

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	FRANZ 1-26
Doc ID	1640239

Tops

Name	Top	Datum
Anhydrite	2405	+501
Heebner	3886	-980
Lansing	3926	-1020
Muncie Creek	4063	-1157
Stark Shale	4148	-1242
Hushpuckney	4182	-1276
Pawnee	4328	-1422
Johnson	4467	-1561
Mississippian	4487	-1581



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

Job Ticket: 68736

DST#: 1

ATTN: Kent Matson

Test Start: 2022.03.21 @ 14:17:43

GENERAL INFORMATION:

Formation: **Toronto- Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:34:43

Time Test Ended: 20:25:43

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 3903.00 ft (KB) To 3950.00 ft (KB) (TVD)

Reference Elevations: 2906.00 ft (KB)

Total Depth: 3950.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8674 Outside

Press@RunDepth: 77.69 psig @ 3908.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.21

End Date:

2022.03.21

Last Calib.:

2022.03.21

Start Time: 14:17:48

End Time:

20:25:42

Time On Btm:

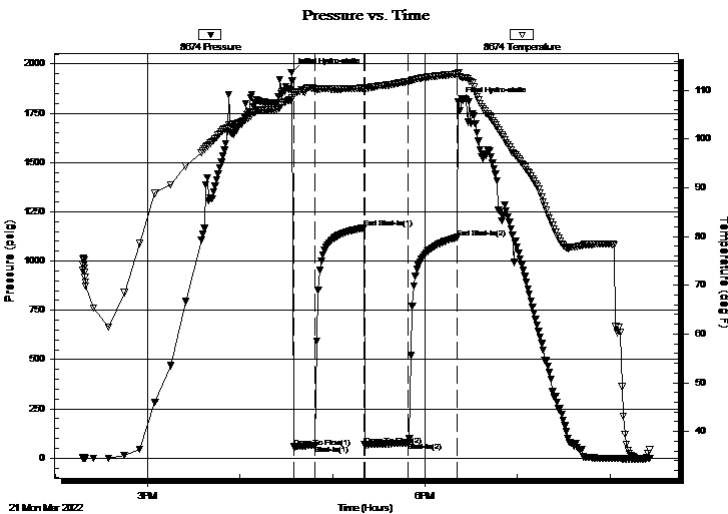
2022.03.21 @ 16:33:13

Time Off Btm:

2022.03.21 @ 18:21:43

TEST COMMENT: IF: 7 blow built to 7 3/4. tool slid 10'
IS: No return.
FF: Surface blow built to 2 1/2.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1957.32	108.13	Initial Hydro-static
2	57.17	109.14	Open To Flow (1)
16	64.36	110.25	Shut-In(1)
47	1167.77	110.49	End Shut-In(1)
48	67.05	110.08	Open To Flow (2)
76	77.69	111.86	Shut-In(2)
108	1119.86	113.36	End Shut-In(2)
109	1810.90	113.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud 100%m	1.68

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

ATTN: Kent Matson

Job Ticket: 68736

DST#: 1

Test Start: 2022.03.21 @ 14:17:43

GENERAL INFORMATION:

Formation: **Toronto- Lansing A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:34:43

Time Test Ended: 20:25:43

Interval: **3903.00 ft (KB) To 3950.00 ft (KB) (TVD)**

Total Depth: 3950.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 2906.00 ft (KB)

2895.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8790 Inside

Press@RunDepth: psig @ 3908.00 ft (KB)

Start Date: 2022.03.21

End Date:

2022.03.21

Capacity: 8000.00 psig

Last Calib.:

2022.03.21

Start Time: 14:17:19

End Time:

20:25:13

Time On Btm:

Time Off Btm:

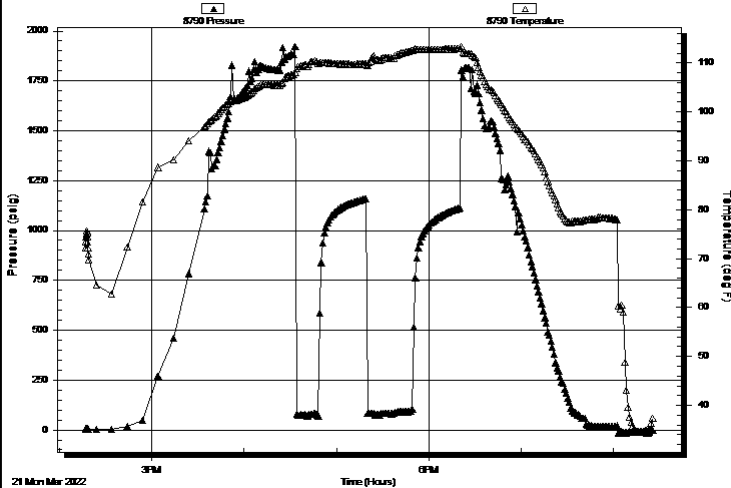
TEST COMMENT: IF: 7 blow built to 7 3/4. tool slid 10'

IS: No return.

FF: Surface blow built to 2 1/2.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud 100%m	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

Job Ticket: 68736

DST#: 1

ATTN: Kent Matson

Test Start: 2022.03.21 @ 14:17:43

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud 100%m	1.683

Total Length: 120.00 ft Total Volume: 1.683 bbl

Num Fluid Samples: 0

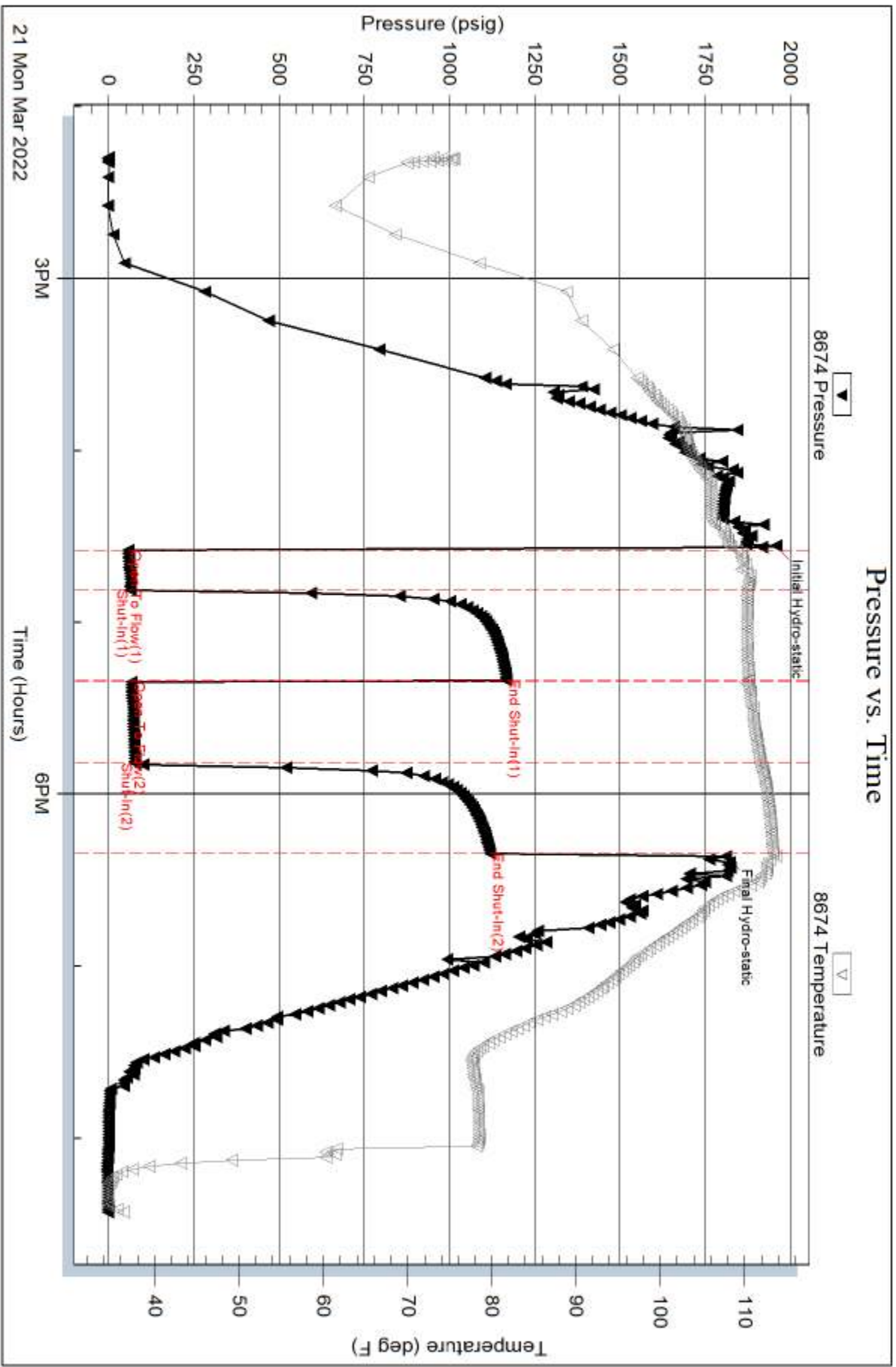
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



