

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. 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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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	BLOOM 1-22
Doc ID	1583973

All Electric Logs Run

Neutron/Density
Dual Induction
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	BLOOM 1-22
Doc ID	1583973

Tops

Name	Top	Datum
Base Anhydrite	2513	+457
Heebner	3972	-1002
Lansing	4006	-1036
Muncie Creek	4148	-1178
Stark Shale	4232	-1262
Hushpuckney	4266	-1296
Pawnee	4415	-1445
Johnson	4555	-1585
Mississippian	4600	-1630



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co

22-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Bloom 1-22

Job Ticket: 67460

DST#: 1

ATTN: Vern Schrag

Test Start: 2021.07.11 @ 18:33:23

GENERAL INFORMATION:

Formation: **Lan**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:59:53

Time Test Ended: 01:50:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 3997.00 ft (KB) To 4010.00 ft (KB) (TVD)

Reference Elevations: 2970.00 ft (KB)

Total Depth: 4010.00 ft (KB) (TVD)

2960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 34.01 psig @ 3998.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.11 End Date: 2021.07.12

Last Calib.: 2021.07.12

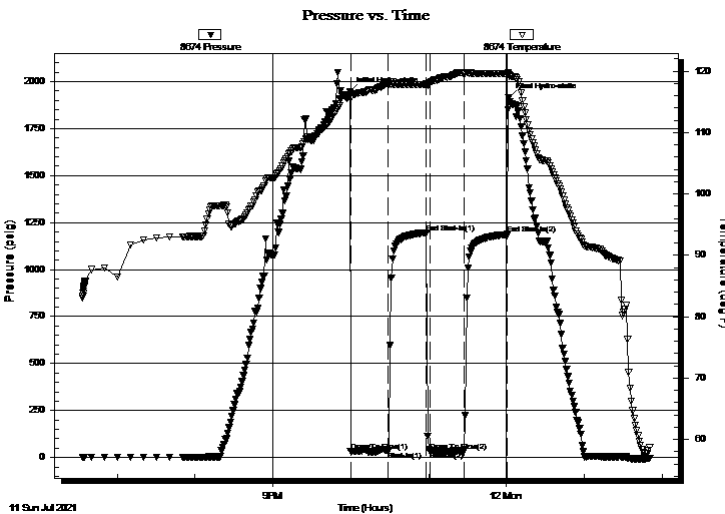
Start Time: 18:33:28 End Time: 01:50:22

Time On Btm: 2021.07.11 @ 21:59:23

Time Off Btm: 2021.07.12 @ 00:01:53

TEST COMMENT: IF: Surface blow died in 5 min.
IS: No return.
FF: No blow.
FS: No return 30-30-30-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1944.65	116.01	Initial Hydro-static
1	31.50	115.55	Open To Flow (1)
30	32.39	117.86	Shut-In(1)
59	1196.71	117.86	End Shut-In(1)
62	33.69	117.93	Open To Flow (2)
88	34.01	119.54	Shut-In(2)
122	1187.04	119.59	End Shut-In(2)
123	1914.66	119.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

22-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Bloom 1-22

Job Ticket: 67460

DST#: 1

ATTN: Vern Schrag

Test Start: 2021.07.11 @ 18:33:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

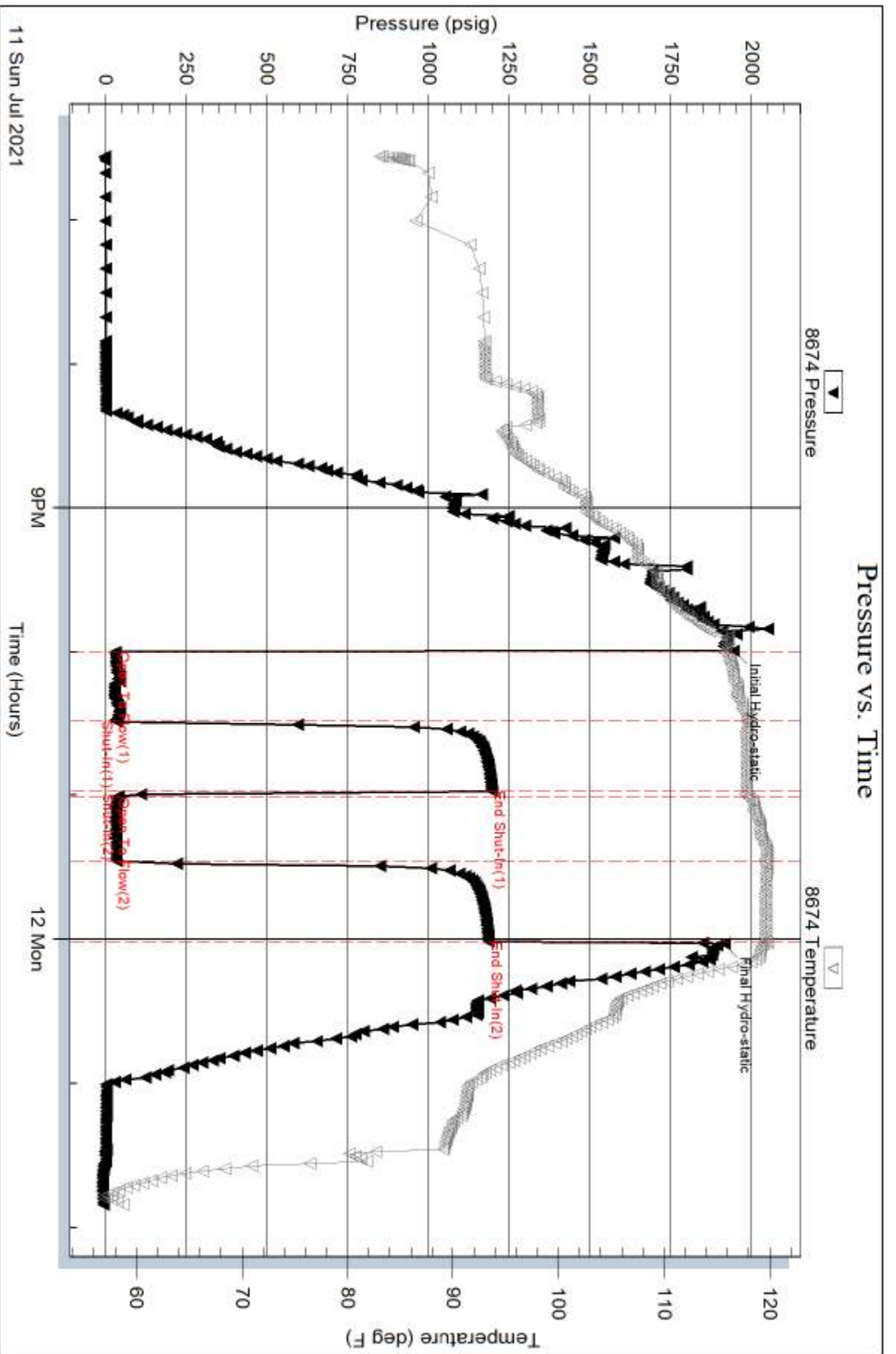
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



