10 mins Tool plugged off by recorder hanger.
30-ISI-No Return
30-FF-No Blow
30-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

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

ATTN: Austin Klaus

6-17s-10E Lyon,KS

Finney #2

Job Ticket: 66902 **DST#: 1**

Test Start: 2020.12.15 @ 05:00:00

Tool Information

Drill Pipe:	Length:	2664.00 ft	Diameter:	3.82	inches	Volume:	37.76	bbl	
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75	inches	Volume:	-	bbl	
Drill Collar:	Length:	303.00 ft	Diameter:	2.25	inches	Volume:	1.49	bbl	
						Total Volume:	-	bbl	

Drill Pipe Above KB:	30.00 ft
Depth to Top Packer:	2963.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	11.00 ft
Tool Length:	37.00 ft
Number of Packers:	1 Diameter: 6.75 inches

Tool Weight:		2200.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		57000.00 lb
Tool Chased		ft
String Weight:	Initial	53000.00 lb
	Final	53000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2938.00		
Change Over Sub	1.00			2939.00		
Shut In Tool	5.00			2944.00		
Hydraulic tool	5.00		Fluid	2949.00		
Gap Sub	5.00			2954.00		
Packer	5.00			2959.00	26.00	Bottom Of Top Packer
Packer	4.00			2963.00		
Stubb	1.00			2964.00		
Recorder	0.00	6838	Inside	2964.00		
Recorder	0.00	8875	Outside	2964.00		
Perforations	6.00			2970.00		
Bullnose	4.00			2974.00	11.00	Bottom Packers & Anchor
Total Tool Length:	**37.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

6-17s-10E Lyon,KS

Finney #2

Job Ticket: 66902 **DST#: 1**

Test Start: 2020.12.15 @ 05:00:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.56 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	500.00 ppm				
Filter Cake:	inches				

Recovery Information

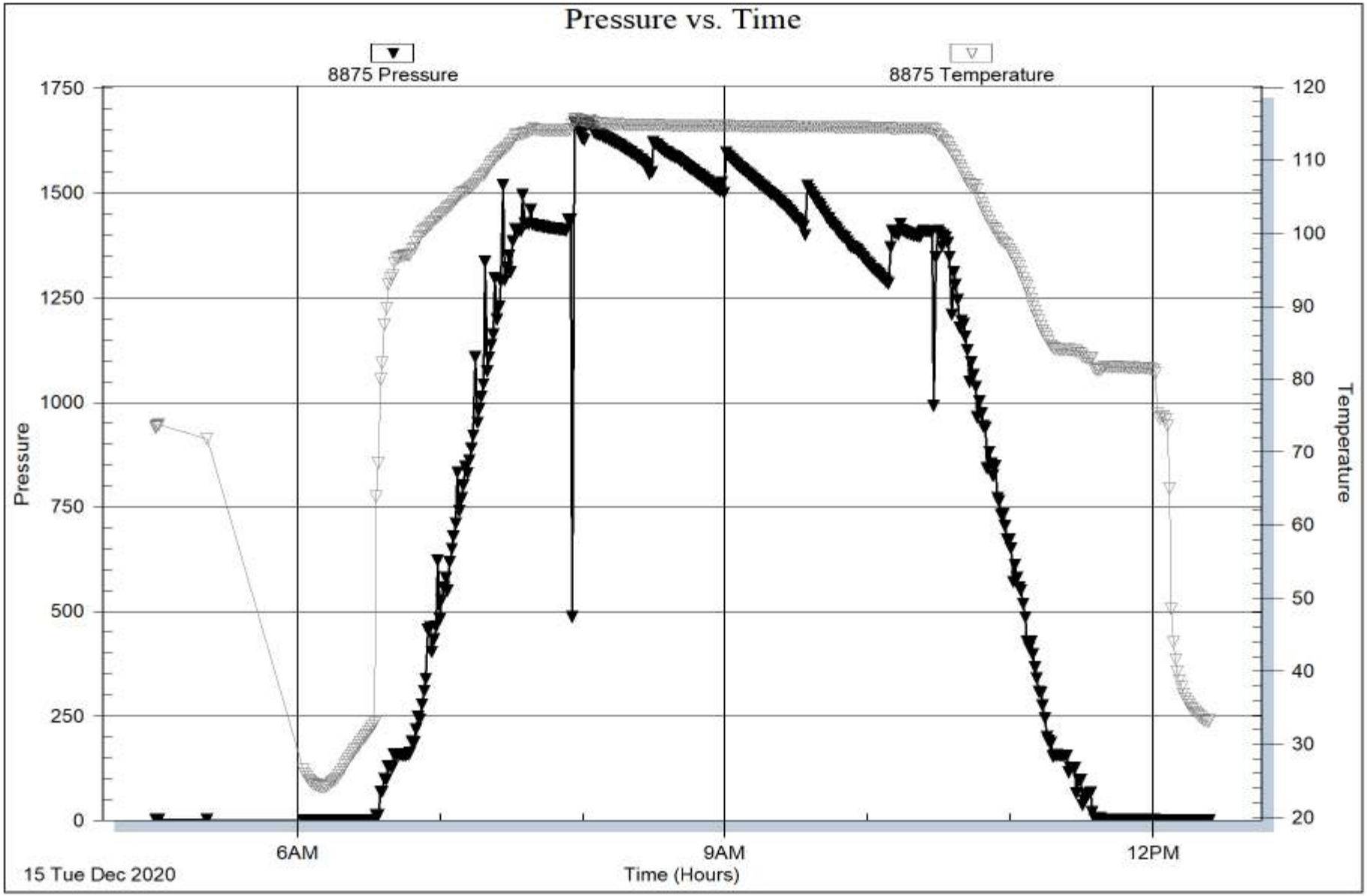
Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