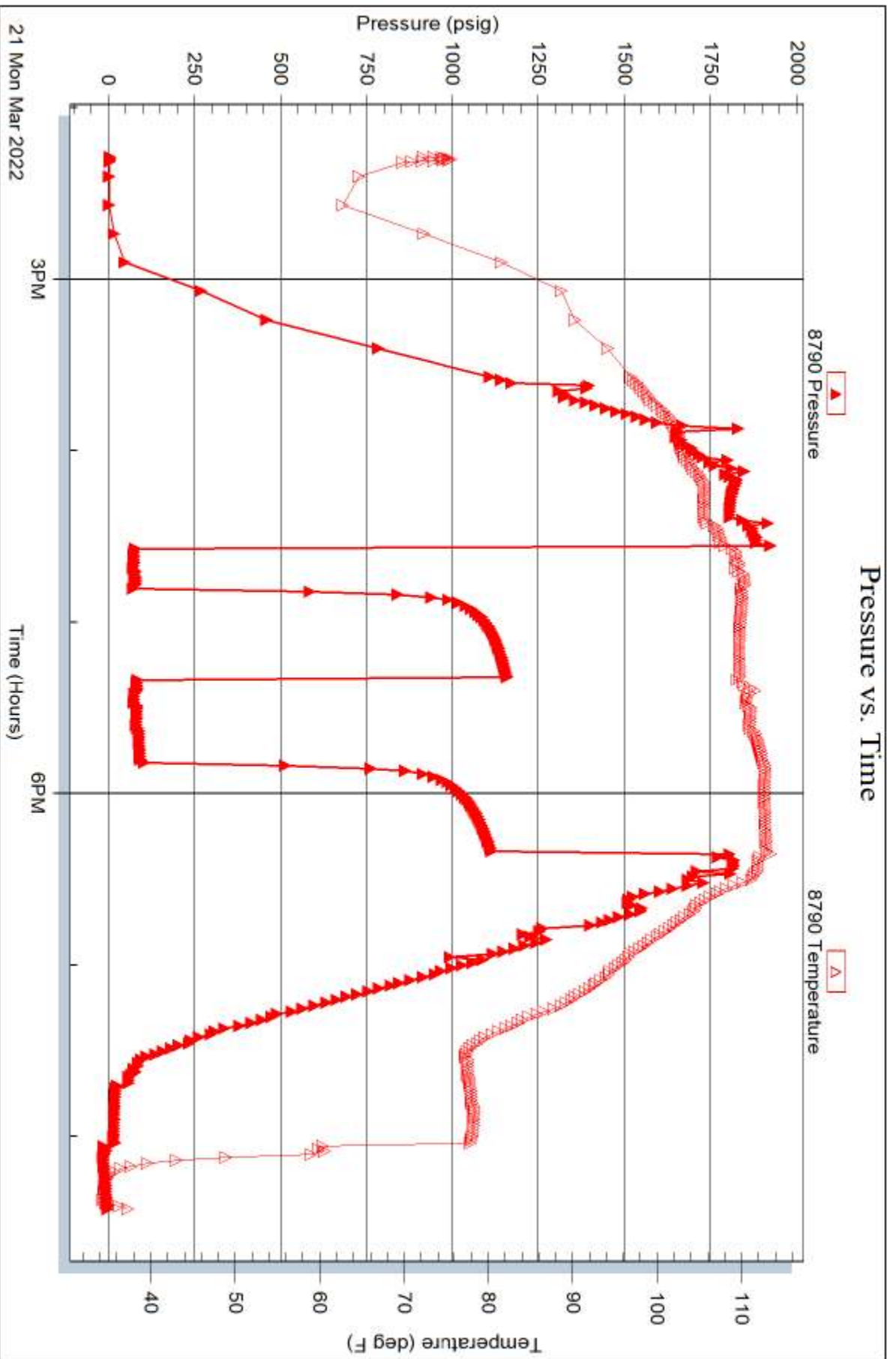
Serial #: 8790

Inside

Shakespeare Oil Company

Franz 1-26

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68736

Printed: 2022.03.21 @ 20:56:42



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

Job Ticket: 68737

DST#: 2

ATTN: Kent Matson

Test Start: 2022.03.22 @ 09:46:26

GENERAL INFORMATION:

Formation: **Lansing BCD**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:19:56

Time Test Ended: 18:14:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 3952.00 ft (KB) To 4000.00 ft (KB) (TVD)

Reference Elevations: 2906.00 ft (KB)

Total Depth: 4000.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8674 Outside

Press@RunDepth: 544.52 psig @ 3957.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.22

End Date:

2022.03.22

Last Calib.:

2022.03.22

Start Time: 09:46:31

End Time:

18:14:25

Time On Btm:

2022.03.22 @ 12:18:26

Time Off Btm:

2022.03.22 @ 14:29:56

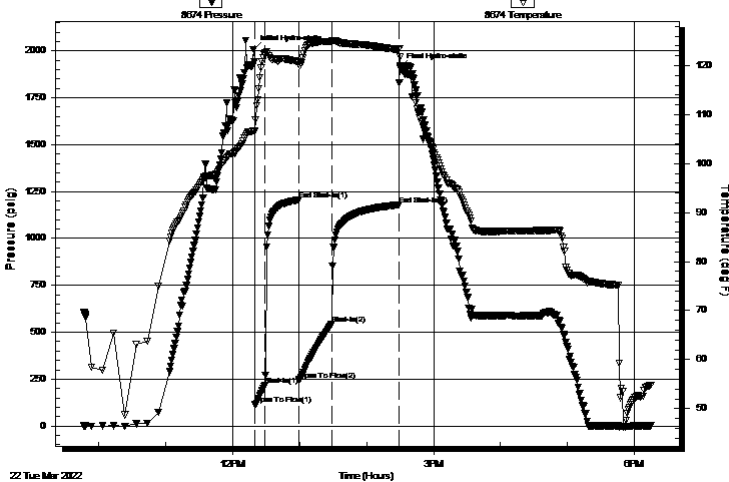
TEST COMMENT: IF: BOB in 2 mins. 57

IS: No return.