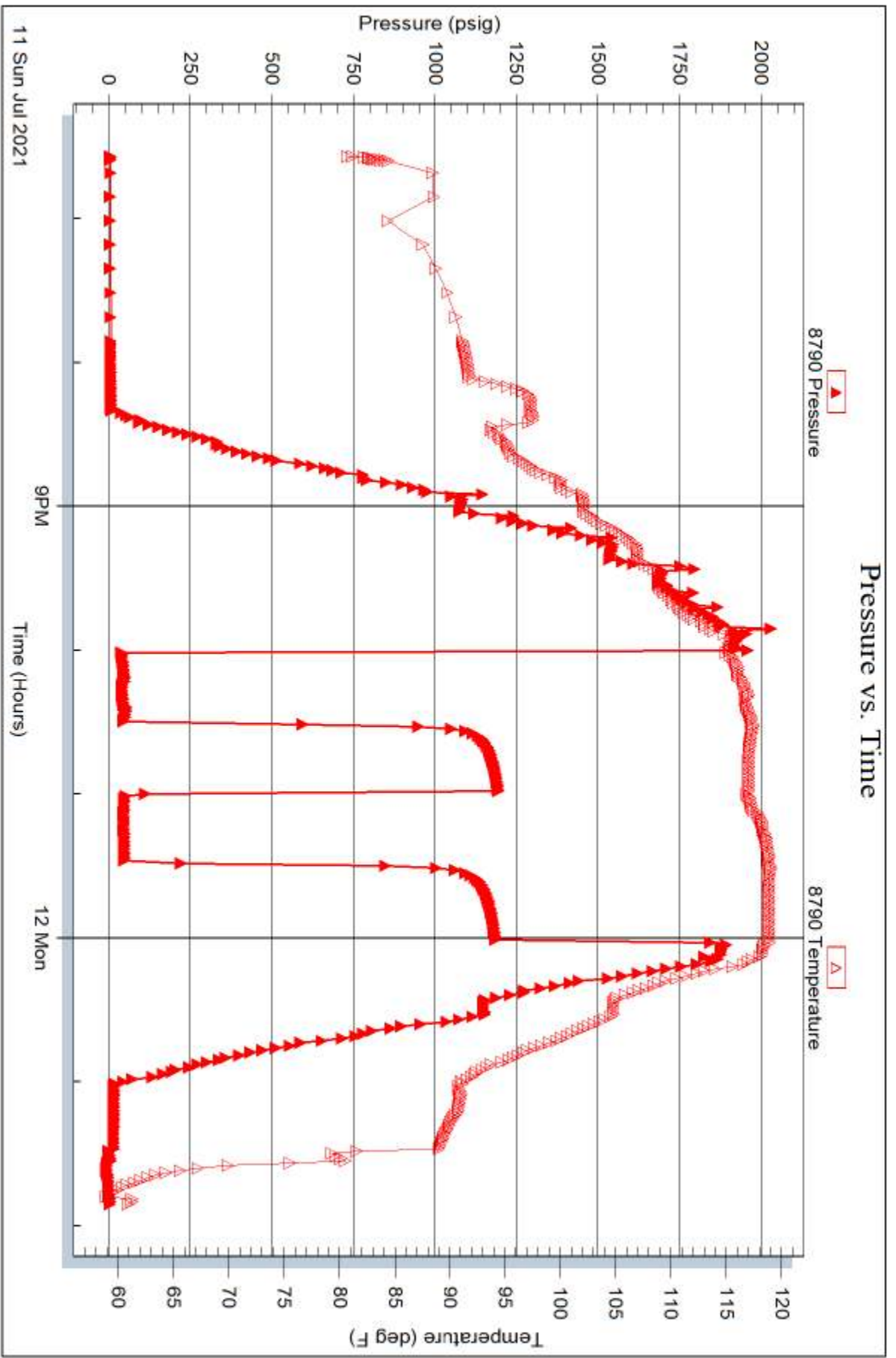
Serial #: 8790

Inside

Shakespeare Oil Co

Bloom 1-22

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

22-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Bloom 1-22

Job Ticket: 67461

DST#: 2

ATTN: Vern Schrag

Test Start: 2021.07.13 @ 00:17:35

GENERAL INFORMATION:

Formation: **H**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:19:35
 Tester: Brandon Turley
 Time Test Ended: 06:02:05
 Unit No: 79
Interval: 4139.00 ft (KB) To 4203.00 ft (KB) (TVD)
 Reference Elevations: 2970.00 ft (KB)
 Total Depth: 4203.00 ft (KB) (TVD)
 2960.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

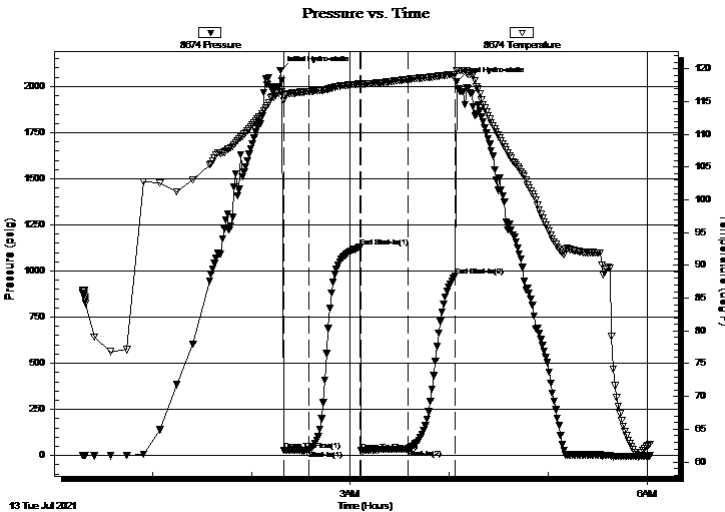
Serial #: 8674

Outside

Press@RunDepth: 34.42 psig @ 4140.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.07.13 End Date: 2021.07.13 Last Calib.: 2021.07.13
 Start Time: 00:17:40 End Time: 06:02:04 Time On Btm: 2021.07.13 @ 02:17:35
 Time Off Btm: 2021.07.13 @ 04:04:35

TEST COMMENT: IF Surface blow built to 1/8.
 IS: No return.
 FF: 1/4 blow built to 1 1/2. Died to 1/2.
 FS: No return. 15-30-30-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2087.22	116.47	Initial Hydro-static
2	28.68	115.13	Open To Flow (1)
18	30.63	116.54	Shut-In(1)
48	1128.45	117.67	End Shut-In(1)
49	25.55	117.54	Open To Flow (2)
78	34.42	118.40	Shut-In(2)
106	972.25	119.16	End Shut-In(2)
107	2025.16	119.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	ocm 5%o 95%m	0.43
0.00	31 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

22-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Bloom 1-22

Job Ticket: 67461

DST#: 2

ATTN: Vern Schrag

Test Start: 2021.07.13 @ 00:17:35

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
31.00	ocm 5%o 95%m	0.435
0.00	31 GIP	0.000