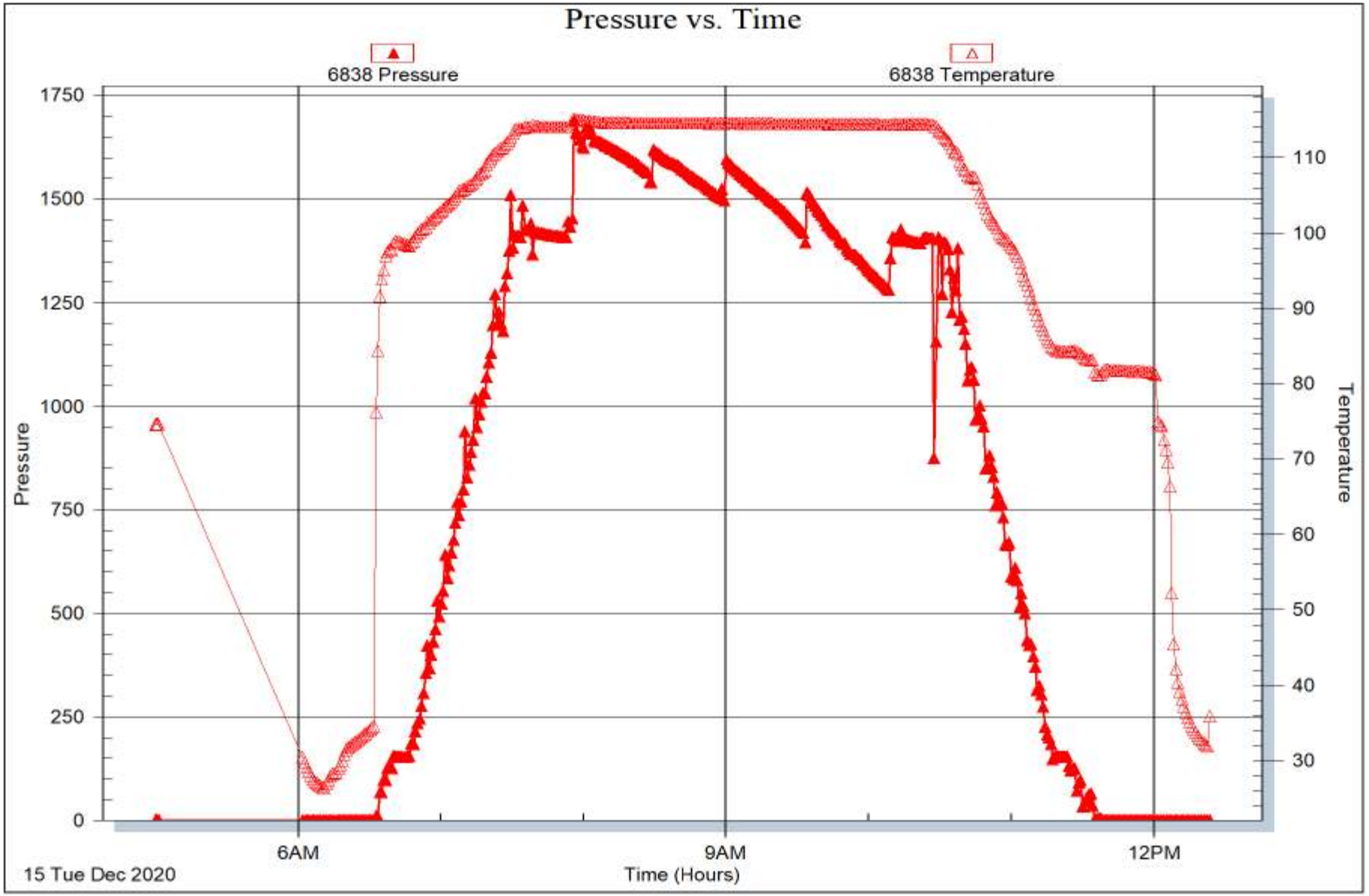
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 3#LCM