FF: BOB in 2 mins. 147

FS: BOB in 26 mins. 29 10-30-30-60

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2007.15	106.67	Initial Hydro-static
2	117.01	106.50	Open To Flow (1)
11	218.39	122.46	Shut-In(1)
41	1205.36	120.74	End Shut-In(1)
41	246.39	120.16	Open To Flow (2)
71	544.52	124.91	Shut-In(2)
131	1179.15	123.24	End Shut-In(2)
132	1910.65	121.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
614.00	go 10%g 90%o	8.61
500.00	gocw m 10%g 40%o 20%w 30%m ? drop	7.01 the
126.00	w cm 90% w 10%m	1.77
0.00	1054 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

Job Ticket: 68737

DST#: 2

ATTN: Kent Matson

Test Start: 2022.03.22 @ 09:46:26

GENERAL INFORMATION:

Formation: **Lansing BCD**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:19:56

Time Test Ended: 18:14:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 3952.00 ft (KB) To 4000.00 ft (KB) (TVD)

Total Depth: 4000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2906.00 ft (KB)

2895.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8790

Inside

Press@RunDepth: psig @ 3957.00 ft (KB)

Start Date: 2022.03.22

End Date:

2022.03.22

Start Time: 09:46:19

End Time:

18:14:13

Capacity: 8000.00 psig

Last Calib.:

2022.03.22

Time On Btm:

Time Off Btm:

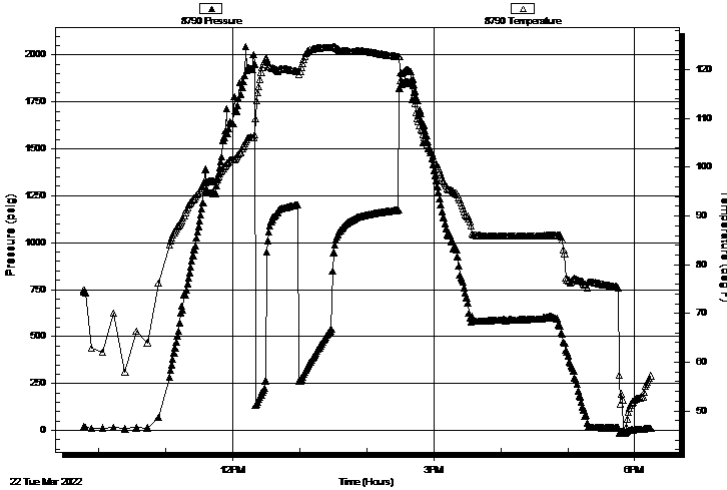
TEST COMMENT: IF: BOB in 2 mins. 57

IS: No return.

FF: BOB in 2 mins. 147

FS: BOB in 26 mins. 29 10-30-30-60

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
614.00	go 10%g 90%o	8.61
500.00	gocw m 10%g 40%o 20%w 30%m ? drop	7.01 the
126.00	w cm 90% w 10%m	1.77
0.00	1054 GIP	0.00

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 Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

Job Ticket: 68737

DST#: 2

ATTN: Kent Matson

Test Start: 2022.03.22 @ 09:46:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

100000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
614.00	go 10%g 90%o	8.613
500.00	gocw m 10%g 40%o 20%w 30%m ? dropped	7.014
126.00	w cm 90% w 10%m	1.767
0.00	1054 GIP	0.000

Total Length: 1240.00 ft Total Volume: 17.394 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

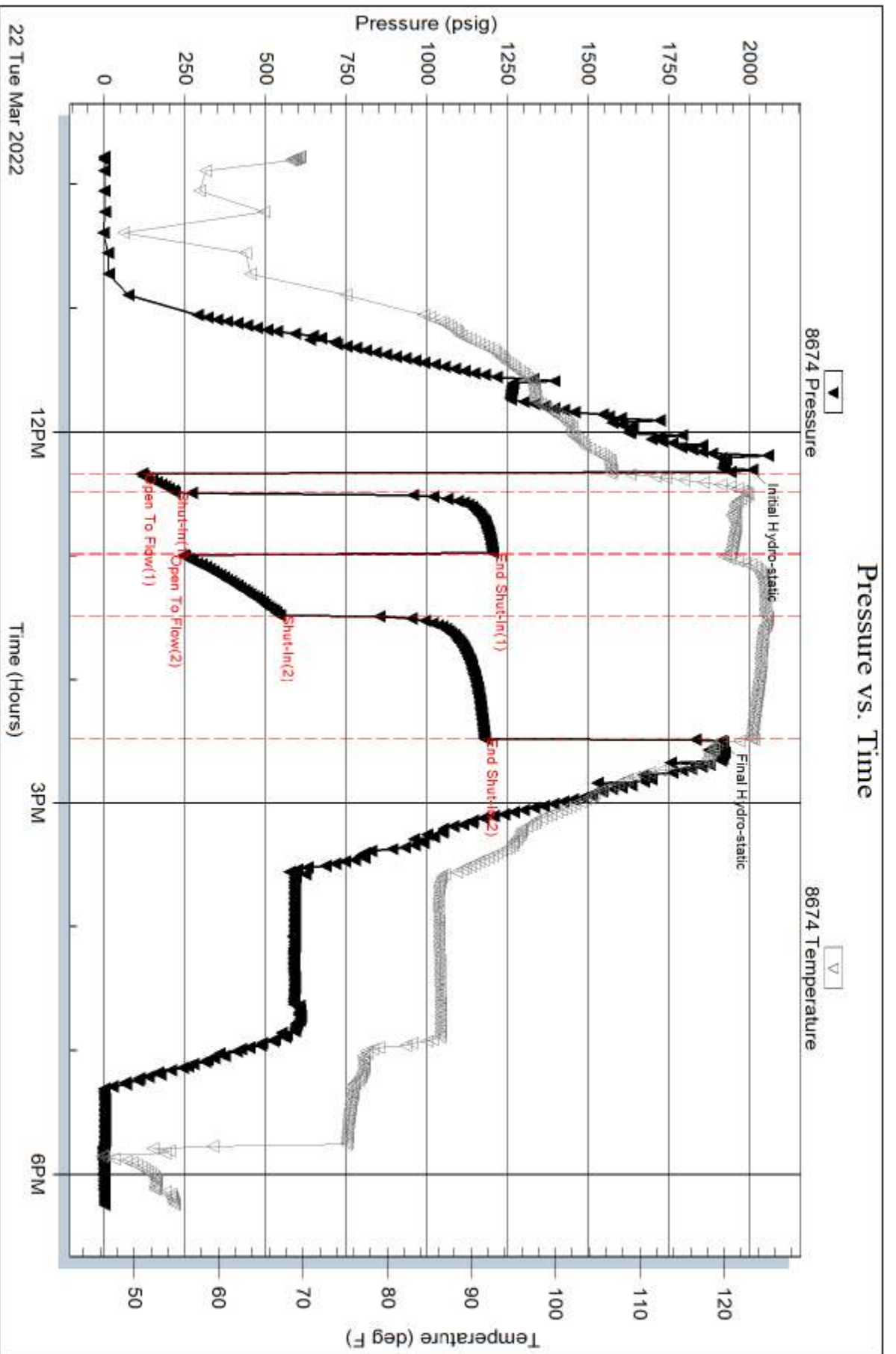
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 39@50=40