Total Length: 31.00 ft Total Volume: 0.435 bbf

Num Fluid Samples: 0

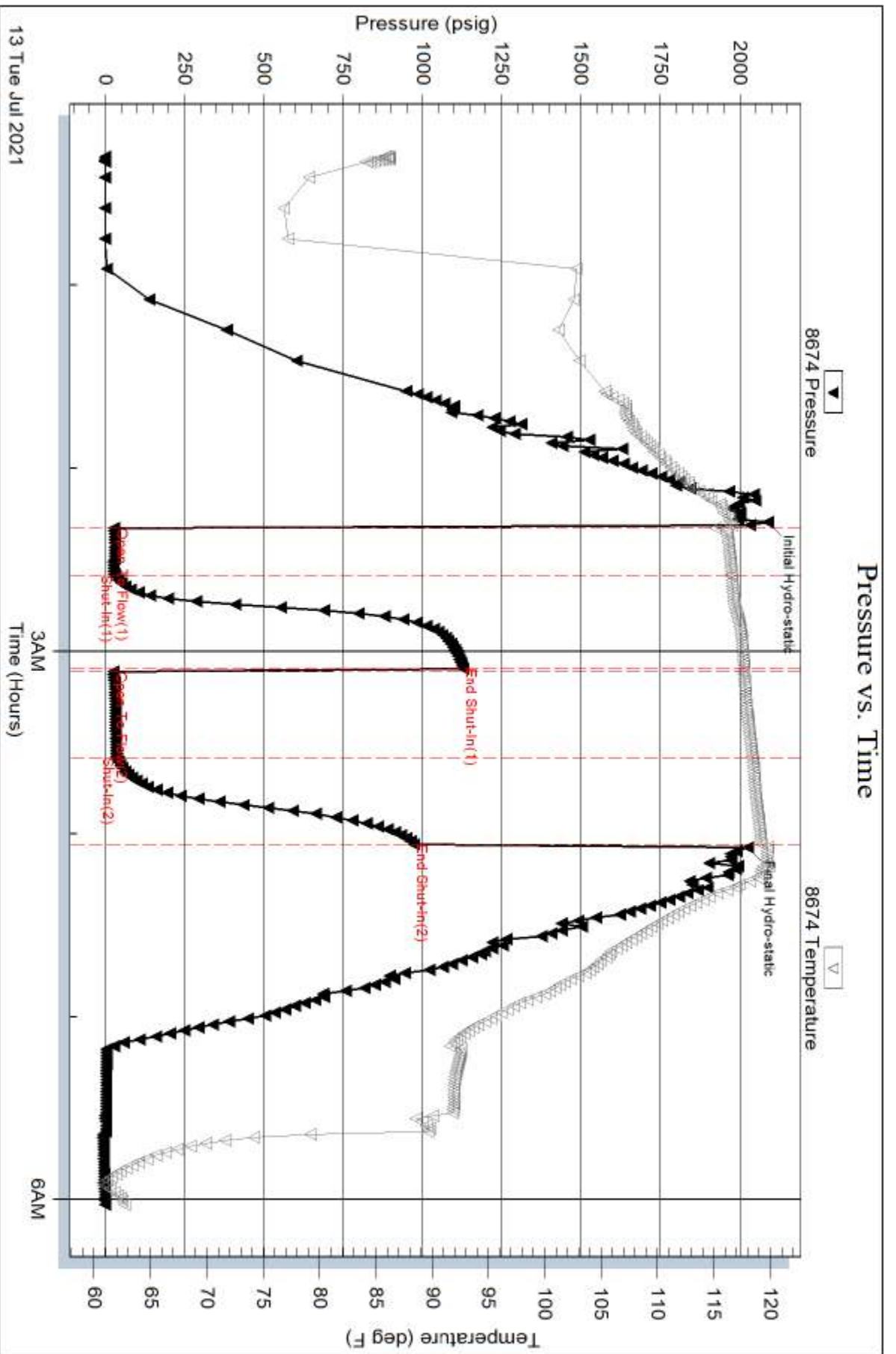
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



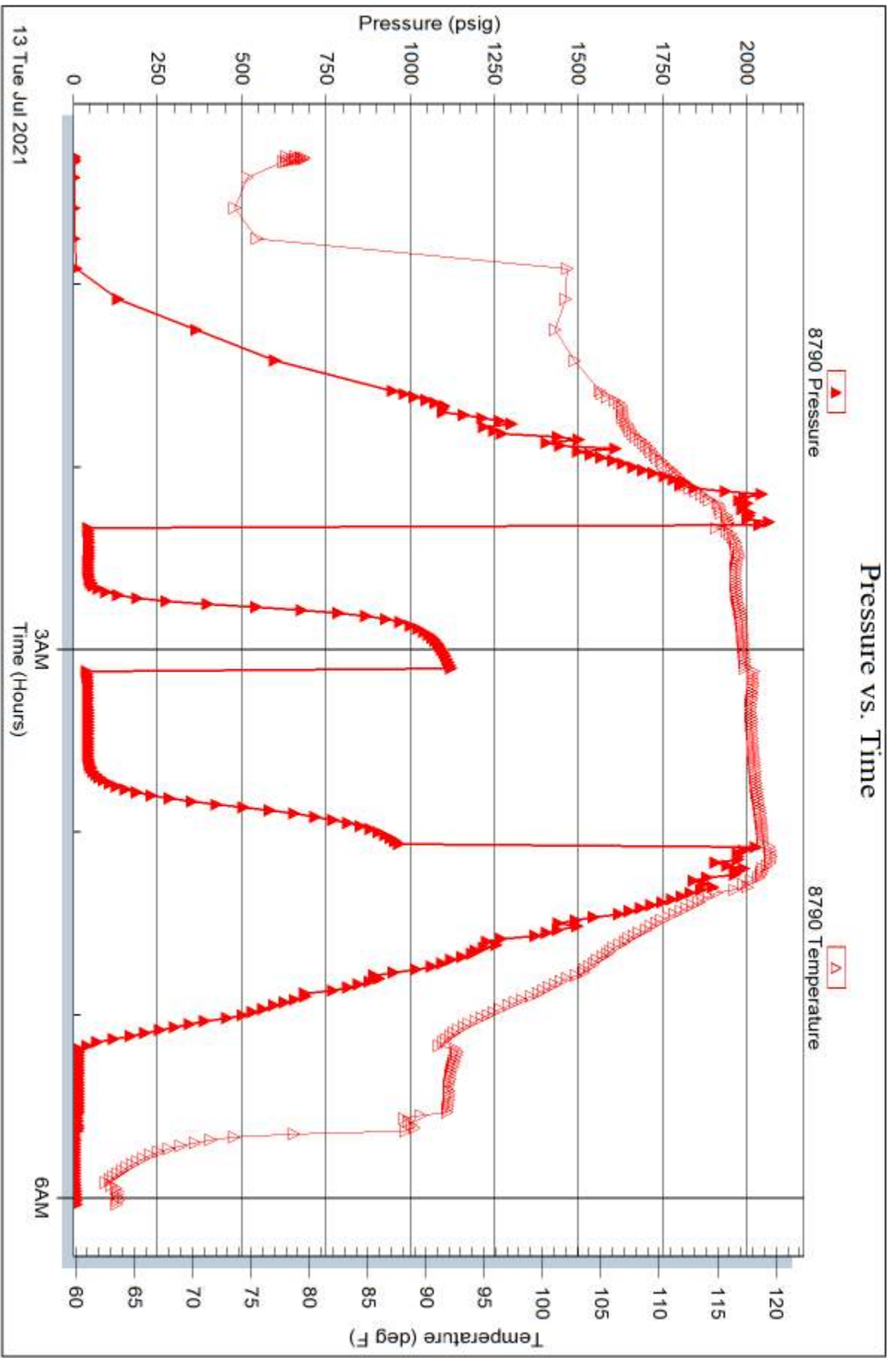
Serial #: 8790

Inside

Shakespeare Oil Co

Bloom 1-22

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67461

Printed: 2021.07.13 @ 07:19:13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co

22-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Bloom 1-22

Job Ticket: 67462

DST#: 3

ATTN: Vern Schrag

Test Start: 2021.07.13 @ 21:15:12

GENERAL INFORMATION:

Formation: **J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:21:42

Time Test Ended: 03:16:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4199.00 ft (KB) To 4290.00 ft (KB) (TVD)