Serial #: 8875 **Outside** John O Farmer Inc Finney #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66902 Printed: 2020.12.17 @ 10:39:39

Serial #: 6838 **Inside** John O Farmer Inc Finney #2 DST Test Number: 1



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer Inc**

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

Finney #2

6-17s-10E Lyon,KS

Start Date: 2020.12.15 @ 17:27:00
End Date: 2020.12.16 @ 00:40:07
Job Ticket #: 66903 DST #: 2

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

Printed: 2020.12.17 @ 10:37:57

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

6-17s-10E Lyon,KS

Finney #2

Job Ticket: 66903 **DST#: 2**

Test Start: 2020.12.15 @ 17:27:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:52:02
Time Test Ended: 00:40:07

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer Staab
Unit No: 84

Interval: 2963.00 ft (KB) To 2974.00 ft (KB) (TVD)
Total Depth: 2974.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

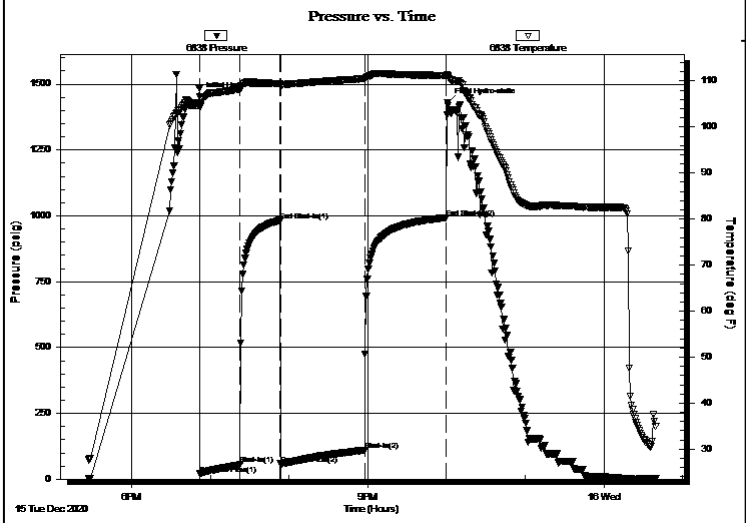
Reference Elevations: 1307.00 ft (KB)
1295.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6838 **Inside**

Press@RunDepth: 110.82 psig @ 2964.00 ft (KB)
Start Date: 2020.12.15 End Date: 2020.12.16
Start Time: 17:27:01 End Time: 00:40:07

Capacity: psig
Last Calib.: 2020.12.16
Time On Btm: 2020.12.15 @ 18:51:52
Time Off Btm: 2020.12.15 @ 22:00:52