.12@47=100000



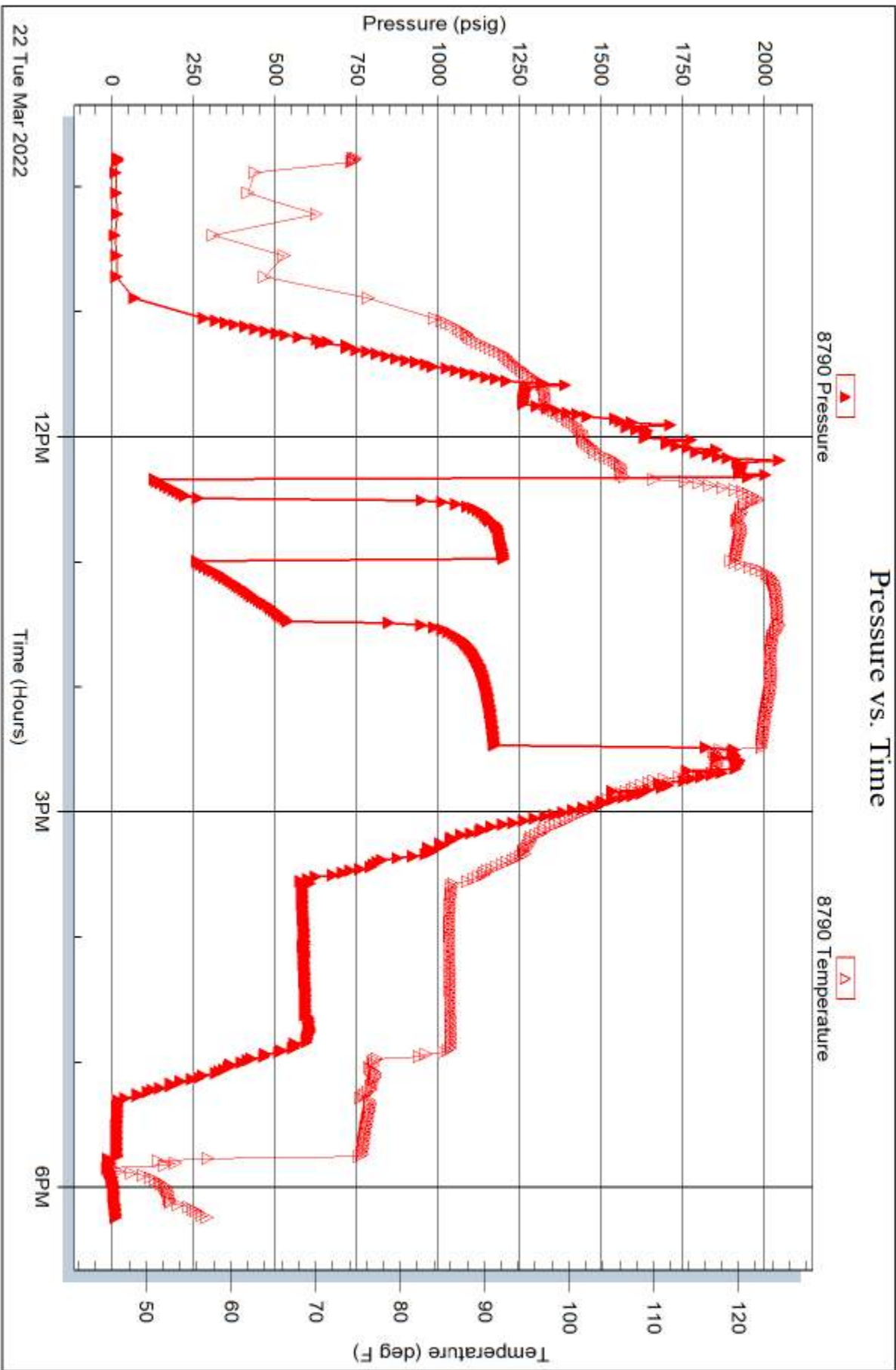
Serial #: 8790

Inside

Shakespeare Oil Company

Franz 1-26

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68737

Printed: 2022.03.22 @ 18:47:01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

Job Ticket: 68738

DST#: 3

ATTN: Kent Matson

Test Start: 2022.03.23 @ 02:46:49

GENERAL INFORMATION:

Formation: **Lansing E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:00:49

Time Test Ended: 10:46:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4001.00 ft (KB) To 4020.00 ft (KB) (TVD)

Reference Elevations: 2906.00 ft (KB)

Total Depth: 4020.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8674 Outside

Press@RunDepth: 330.53 psig @ 4006.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.23

End Date:

2022.03.23

Last Calib.:

2022.03.23

Start Time:

02:46:54

End Time:

10:46:18

Time On Btm:

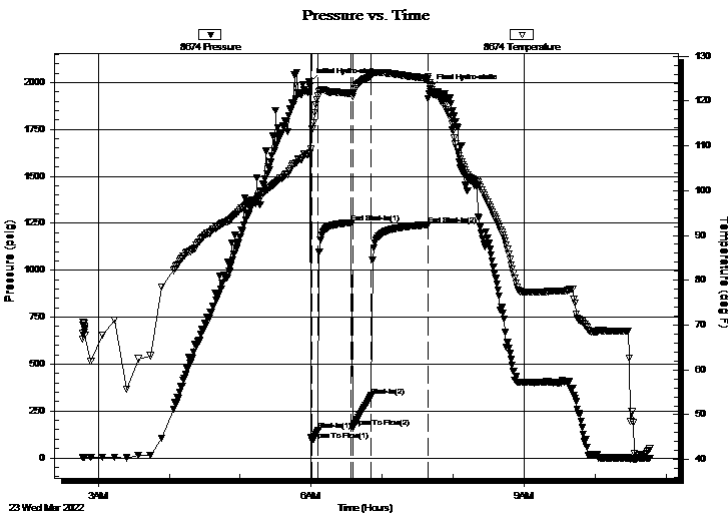
2022.03.23 @ 05:58:19

Time Off Btm:

2022.03.23 @ 07:40:19

TEST COMMENT: IF: BOB in 1 min. 63
IS: BOB in 12 min. 34
FF: BOB in 2 min. 102
FS: BOB in 11 min. 26 5-30-15-45

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.53	108.27	Initial Hydro-static
3	95.46	113.70	Open To Flow (1)
8	145.71	121.25	Shut-In(1)
36	1253.42	121.63	End Shut-In(1)
37	164.15	121.00	Open To Flow (2)
53	330.53	125.61	Shut-In(2)
100	1241.45	125.03	End Shut-In(2)
102	1966.68	123.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
725.00	go 15%g 85%o	10.17
126.00	gocw m 10%g 10%o 30%w 50%m	1.77
0.00	2125 GIP	0.00

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 Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

Job Ticket: 68738

DST#: 3

ATTN: Kent Matson

Test Start: 2022.03.23 @ 02:46:49

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

68000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 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
725.00	go 15%g 85%o	10.170
126.00	gocw m 10%g 10%o 30%w 50%m	1.767
0.00	2125 GIP	0.000

Total Length: 851.00 ft Total Volume: 11.937 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 38@40=40

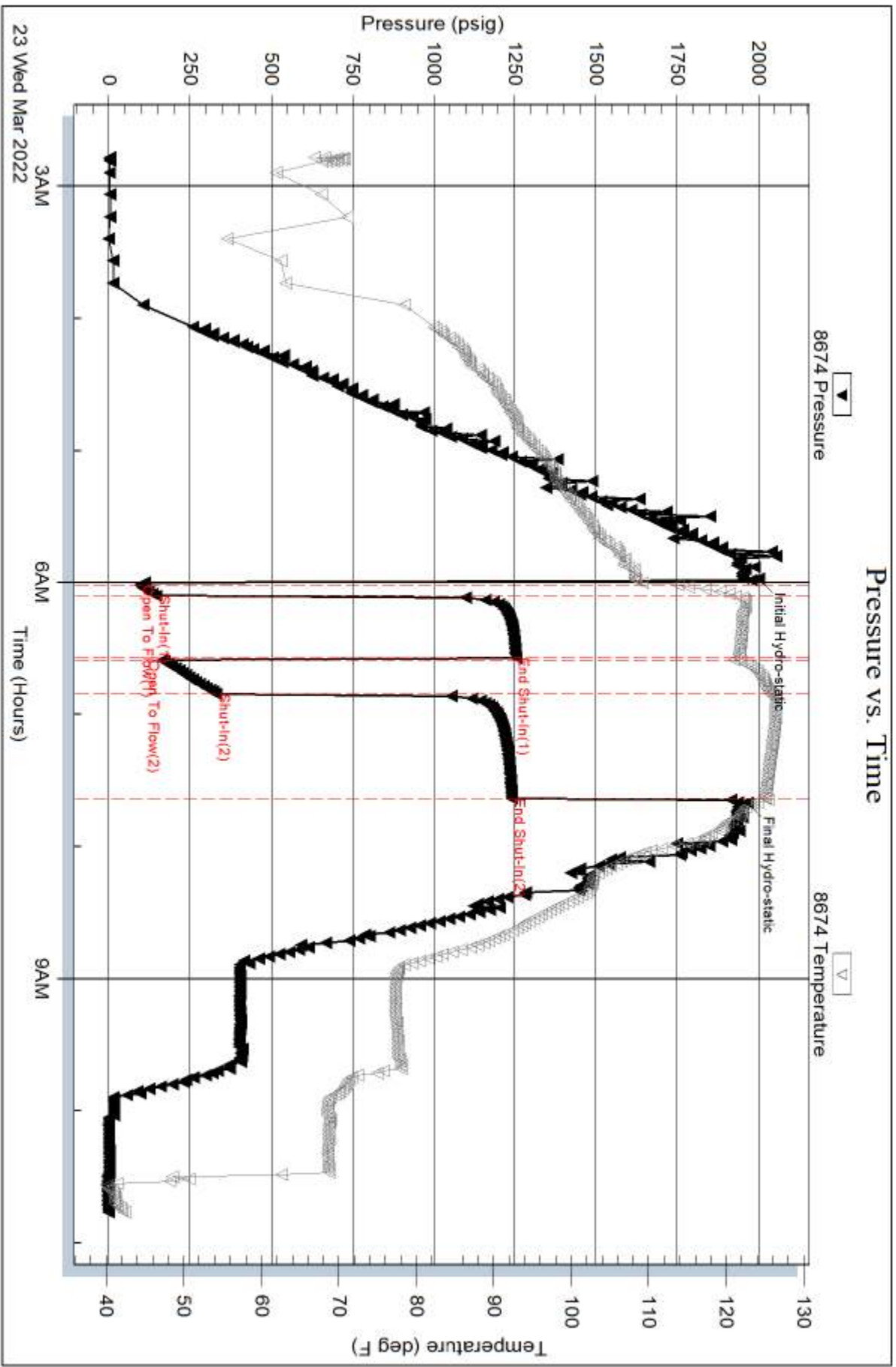
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Serial #: 8674