Reference Elevations: 2970.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

2960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 46.46 psig @ 4200.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.13

End Date:

2021.07.14

Last Calib.:

2021.07.14

Start Time:

21:15:17

End Time:

03:16:41

Time On Btm:

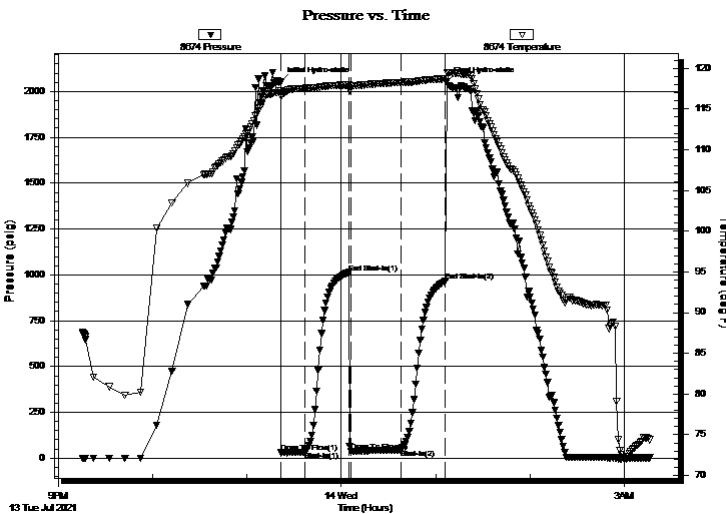
2021.07.13 @ 23:21:12

Time Off Btm:

2021.07.14 @ 01:07:12

TEST COMMENT: IF: 1/4 blow built to 3/4
IS: No return.
FF: Surface blow built to 1/2 died in 25 min.
FS: No return. 15-30-30-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2051.03	117.27	Initial Hydro-static
1	30.27	116.59	Open To Flow (1)
16	34.82	117.54	Shut-In(1)
44	1012.92	117.96	End Shut-In(1)
45	35.70	117.81	Open To Flow (2)
77	46.46	118.26	Shut-In(2)
105	964.93	118.71	End Shut-In(2)
106	2053.38	119.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	ocm 10%o 90%m	0.56

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

22-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Bloom 1-22

Job Ticket: 67462

DST#: 3

ATTN: Vern Schrag

Test Start: 2021.07.13 @ 21:15:12

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	ocm 10%o 90%m	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

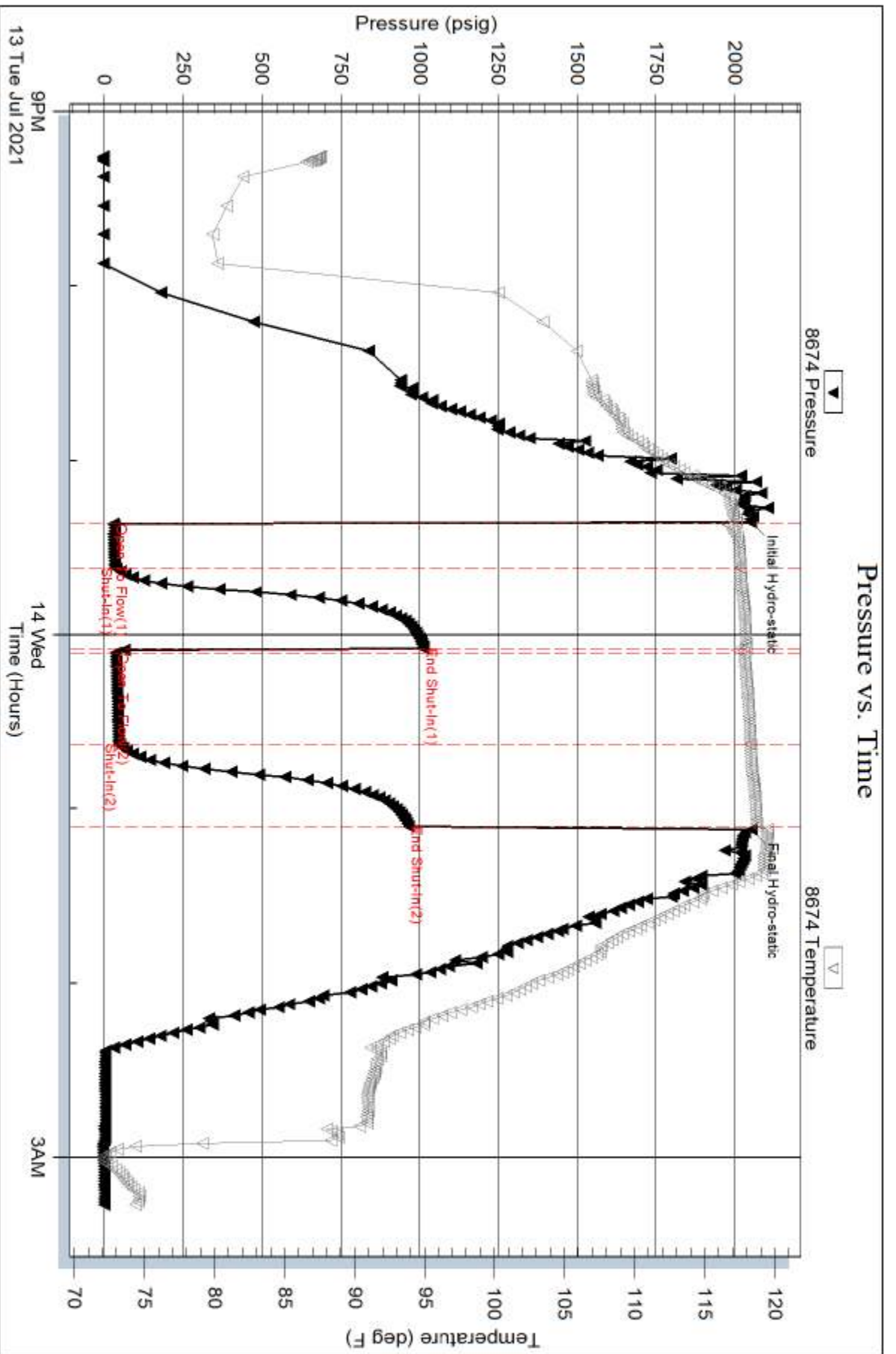
Recovery Comments:

Serial #: 8674

Outside Shakespeare Oil Co

Bloom 1-22

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67462

Printed: 2021.07.14 @ 07:00:34

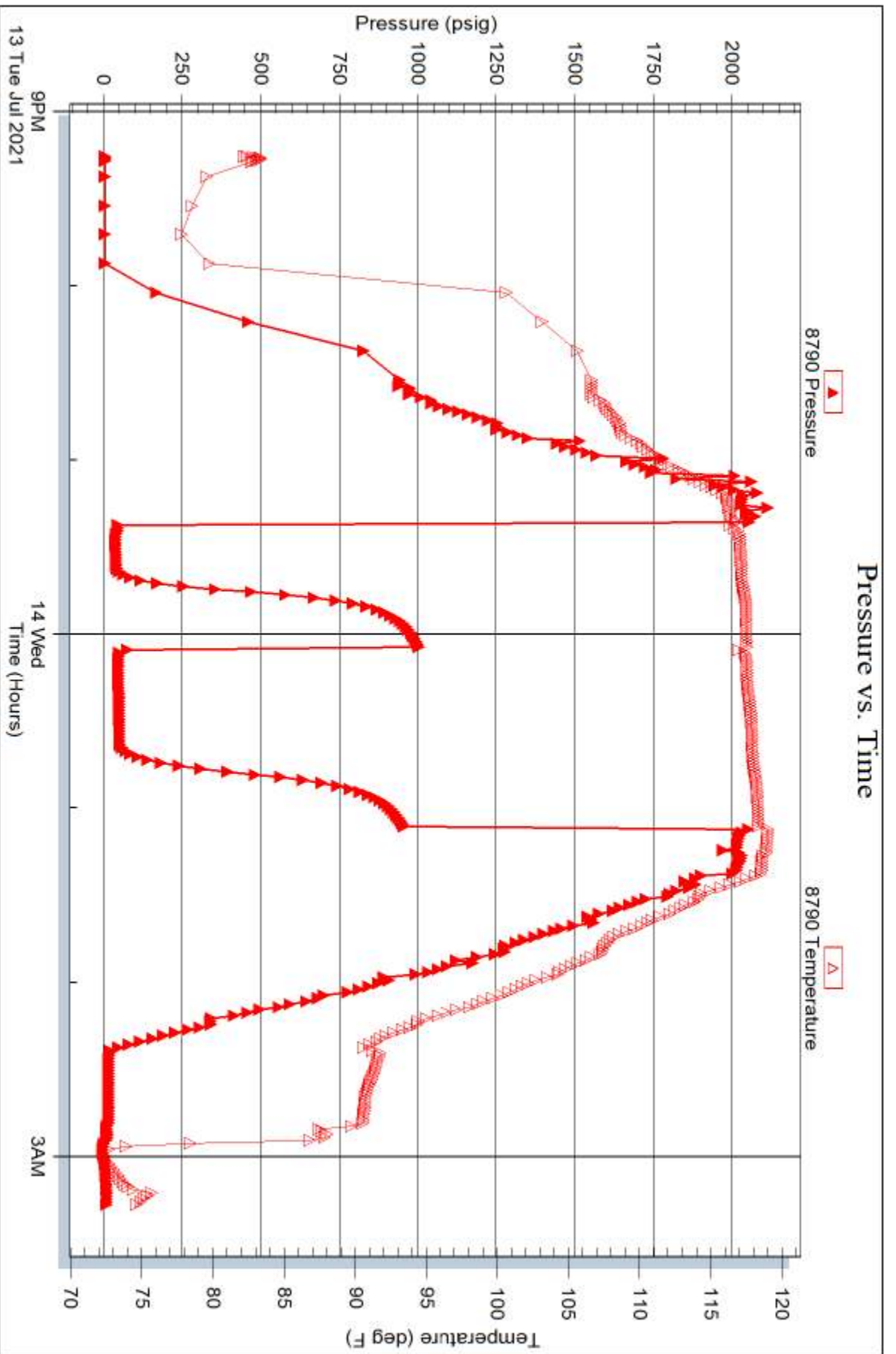
Serial #: 8790

Inside

Shakespeare Oil Co

Bloom 1-22

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67462

Printed: 2021.07.14 @ 07:00:34



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co

22-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Bloom 1-22

Job Ticket: 67463

DST#: 4

ATTN: Vern Schrag

Test Start: 2021.07.15 @ 11:30:00

GENERAL INFORMATION:

Formation: **Myrick**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:30:00

Time Test Ended: 19:26:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4423.00 ft (KB) To 4476.00 ft (KB) (TVD)

Reference Elevations: 2970.00 ft (KB)

Total Depth: 4476.00 ft (KB) (TVD)

2960.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8674 Outside

Press@RunDepth: 278.59 psig @ 4424.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.07.15

End Date: 2021.07.15

Last Calib.: 2021.07.15

Start Time: 11:30:05

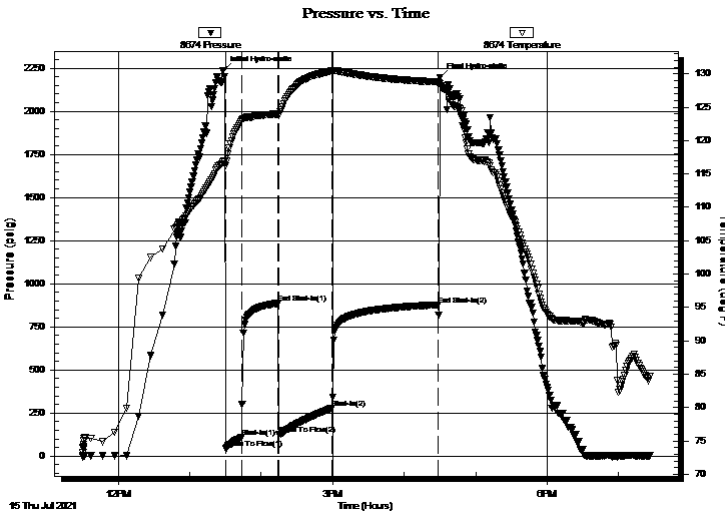
End Time: 19:25:59

Time On Btm: 2021.07.15 @ 13:28:00

Time Off Btm: 2021.07.15 @ 16:30:00

TEST COMMENT: IF: BOB in 5 min. 23
IS: Surface blow buit to 1
FF: BOB in 6 min 40
FS: Surface blow buit to 5 died in 3 1/2. 15-30-45-90

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.65	116.73	Initial Hydro-static
2	45.78	116.19	Open To Flow (1)
16	110.52	122.99	Shut-In(1)
46	885.62	123.93	End Shut-In(1)
47	125.98	123.70	Open To Flow (2)
92	278.59	130.40	Shut-In(2)
181	877.53	128.78	End Shut-In(2)
182	2195.59	128.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	2.65
189.00	gocmw 15%g 5%o 40%w 40%m	2.65
189.00	gocw m 30%g 20%o 10%w 40%m	2.65
0.00	504 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

22-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Bloom 1-22

Job Ticket: 67463

DST#: 4

ATTN: Vern Schrag

Test Start: 2021.07.15 @ 11:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

29000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
189.00	mcw 90%w 10%m	2.651
189.00	gocmw 15%g 5%o 40%w 40%m	2.651
189.00	gocw m 30%g 20%o 10%w 40%m	2.651
0.00	504 GIP	0.000