TEST COMMENT: 30-IF-Surface to 6"
30-ISI-No Return
60-FF-Surface to 5"
60-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1452.22	104.79	Initial Hydro-static
1	19.53	104.30	Open To Flow (1)
31	55.69	108.27	Shut-In(1)
61	982.29	109.46	End Shut-In(1)
62	57.94	109.12	Open To Flow (2)
126	110.82	110.59	Shut-In(2)
188	992.84	111.22	End Shut-In(2)
189	1429.94	111.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	HOCM 25%O 75%M	0.20
186.00	Thick Oil 100%O	0.91

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

6-17s-10E Lyon,KS

Finney #2

Job Ticket: 66903 **DST#: 2**

Test Start: 2020.12.15 @ 17:27:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:52:02
Time Test Ended: 00:40:07

Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer Staab
Unit No: 84

Interval: 2963.00 ft (KB) To 2974.00 ft (KB) (TVD)
Total Depth: 2974.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

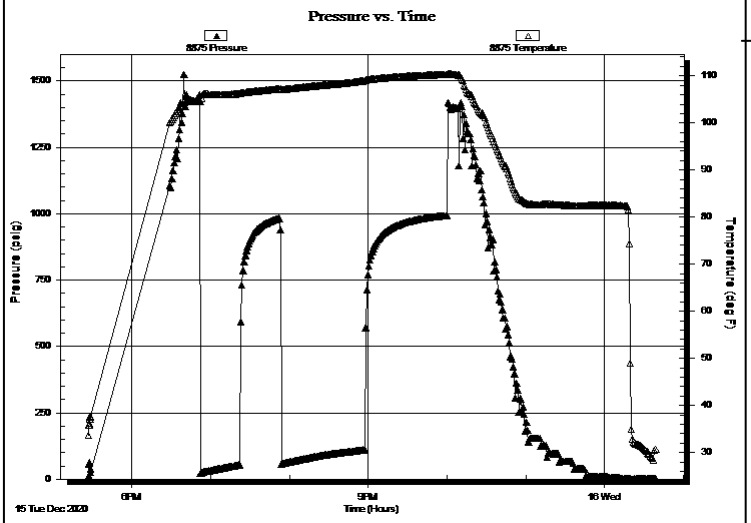
Reference Elevations: 1307.00 ft (KB)
1295.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8875 **Outside**

Press@RunDepth: psig @ 2964.00 ft (KB)
Start Date: 2020.12.15 End Date: 2020.12.16
Start Time: 17:27:11 End Time: 00:39:36

Capacity: psig
Last Calib.: 2020.12.16
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IF-Surface to 6"
30-ISI-No Return
60-FF-Surface to 5"
60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	HOCM 25%O 75%M	0.20
186.00	Thick Oil 100%O	0.91

* 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

ATTN: Austin Klaus

6-17s-10E Lyon,KS

Finney #2

Job Ticket: 66903 **DST#: 2**

Test Start: 2020.12.15 @ 17:27:00

Tool Information

Drill Pipe:	Length:	2664.00 ft	Diameter:	3.82	inches	Volume:	37.76	bbl	
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75	inches	Volume:	-	bbl	
Drill Collar:	Length:	303.00 ft	Diameter:	2.25	inches	Volume:	1.49	bbl	
						Total Volume:	-	bbl	

Drill Pipe Above KB:	30.00 ft
Depth to Top Packer:	2963.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	11.00 ft
Tool Length:	37.00 ft
Number of Packers:	1 Diameter: 6.75 inches

Tool Weight:		2200.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		80000.00 lb
Tool Chased		ft
String Weight:	Initial	53000.00 lb
	Final	54000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			2938.00		
Change Over Sub	1.00			2939.00		
Shut In Tool	5.00			2944.00		
Hydraulic tool	5.00		Fluid	2949.00		
Gap Sub	5.00			2954.00		
Packer	5.00			2959.00	26.00	Bottom Of Top Packer
Packer	4.00			2963.00		
Stubb	1.00			2964.00		
Recorder	0.00	6838	Inside	2964.00		
Recorder	0.00	8875	Outside	2964.00		
Perforations	6.00			2970.00		
Bullnose	4.00			2974.00	11.00	Bottom Packers & Anchor
Total Tool Length:	**37.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer Inc

PO Box 352
Russell KS 67665

ATTN: Austin Klaus

6-17s-10E Lyon,KS

Finney #2

Job Ticket: 66903 **DST#: 2**

Test Start: 2020.12.15 @ 17:27:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