Outside Shakespeare Oil Company

Franz 1-26

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68738

Printed: 2022.03.23 @ 11:35:15

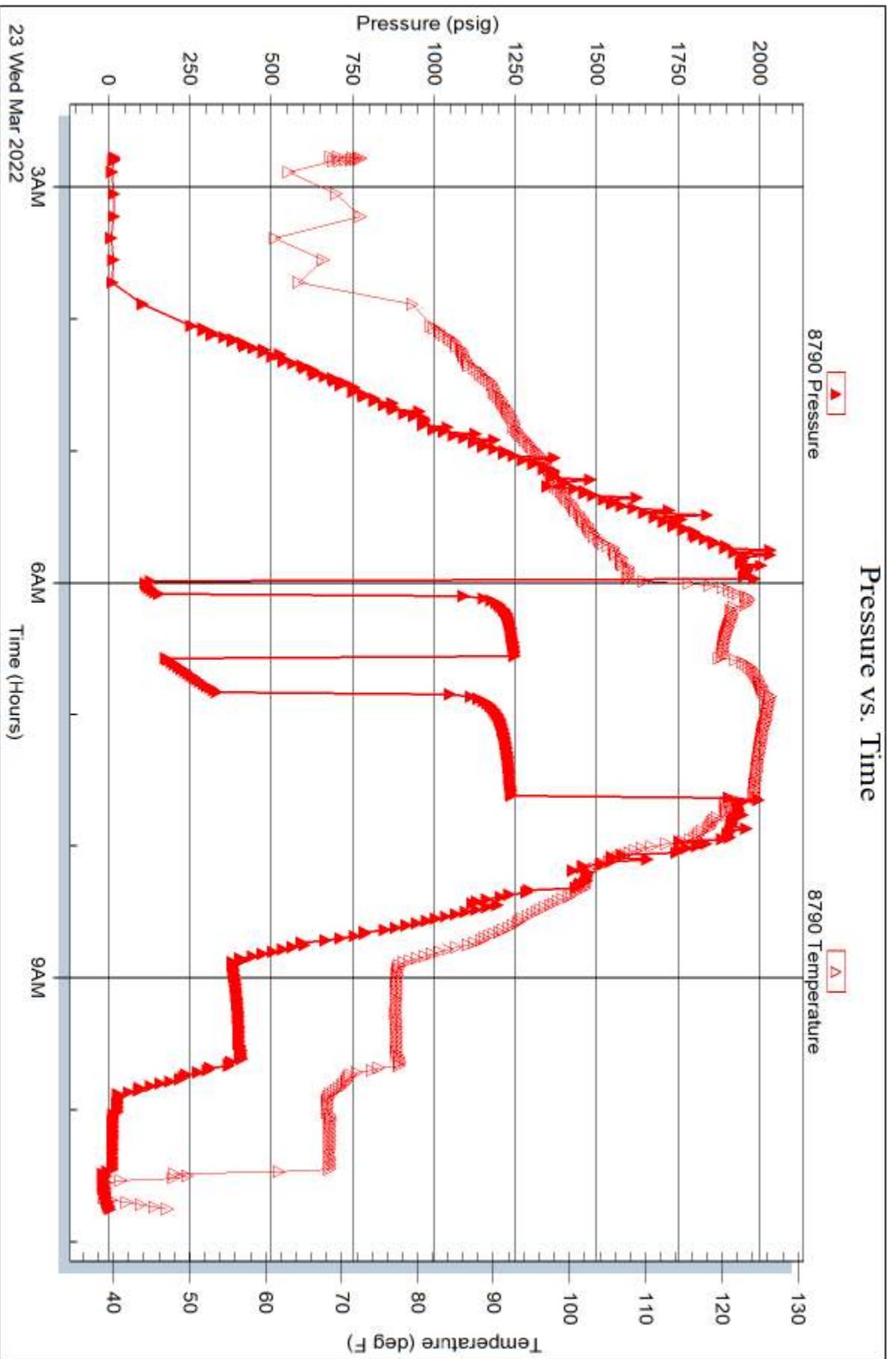
Serial #: 8790

Inside

Shakespeare Oil Company

Franz 1-26

DST Test Number: 3



23 Wed Mar 2022

Trilobite Testing, Inc

Ref. No: 68738

Printed: 2022.03.23 @ 11:35:15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

Job Ticket: 68739

DST#: 4

ATTN: Kent Matson

Test Start: 2022.03.24 @ 09:53:38

GENERAL INFORMATION:

Formation: **Lansing HIJ**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:14:08

Time Test Ended: 15:46:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4081.00 ft (KB) To 4155.00 ft (KB) (TVD)

Reference Elevations: 2906.00 ft (KB)

Total Depth: 4155.00 ft (KB) (TVD)

2895.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8674 Outside

Press@RunDepth: 125.23 psig @ 4086.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.24

End Date:

2022.03.24

Last Calib.:

2022.03.24

Start Time: 09:53:43

End Time:

15:46:07

Time On Btm:

2022.03.24 @ 12:13:38

Time Off Btm:

2022.03.24 @ 13:34:38

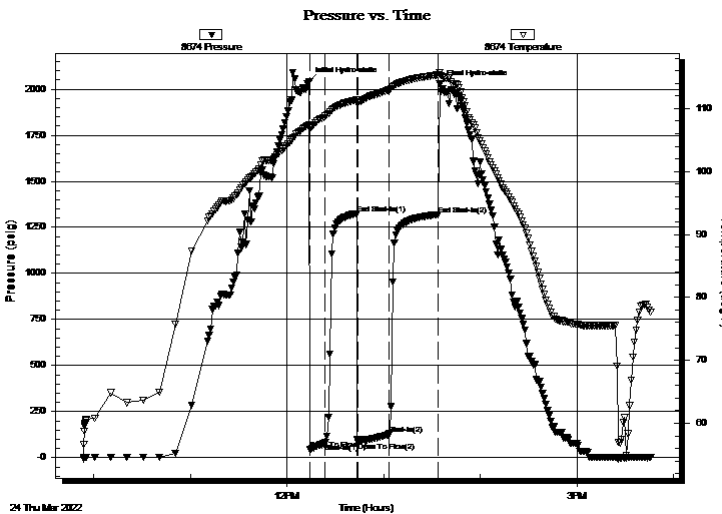
TEST COMMENT: IF: BOB in 4 mins. 35

IS: No return.