Total Length: 567.00 ft

Total Volume: 7.953 bbl

Num Fluid Samples: 0

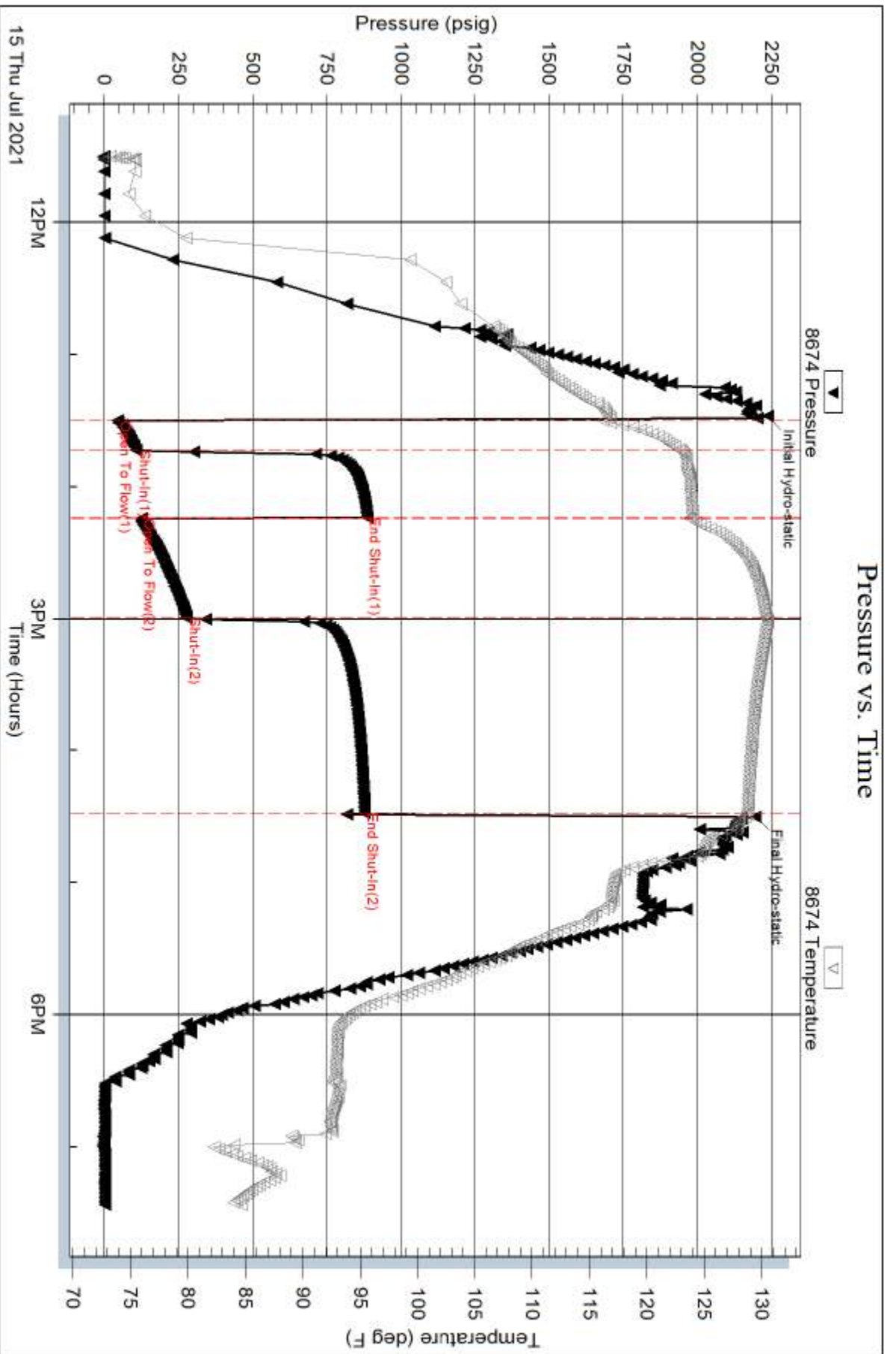
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .21@79=29000



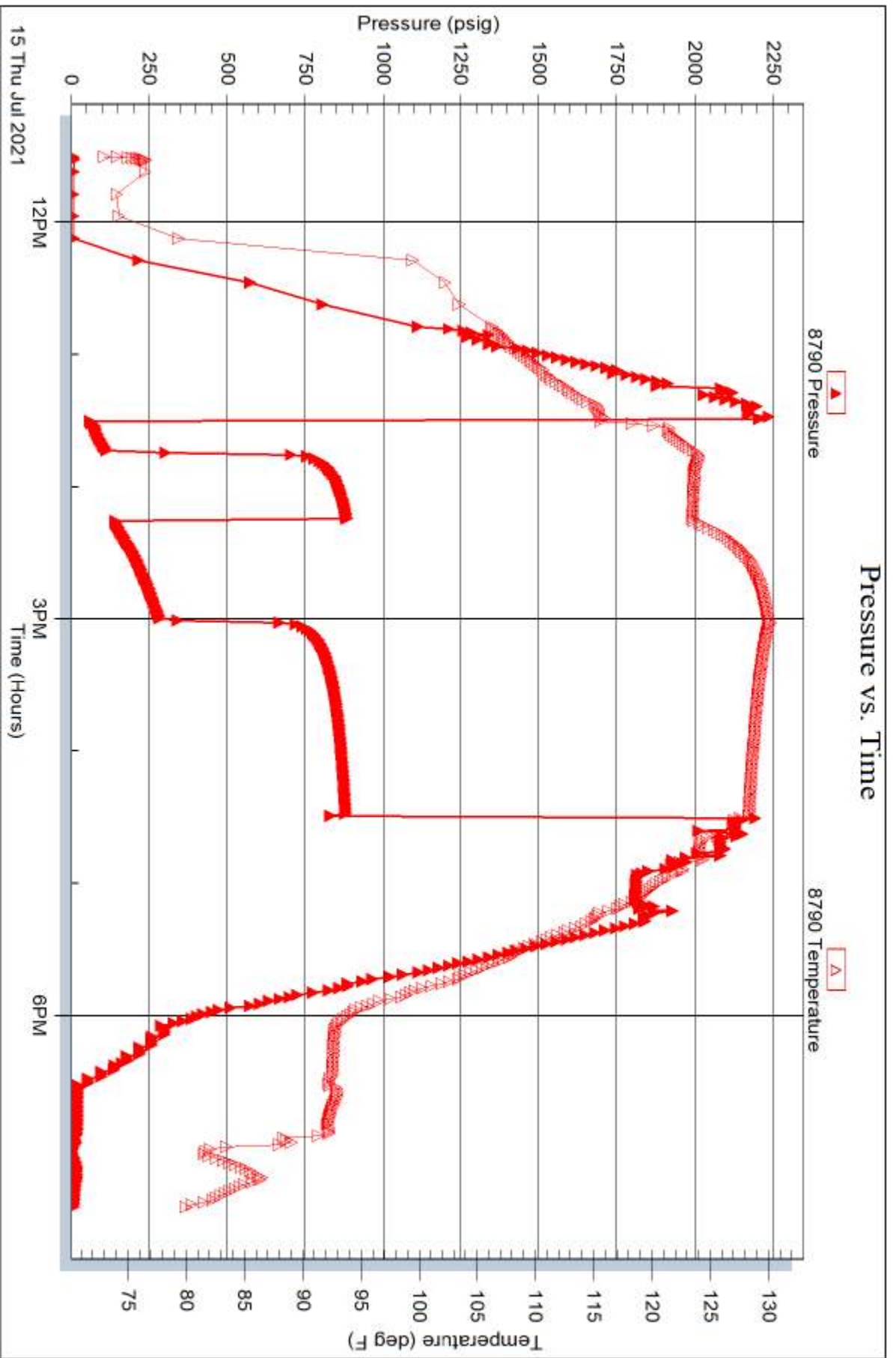
Serial #: 8790

Inside

Shakespeare Oil Co

Bloom 1-22

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 67463

Printed: 2021.07.15 @ 21:16:54

WELLSITE GEOLOGIST'S REPORT

VERNON C. SCHRAG
CONSULTANT GEOLOGIST



Scale 1:240 (5"=100') Imperial

<p>Well Name: BLOOM #1-22 Location: SE NE NW SW SEC. 22-11S-31W Licence Number: API: 15-063-22385 Spud Date: July 6, 2021 Surface Coordinates: 2023 FSL & 1195 FWL SW/4</p>	<p>Region: Gove Co., KS Drilling Completed: July 17, 2021</p>
<p>Bottom Hole Coordinates: Ground Elevation (ft): 2960' K.B. Elevation (ft): 2970' Logged Interval (ft): 3700' To: RTD Total Depth (ft): 4680' Formation: D&A Mississippi Type of Drilling Fluid: Chemical Premix (Displaced)</p>	

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

OPERATOR:

Company: Shakespeare Oil Co., Inc.
Address: 202 West Main Street
 Salem, IL 62881

DRILLING CONTRACTOR:

Southwind Drilling Co., Rig #8

DP 4.5" XH (16.6#); DC 6-1/4" x 2-3/8", 465.21'; Kelly 40.00', Tool Joint 5.5" ; Bit: 7-7/8", JZ-HA20, 3/14; rpm 80, WOB 35k; Kelly Bushing 10' above ground level; Doug Roberts (tool pusher).