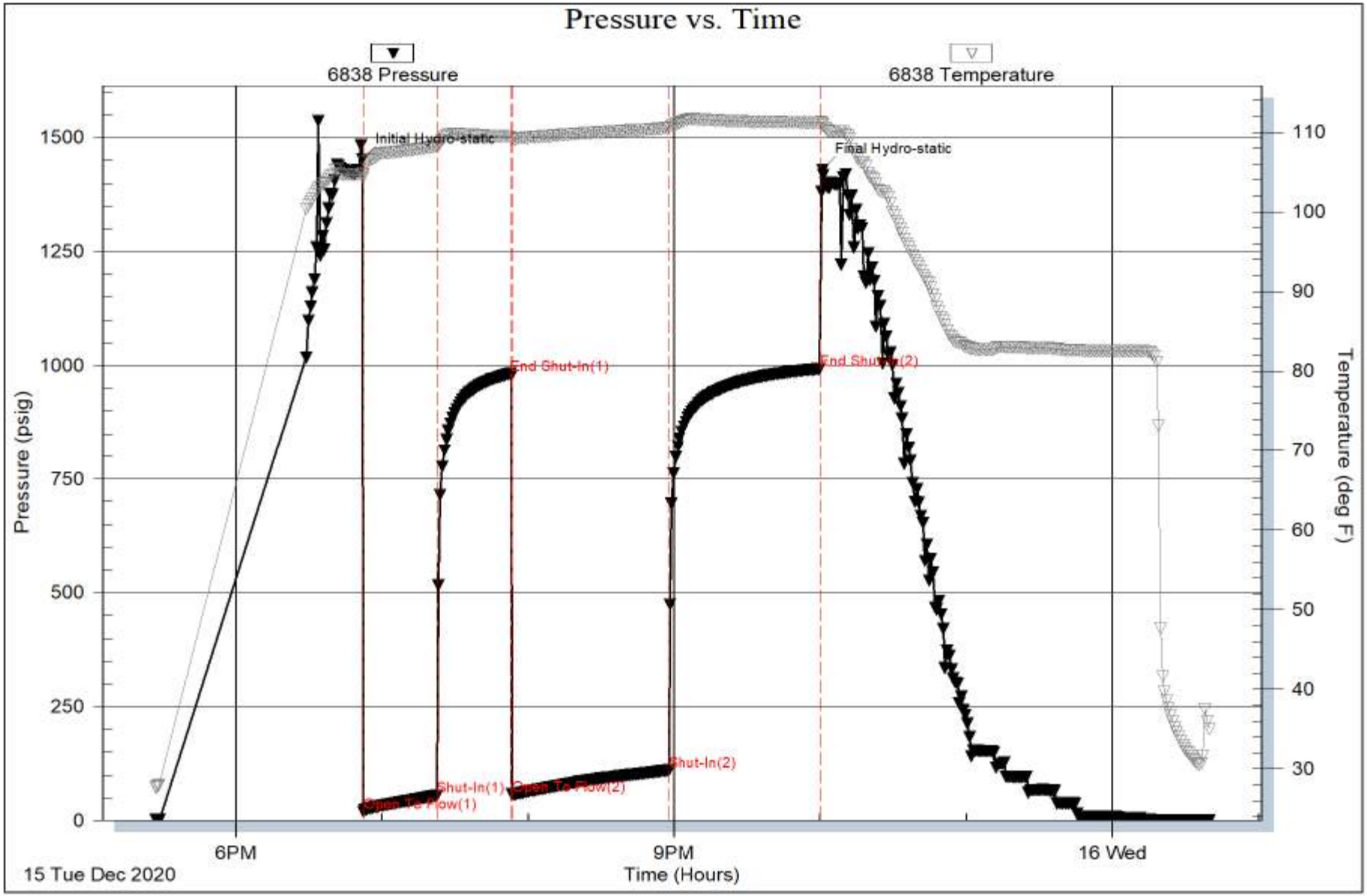
Length ft	Description	Volume bbl
40.00	HOCM 25%O 75%M	0.197
186.00	Thick Oil 100%O	0.915