FF: BOB in 2 mins. 83

FS: 1/4 blow built to 5. 10-20-20-30

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2042.94	107.46	Initial Hydro-static
1	45.77	106.89	Open To Flow (1)
10	80.12	108.79	Shut-In(1)
30	1324.86	111.39	End Shut-In(1)
31	83.08	111.06	Open To Flow (2)
50	125.23	112.97	Shut-In(2)
80	1317.59	115.34	End Shut-In(2)
81	2027.18	115.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
268.00	w mcgo 30%g 45%o 5%w 20%m	3.76
0.00	1592 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 Company

26-11s-31w Gove Ks

202 W Main St
Salem IL 62881

Franz 1-26

Job Ticket: 68739

DST#: 4

ATTN: Kent Matson

Test Start: 2022.03.24 @ 09:53:38

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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 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 bbf
268.00	w mcgo 30%g 45%o 5%w 20%m	3.759
0.00	1592 GIP	0.000

Total Length: 268.00 ft Total Volume: 3.759 bbf

Num Fluid Samples: 0

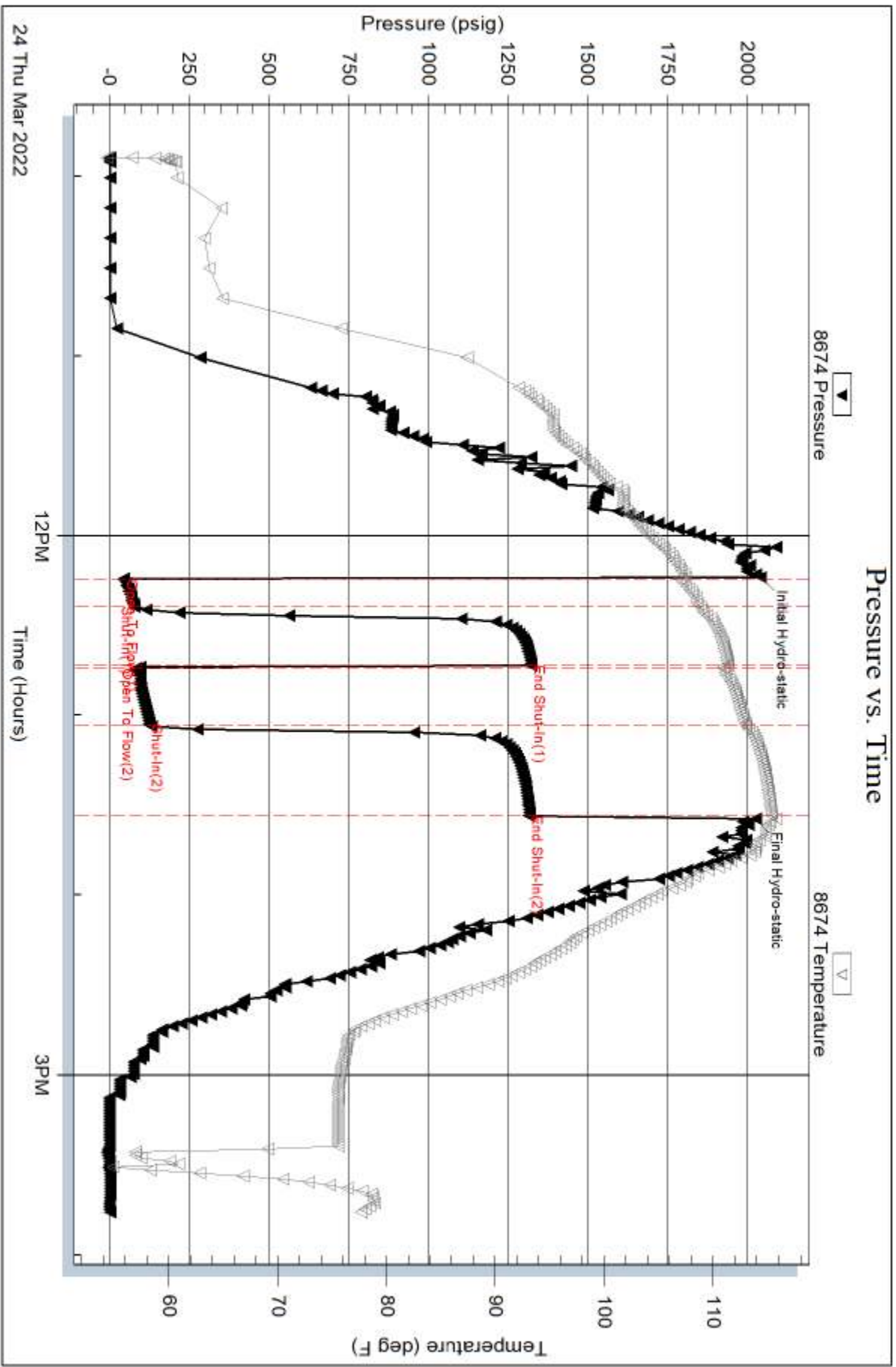
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