CASING:

8-5/8" at 268'

CIRCULATION SYSTEM:

Continental EMSCO D-350, duplex, 6 x 14, 58 spm, Chemical, premix, earth pits, MudCo/Service Mud, Inc., Reid Atkins.

GAS DETECTION SYSTEM:

None.

DRILL STEM TESTS:

Trilobite Testing, Inc., Scott City, KS, Brandon Turley.

OPEN HOLE LOGS:

DN (PE), DI (SP), ML, Sonic; 5" detail LTD-3600; 2" DI to surface casing; ELI Wireline Services, Hays, KS, Gus Pfanenstiel.

ROP ROP (min/ft) Five Ten	DST	Lithology Penalty and Stone	Depth	Geological Descriptions	Total Gas TG (units) Five One
			3750	LS: It grayish brown; vf-xtal; sli granular at most, sli chalky; no visible porosity; N.S. LS: It brown; mic-vf xtal; sli fos-frag; chalky; tight int frag porosity; N.S. LS: grayish brown; vf-xtal; granular; tight int-gran porosity at best; N.S. LS: as above.	
			3800	LS: It brown; mic-vf xtal; fos-frag in part; sli chalky; dull fluor; tight int frag porosity; N.S. LS: grayish brown; mic-vf xtal; sli oolitic; only very dull fluor; tight int grain porosity; N.S. LS: It brown; mic-vf xtal; sli granular; chalky in part; much even dull yellow mineral fluor; tight int gran porosity; N.S., 90% 3830 thru 3870. LS: as above.	
			3850	LS: grays; vf-xtal; scattered dark pellets; poor porosity; N.S. Shale: black; trace. Siltst: greenish gray; scattered dark pellets; calcareous; N.S.; 3880, incr 3890. Shale: grays; LS: grayish brown; vf-xtal; mostly dense; sli granular at best; poor porosity; N.S.	
			3900	LS: It brown; mic-vf xtal; sli granular; poor porosity; N.S. LS: as above; LS: md-dk brown; vf-xtal; dense; sli granular in part; trc very fine oomoldic porosity; tight; N.S. LS: lt-md brown; vf-xtal; sli chalky; poor porosity; N.S. Poor sample at 3890, 5-10% permian slough, much dk shale;	
			3950	HEEBNER SH 3971 (-1001) Shale: black; carbonaceous; 20% of 3980-20m LS: dk grayish brown; vf-xtal; dense; 40m. Shale: mostly green, some gray; LS: very lt brown; mic-vf xtal; dense, angular; opa; chert; dull mineral fluor; no visible porosity; N.S., no dry stains; 20,40,60m.	
			4000	LANSING 4003 (-1033) LS: It brown; mic-vf xtal; packed oolite; trc fine vug w/SSO 20m; 10% poor-fair int ool & vug porosity w/spotted bright fluor & associated dry stains, crush SO 40m, faint odor at stove 60m; LS: It brown to gray; mic-vf xtal; dense to chalky in part; smooth, no grain; N.S. 4030. Shale: maroon, marly, 4050 washes red. LS: grayish brown; vf-xtal; grain suptd oolite w/light int ool & scattered vug porosity; tight & stels w/SSO at best, 10-15% sptd - sat dry stains & yel fluor 4060 stop, decr 20m. LS: It brown; mic-vf xtal; minor opa; chert; trace pin-pt vug w/sli stain, evasive, looks very tight, mostly no pin porosity, N.S., 20,40,60m. LS: It brn to gray; mic-vf xtal; dense; smooth, no grains; no visible porosity; N.S. LS: as above. LS: It brown; vf-xtal; fine to med vug porosity w/slight druse, very light spotted stn & fluor; crush few micro-drops oil; 5-10% 4090, incr 20m,40m, only 2-5% dry stain & decr fluor; LS: It brown; vf-xtal; rough textured; no grains; fine part; weak acid react indicating dolomitic in part; only dull fluor; poor visible porosity; prob tight int xtal por; no visible stains or oil; LS: It brown; mic-vf xtal; dense, angular; few if any grains; N.S. LS: as above but more chalky; N.S. Shale: various green, gray, maroon. MUNCIE CREEK SH 4146 (-1176) Shale: black; carbonaceous; good 25-40% rep in 4160 sample. LS: dk grayish brown; vf-xtal; scattered fos-frag; trc opa; chert; trc lt brn grains; dense; N.S. LS: It brown; vf-xtal; trc vug porosity w/lt brn spotted stain, <1% 4175 stop, 20m, decr 40m; 25-50% even fluor 4175 stop but not after; no live oil; LS: dk grayish brown; vf-xtal; no grains; dense, hard; N.S., much at 4200. LS: It brown; mic-vf xtal; no grains, smooth; scattered fine vug porosity, shallow, looks very tight; lt brn stain, crush very few micro-drops, trc spotted fluor; <1% 4203 stop, 20m. Shale: gray, green, maroon LS: It brown; vf-xtal; granular in part, sli oolitic & fos-frag; tight int grain & medium vug porosity w/weak fluor; crush very few micro-drops & gas bubbles; only trace dry stain; <1% 4229, decr 20m.	
			4050	STARK SH 4230 (-1260) Shale: black; carbonaceous; 80% 4240. LS: dk brown; vf-xtal; trc sulfides; poor porosity; v-dull fluor; N.S., probably shaley; 4250. LS: It grayish brown w/grayish streaks & spots; mic-vf xtal; granular in part; chalky; poor porosity; 1-2% bright fluor but only trc of visible very light stains; poor cuts from dry stains; 4260, 4260-20m, 40m.	
			4100	HUSHPUCKNEY SH 4265 (-1285) Shale: black; carbonaceous; 4280, incr 4290. LS: dk brown; vf-xtal; dense; N.S. Shale: green, grays LS: various, brown, gray; platy; some chalky; dense in part; dull fluor; no visible porosity, N.S. except 1 chip w/fair vug & pin pt dry stains 20m, N.S. 40m. also various shale before 40m. Shale: gray; calcareous, marly Shale/Siltst: greenish; calcitic; sli pyritic; w/chalky limes in part; Shale: maroon, marly, 4330. MARMATON 4322 (-1352) LS: It grayish-brown; vf-xtal; sli. granular; about 1% bright yel fluor which yields many micro-drops after crushing; looks tight; very poor dry stains at best; 4340. LS: It brown; vf-xtal; no visible porosity, N.S. LS: It brown, mixed w/maroon spotted shaley limes; almost no fluor; N.S., 4360. LS: It brown; vf-xtal; mostly dense, angular; sli oolitic in part; sli chalky; poor porosity; very dull fluor; N.S. Shales: mostly dk gray, lesser green; LS: mostly lt brown, some gray; vf-xtal; platy; no visible porosity; N.S., with much shale.	
			4150	LS: It brown; vf-xtal; mostly dense to sli chalky in part; no visible porosity; N.S., 4430. LS: grayish brown; vf-xtal; dense; w/grayish shale; N.S. LS/Shale: as above; MYRICK STATION 4458 (-1488) Shale: black; carbonaceous; 20% at 4460. LS: dk brown; vf-xtal; dense; N.S. Shale: grays LS: It gray; vf-xtal; 5-10% soft, white, brightly fluor chalk; trc int grain por w/ sli gassy SSO 4476 stop. 10% fluor & 1% spotted dry stains in poor vug porosity, SSO, 20m, decr 40m. Fluor is decreased in dry samples. Shale: black, carbonaceous; FT SCOTT 4485 (-1515) LS: lt-md grayish brown; mic-vf xtal; dense, platy; trc gray chert; no visible porosity; N.S.	
			4200	LOWER CHEROKEE SH 4510 (-1540) LS: It grayish brown; vf-xtal; dense; smooth; no grains; chalky in part; N.S. LS: It brown to grayish-brn; mic-vf xtal; dense; platy, angular; no grains; smooth; no visible porosity; N.S. LS: as above. LS: grayish brown; vf-xtal; mostly dense, N.S., 1 chip vug porosity w/dk brown spotted stain & very few micro-drops at 4575. B/JOHNSON 4570 (-1600) Sand: quartz; gray to greenish; f-m grain; trc f-glauc; rounded clusters, partly mod-well cam; specked dark stains w/spots black oil that do not fluor; 4575-40,60m. Show decr 4580-CFS and after. Sand/Sh:LS: white sand, gray to green sh mixed w/lt-md brown limes at 4590. Sand: white; vf-f grain; looks very tight; incr at 4600. Trc oxidized cherts at 4600-40m. MISSISSIPPI LS 4599 (-1629) LS: It brown to cream; vf-xtal; chalky in part; mostly dense; dull fluor; poor porosity at best; N.S.; 4610. LS: as above. MISSISSIPPI DOL 4630 (-1660) DOL: even brown to tan; vf-f xtal; fair int xtal & coarse vug porosity, N.S., few chips 4640, incr 4650. DOL: as above; DOL: dk brown & gray mottled; vf-f xtal; fos-frag; tight; N.S., 4670. DOL: as above. ROTARY TOTAL DEPTH 4680 (-1710)	
			4250		
			4300		
			4350		
			4400		
			4450		
			4500		
			4550		
			4600		
			4650		
			4680		