Total Length: 226.00 ft Total Volume: 1.112 bbl

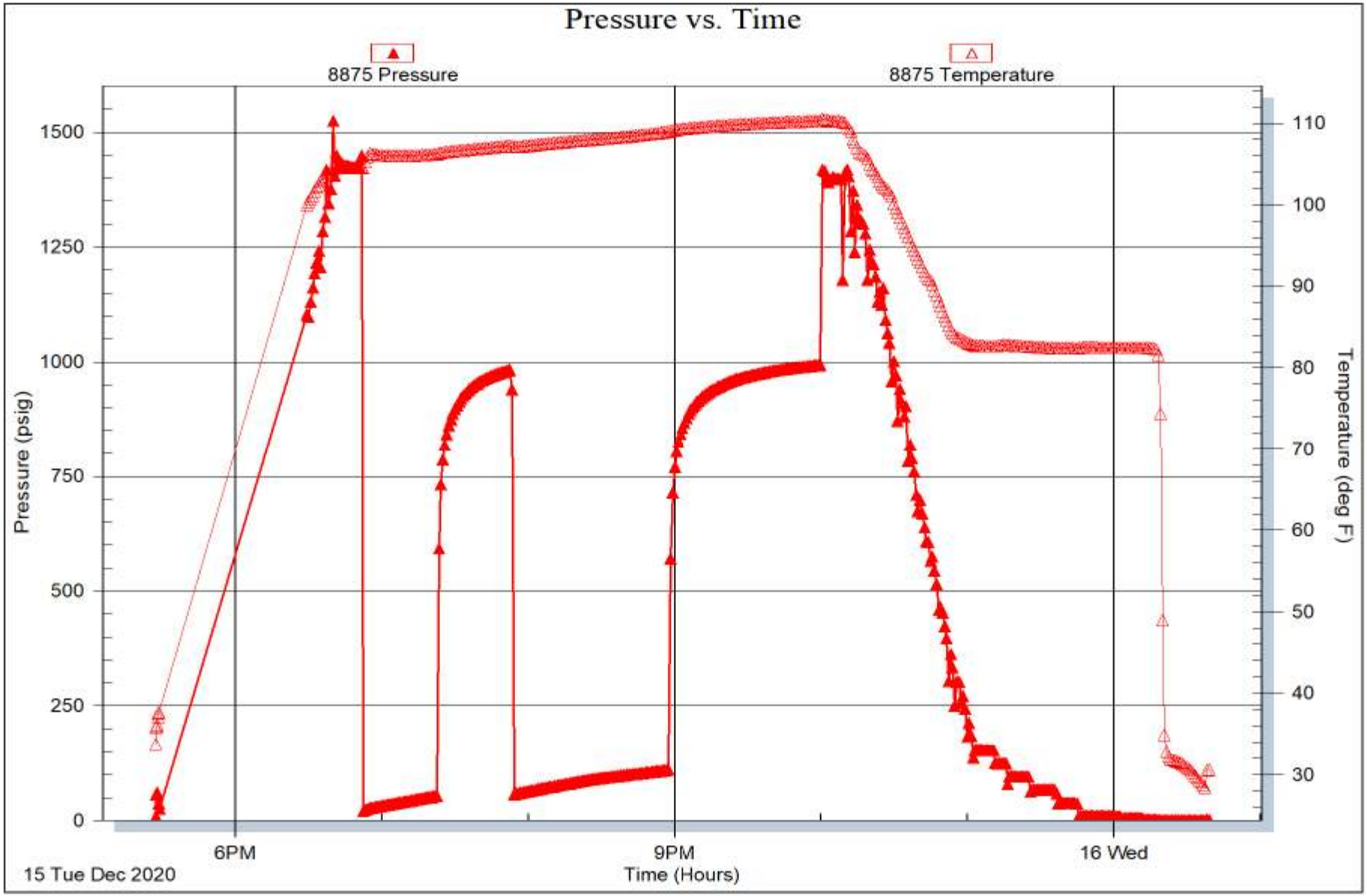
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity w as low er than hydrometer w ould read 2#LCM


Pressure vs. Time
6838 Pressure
6838 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
30
6PM
9PM
16 Wed
15 Tue Dec 2020
Time (Hours)

Serial #: 8875 **Outside** John O Farmer Inc Finney #2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66903 Printed: 2020.12.17 @ 10:37:58