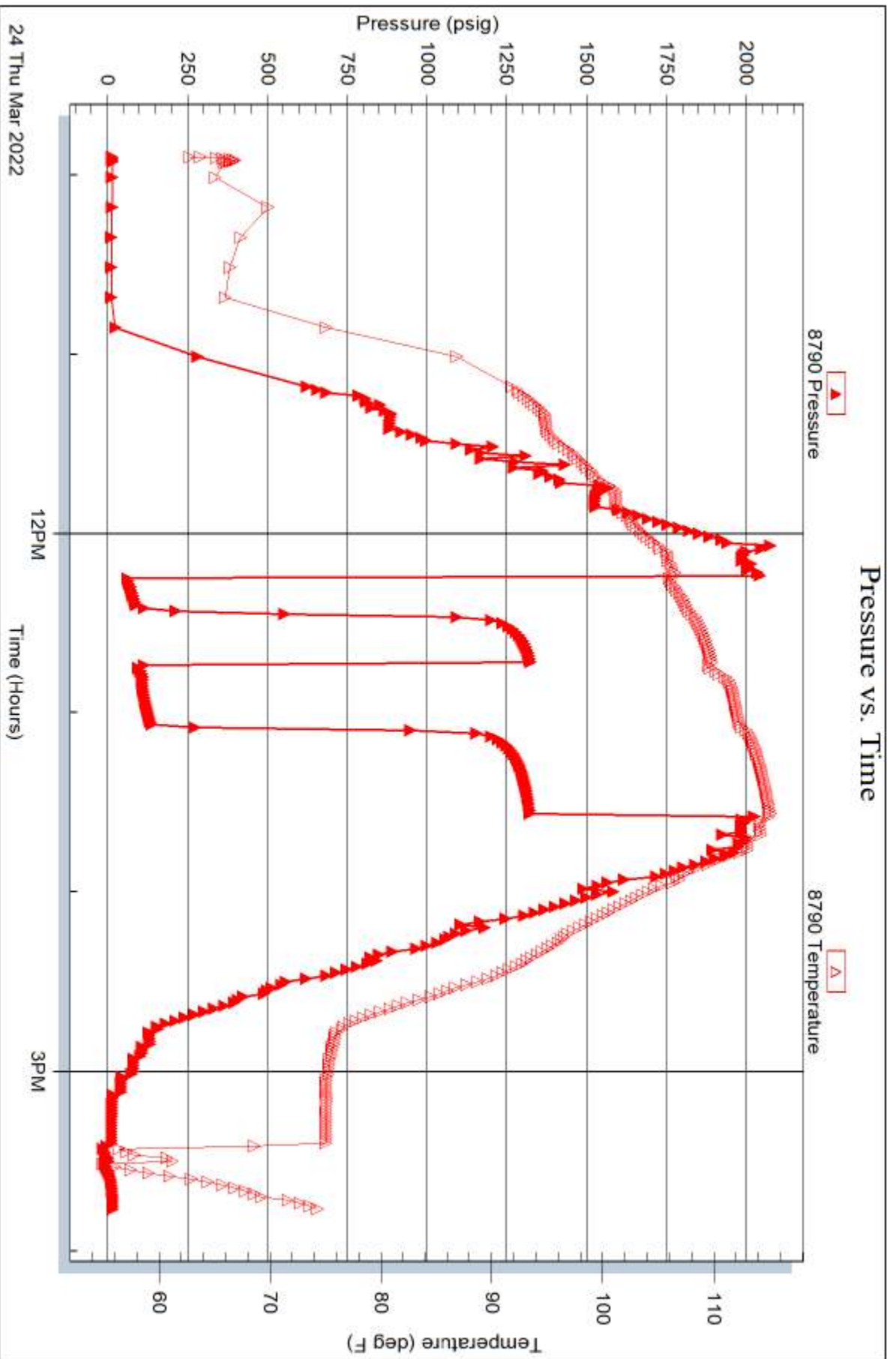
Serial #: 8790

Inside

Shakespeare Oil Company

Franz 1-26

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 68739

Printed: 2022.03.24 @ 15:56:59



**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: FRANZ
Well Id: #1-26
Location: 2050' FSL, 650' FWL, SW/4 Sec 26-T11S-R31W, Gove County, Kansas
License Number: API: 15-063-22398 **Region:** Gove County
Spud Date: 03/17/2022 **Drilling Completed:** 03/26/2022
Surface Coordinates: NAD83
Lat: 39.067392, **Long:** -100.7372936
Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 2895' **K.B. Elevation (ft):** 2906'
Logged Interval (ft): 3750' **To:** RTD **Total Depth (ft):** 4608'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

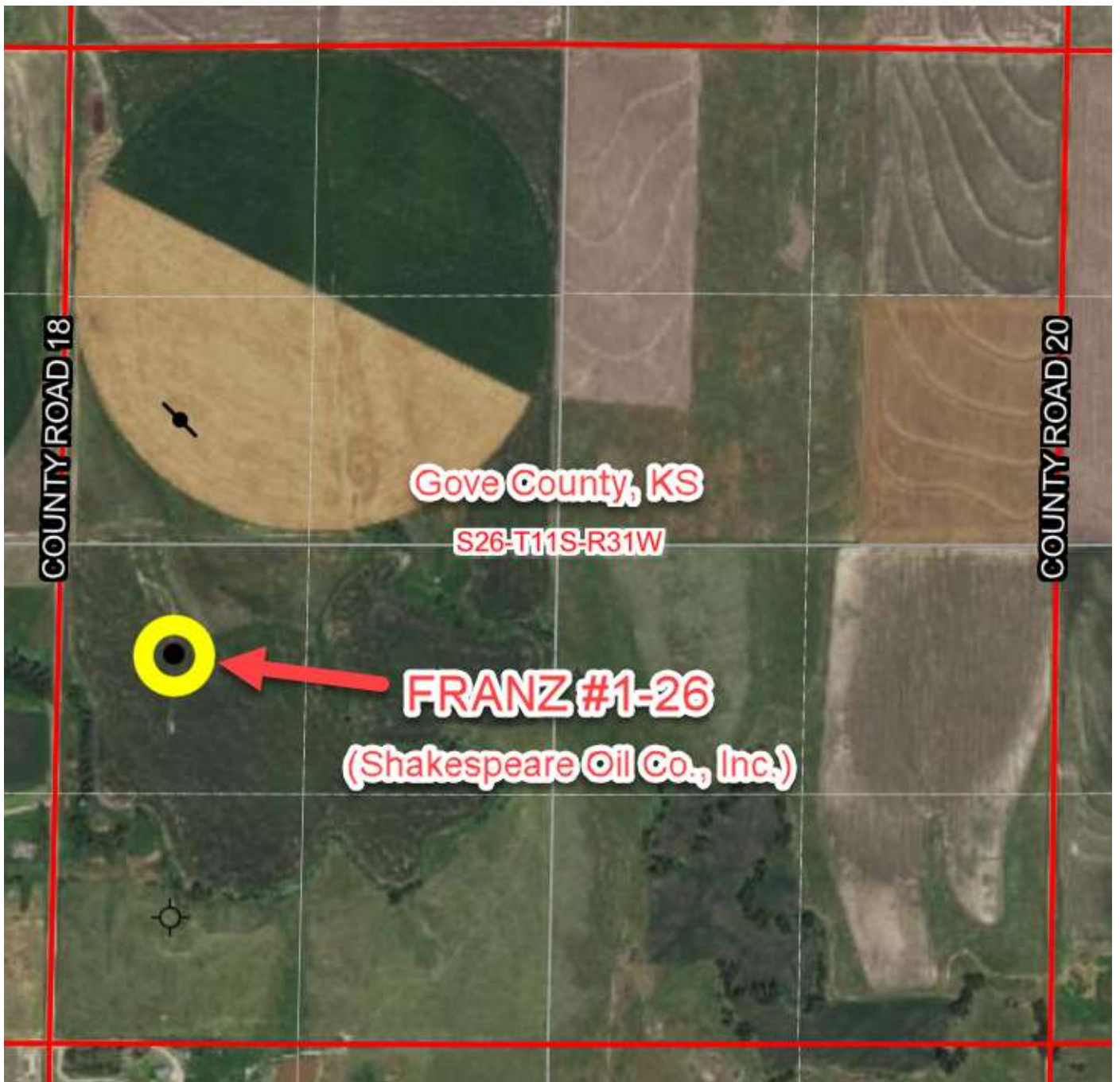
Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: SHAKESPEARE OIL COMPANY, INC.
Address: 202 West Main Street
Salem, IL 62881
618-548-1585

WELLSITE GEOLOGIST

Name: Kent R. Matson
Company: Matson Geological Services, LLC
Address: 33300 W. 15th Street S.
Garden Plain, Kansas 67050
316-644-1975; kent4m@hotmail.com



COMMENTS

Shakespeare Oil Company, Inc., Geologist: Toby Eck, 316-305-0572 (cell).

Contractor: Duke Drilling Company, Inc.: Rig #4.

Tool Pusher: Hector Torres, 620-682-3927 (cell).

Surface Casing: 8 5/8" set at 269' (KB) w/170sx cement.

Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation, 5.5" production casing was installed.

Mud by: Mud-Co/Service Mud, Inc., Reid Atkins, 785-694-3741 (cell).

DST's by: Trilobite Testing, Brandon Turley, 785-650-8399 (cell).

Logs by: ELI Wireline (DI w/GR, CND, Micro), Jeff Luebbers, 785-735-7112 (office).

RTD= 4608'

LTD= 4602'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Oread	3850'	-944	3842'	-936
Heebner Shale	3894'	-988	3886'	-980
Lansing	3935'	-1029	3926'	-1020
Muncie Creek Shale	4073'	-1167	4063'	-1157
Stark Shale	4156'	-1250	4148'	-1242
Hushpuckney Shale	4190'	-1284	4179'	-1273
Base of KC	4214'	-1308	4206'	-1300
Marmaton	4254'	-1348	4246'	-1340
Pawnee	4334'	-1428	4327'	-1421
Myrick Station	4378'	-1472	4370'	-1464
Fort Scott	4402'	-1496	4395'	-1489
Cherokee Shale	4432'	-1526	4422'	-1516
Johnson	4478'	-1572	4470'	-1564
Mississippian	4496'	-1590	4488'	-1582
RTD	4608'	-1702		
LTD			4602'	-1696

ROCK TYPES

LITHOLOGY

	Anhy
	Cht
	Coal
	Congl
	Dol
	Gyp
	Lmst
	Salt
	Shale
	Shcol
	Shgy
	Sltst
	Ss
	Carb sh
	Dol
	Dtd
	Gry sh
	Sandy lms
	Shale
	Sltstn
	Shlyslts