RTD 4680
2:35 am 07/17/2021



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
7/6/2021	35115

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

RECEIVED
JUL 19 2021

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-22	Bloom	Logan	Southwind	Oil	Development	Shallow Surface	David
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	5.00	350.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	925.00	925.00
290	D-Air				2	Gallon(s)	42.00	84.00T
325	Standard Cement				170	Sacks	13.50	2,295.00T
279	Bentonite Gel				3	Sack(s)	30.00	90.00T
278	Calcium Chloride				7	Sack(s)	40.00	280.00T
581D	Service Charge Cement				170	Sacks	1.85	314.50
583D	Drayage				504	Ton Miles	0.95	478.80
	Subtotal							4,817.30
	Sales Tax Logan County						8.00%	219.92

INT

*502.5
for*

We Appreciate Your Business! **Total** *DW* \$5,037.22

JOB LOG

SWIFT Services, Inc.

DATE
7-6-21

PAGE NO.

CUSTOMER SHAKESPEARE		WELL NO. 1-22		LEASE Bloom		JOB TYPE Shallow Surf.		TICKET NO. 35115
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1800							ON LOCATION
								8 5/8 CSG
								RTD - 272
								PIPE - 268
	1900							BRKAR Circ
	1930	5	10			200		Pump WTR SPACER
		5	41			200		pump cmt - 170 sx @ 14.7 PPG
		5	0			250		START Disp
		5	10			300		Circ cmt
	1945	5	15.75			400		END Disp
								SHUT IN
								CIRCULATED 25 SX CMT TO PIT
								JOB COMPLETE
								THANKS
								DAVID, ZACH & ISAAC

SWIFT



P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
7/17/2021	33832

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

RECEIVED

JUL 26 2021

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-22	Bloom	Gove	Southwind	Oil	Workover	PTA	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575W	Mileage - 1 Way				70	Miles	5.00	350.00T
576W-P	Pump Charge - PTA				1	Job	925.00	925.00T
328-4	60/40 Pozmix (4% Gel)				255	Sacks	11.00	2,805.00T
276	Flocele				50	Lb(s)	3.00	150.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
410-8	8 5/8" Top Plug				1	Each	130.00	130.00T
581W	Service Charge Cement				255	Sacks	1.85	471.75T
583W	Drayage				747.02	Ton Miles	0.95	709.67T
	Subtotal							5,625.42
	Sales Tax Gove County						8.50%	478.16
We Appreciate Your Business!							Total	\$6,103.58

PTA
INT
Plugging cement
502-5
7m

6

DW 9

JOB LOG

SWIFT Services, Inc.

DATE 17 Jul 21 PAGE NO. 1
TICKET NO. 33832

CUSTOMER Shakespeare WELL NO. 1-27 LEASE Bloom JOB TYPE Plug to Abandon

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								275 sk 60/40 pozmix (4% gel) w/ 1/4" floccul 4 1/2" drill pipe soft mud
	1600							on loc TRK 113 Running pipe to 2500'
	1628		13					MIX 1st plug 60/40 pozmix (4%) @ 13.1 50 sk
	1835		32					Displace to 2200' Pull pipe to 1525'
	1956		26					MIX 2nd plug 60/40 pozmix (4%) @ 13.1 Displace to 1051' 100 sk Pull pipe to 325'
	2050		13					MIX 3rd plug 60/40 pozmix (4%) @ 13.1 Displace to 88' 50 sk Pull pipe out
	2140		14					Break Kelly by down Rtt-MH MIX 60/40 poz - 100 sk @ 40" Rtt - 30 sk MH - 20 sk
	2155							→ Cement slurry at surface ← Wash truck (250 sk total mixed)
	2230							Rack up job complete Plug down 2200 10 pm for civilians



CHARGE TO: Shakespear
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET **33832**

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Madison, KS
 2. Hay 13
 3.
 4. REFERRAL LOCATION

WELL/PROJECT NO. 1-22 LEASE Blom COUNTY/PARISH Cove STATE KS CITY Campus OWNER
 CONTRACTOR Southwind RIG NAME/NO. 500 SHIPPED VIA CT DELIVERED TO location ORDER NO.
 WELL TYPE 017 WELL CATEGORY WELLNER JOB PURPOSE Plug to Abandon WELL PERMIT NO. 22-11-31 WELL LOCATION

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		2			70	mi			5.00	350.00
576P		2		MILEAGE TRX 113	1	ea			925.00	925.00
328-4		1		Pump Change (PTA)	255	sk			11.00	2805.00
276		1		60/40 PZWX (40/60)	50	lb			3.00	150.00
290		2		Flare	2	gal			42.00	84.00
410		1		D-AIR	8	in		1 ea	130.00	130.00
581		1		plug	255	sk			1.85	471.75
583		1		service charge	21343	lb	747.02	TM	0.95	709.67
				Drainage						

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED _____ TIME SIGNED _____

SWIFT OPERATOR [Signature] APPROVAL _____

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 5625.42

TAX 600

TOTAL 6103.58

Thank You!