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 66902

Well Name & No. Finney #2 Test No. 1 Date 12/15/2020

Company John O. Farmer Inc Elevation 1307 KB 1295 GL

Address 370 W Wichita Ave PO BOX 352 Russell Ks 67665

Co. Rep / Geo. Austin Klaus Rig Lighthouse

Location: Sec. 6 Twp 17s Rge. 10E Co. Lyon State Ks

Interval Tested 2963' - 2974' Zone Tested Viola

Anchor Length 11' Drill Pipe Run 2664' Mud Wt. 8.8

Top Packer Depth 2958' Drill Collars Run 303' Vis 47

Bottom Packer Depth 2963' Wt. Pipe Run — WL 9.6

Total Depth 2974' Chlorides 500 ppm System LCM 3#

Blow Description IF-Surface, Died after 10 mins
ISI- No Return
FF- No Blow
FSI- No Return

Rec 10'	Feet of OSM	%gas	%oil	%water 100	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic	☒ Test	T-On Location 04:11
(B) First Initial Flow	☐ Jars	T-Started [redacted] 05:00
(C) First Final Flow	☐ Safety Joint	T-Open 07:25
(D) Initial Shut-In	☐ Circ Sub	T-Pulled 09:25
(E) Second Initial Flow	☐ Hourly Standby	T-Out 11:53
(F) Second Final Flow	☒ Mileage 394R7	Comments
(G) Final Shut-In	☐ Sampler	
(H) Final Hydrostatic	☐ Straddle	☒ EM Tool
	☒ Shale Packer	☐ Ruined Shale Packer
Initial Open 30	☐ Extra Packer	☐ Ruined Packer
Initial Shut-In 30	☐ Extra Recorder	☐ Extra Copies
Final Flow 30	☐ Day Standby	Sub Total
Final Shut-In 30	☐ Accessibility	Total
	Sub Total	MP/DST Disc't

Approved By Our Representative Spencer Thanks!

785-259-0056

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 66903

Well Name & No. Finney #2 Test No. 2 Date 12/15/2020

Company John O. Farmer Inc Elevation 1307 KB 1295 GL

Address 370 W Wichita Ave PO BOX 352 Russell Ks 67665

Co. Rep / Geo. Austin Klaus Rig Lighthouse

Location: Sec. 6 Twp 17s Rge. 10E Co. Lyon State Ks

Interval Tested 2963' - 2974' Zone Tested Viola

Anchor Length 11' Drill Pipe Run 2664' Mud Wt. 9.3

Top Packer Depth 2958' Drill Collars Run 303' Vis 46

Bottom Packer Depth 2963' Wt. Pipe Run — WL 8.8

Total Depth 2974' Chlorides 500 ppm System LCM 2#

Blow Description 1st Surface to 6"
1SI- No Return
2nd Surface to 5"
2SI No Return

Rec 410'	Feet of HOCM	%gas 25	%oil	%water 75	%mud	
Rec 186'	Feet of Thick Oil	%gas 100	%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 226' BHT 111° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1452	☒ Test 1200	T-On Location 17:03	
(B) First Initial Flow 19	☐ Jars	T-Started 17:27	
(C) First Final Flow 55	☐ Safety Joint	T-Open 20:39	
(D) Initial Shut-In 982	☐ Circ Sub	T-Pulled 23:39	
(E) Second Initial Flow 57	☐ Hourly Standby	T-Out 02:28 12/16/2020	
(F) Second Final Flow 110	☒ Mileage 394R7 394 + 22	Comments gravity was lower than lowest hydrometer loaded 12/17 4:00	
(G) Final Shut-In 992	☐ Sampler		
(H) Final Hydrostatic 1429	☐ Straddle	☒ EM Tool 350	
	☒ Shale Packer 250	☐ Ruined Shale Packer	
Initial Open 30	☐ Extra Packer	☐ Ruined Packer	
Initial Shut-In 30	☐ Extra Recorder	☐ Extra Copies	
Final Flow 60	☐ Day Standby	Sub Total 0	
Final Shut-In 60	☐ Accessibility	Total 1866	
	Sub Total 1866	MP/DST Disc't	

Approved By Our Representative Spencer Teal Thanks!

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.

785-259-0056