	Sitysh
	Sdy dolo
	Silty dolo
	Shy dolo
	Shaly ls

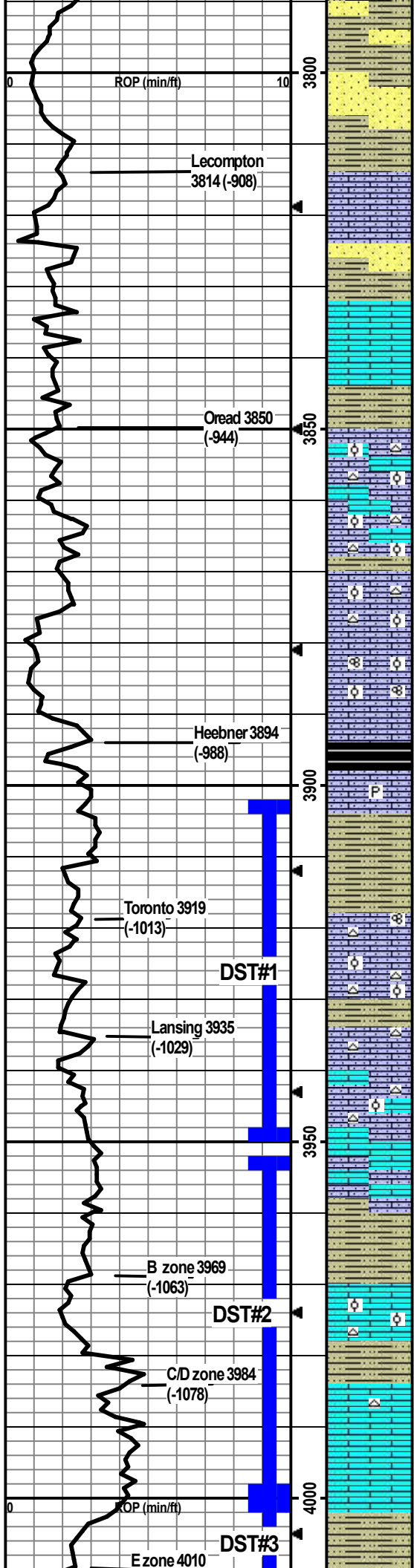
FOSSIL

	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite

MINERAL

	Ostra		Ferrpel
	Pelec		Ferr
	Pellet		Glau
	Pisolite		Gyp
	Plant		Hvymn
	Strom		Kaol
	Fuss		Marl
	Oomold		Minxl
			Nodule
			Phos
	Anhy		Pyr
	Arggrn		Salt
	Arg		Sandy
	Bent		Silt
	Bit		Sil
	Brecfrag		Sulphur
	Calc		Tuff
	Carb		Chlorite
	Chtdk		Dol
	Chtlt		Sand
	Dol		Sly
	Feldspar		

Rate of Penetration (ROP) ROP (min/ft)	DEPTH	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
	<p>36</p> <p>3650</p> <p>3700</p> <p>3750</p>				<p>Morning Report Depth/Activity (7:00 am) 03/15/2022: MIRU. 03/16: No activity. 03/17: Spud, set surface casing @ 265' KB. 03/18: Drilling @ 507'. 03/19: Drilling @ 2200'. 03/20: Drilling @ 3311'. 03/21: Drilling @ 3887'. 03/22: TOH w/bit for DST #2 @ 4000'. 03/23: DST #3 @ 4020'. 03/24: CTCH after ST for DST #4 @ 4155'. 03/25: CFS @ 4280'. 03/26: Drilling @ 4599'. TD @ 4608', Electric logged.</p> <p>Anhydrite: Top @ 2417' (+489), Base @ 2436' (+470), (Based on drill time).</p> <p>Geologist on location @ 3695', 03/20/2022.</p> <p>ROP Data begins @ 3695' on 03/20/2022. Recorded from drillers geolograph record, and geologist's auto-reader switch on geolograph.</p> <p>Formation tops and lithologies have been adjusted to correlate to the electric log.</p> <p>Oil Shows indicator: Left Block 0-10 tray pcs w/show, Middle Block 10-20 tray pcs w/show, Right Block 20+ tray pcs w/show.</p> <p>Drill cutting samples at 10' intervals start at 3750'.</p> <p>LS: cm/lt gry/lt bm, vf-m xtal, some silty/sndy, chalky, foss frags/dense ool, no vis por, no odor, ns.</p> <p>LS: cm/lt gry/lt bm, vf-n xtal, smpl vry chalky, silty/sndy, foss frags/min dense ool, no vis por, no odor, ns.</p> <p>LS: cm, vf-m xtal, vry chalky, vry silty/sndy, foss frags, some vf-m in-xtal por, no odor, ns.</p> <p>LS: cm/lt bm, vf-m xtal, vry sndy, vry chalky, foss frags/dense ool, vf-f in-xtal por, no odor, ns.</p> <p>LS: cm/lt bm, vf-m xtal, vry silty/sndy/chalky, foss frags, some ppt-f in-xtal por, no odor, ns.</p> <p>SH: lt-dk gry/lt bm-gry, vry silty/sndy, firm. SS: lt-m gry, pred Qtz, vf-f, sr-wr, carb, friable, no odor, ns.</p>	<p>Mud-Co/Service Mud Inc. Check #1 @ 0' 03/17/22, predrilling instructions.</p> <p>Mud-Co/Service Mud Inc. Check #2 @ 2109' 03/19/22 05:30am wt vis pH chl 8.8 30 7 150 Filt LCM n/c 0</p> <p>Mud-Co/Service Mud Inc. Check #3 @ 3304' 03/20/22 06:30am wt vis pH chl 9.4 30 7 29000 Filt LCM n/c 1</p> <p>Displaced drilling mud @ 3510'.</p> <p>Bit Trip @ 3695' conn; replaced PDC bit with Tricone Button bit.</p> <p>Pipe strap TOH for Bit Trip @ 3695' was 13.48' short to board. (Suspect measurement error. Will conduct another strap lower in well.</p> <p>(2nd Strap Attempt) Pipe strap TOH for DST#2 @ 4000' was 4.44' long to board.</p> <p>Mud-Co/Service Mud Inc. Check #4 @ 3850' 03/21/22 04:00am wt vis pH chl 8.9 52 11 2000 Filt LCM 6.4 1</p> <p>Mud-Co/Service Mud Inc. Check #5 @ 4000' 03/22/22 12:30pm wt vis pH chl 9.2 57 10.5 3000 Filt LCM 8.0 3</p> <p>Mud-Co/Service Mud Inc. Check #6 @ 4020' 03/23/22 07:00am wt vis pH chl 9.2 58 10.0 3300 Filt LCM 8.0 2</p> <p>Mud-Co/Service Mud Inc. Check #7 @ 4155' 03/24/22 07:05am wt vis pH chl 9.4 54 9.0 3500 Filt LCM 8.8 2</p> <p>Mud-Co/Service Mud Inc. Check #8 @ 4300' 03/25/22 09:30am wt vis pH chl 9.3 55 10.0 3400</p>



SH: m-dk gry, vry silty/sndy, carb, soft-firm. SS: lt gry, vf-f, sr-wr, slit carb, friable, no odor, ns.

Increase in SS: lt gry/med bm, vf-m, sr-wr, slit carb, friable, no odor, ns. SH: as above.

LS: cm/lt bm/lt gry, vf-crs xtal, silty/sndy, chalky, foss frags/grainy, ppt-f in-xtal por, no odor, ns.

SH: lt-dk gry/red-bm, silty, slit carb, soft-firm. SS: lt gry, vf-f, sr-wr, friable, no odor, ns.

LS: wht/cm/lt bm, micro-m xtal, vry chalky, foss frags/grainy, 50+ pcs w/sfo, mostly ppt-f w/some med in-xtal por, dul yel fluor/cut, no odor, gsfo.

LS: cm/lt bm, micro-m xtal, some vry chalky, foss frags/ool, 23 pcs w/sfo, mostly ppt-f w/min med in-xtal por, dul yel fluor/cut, no odor, gsfo.

LS: cm/lt bm, micro-m xtal, some silty/sndy, chalky, wht chert, foss frags/ool, 33 pcs w/sfo w/ppt-m in-xtal/in-ool/oo-castic por, no odor, gsfo.

LS: cm, micro-crs xtal, some silty/sndy, chalky, wht chert, foss frags/ool, 27 pcs w/sfo wf-crs in-xtal/in-ool/oo-castic por, dul yel fluor, no odor, gsfo.

LS: cm/lt bm, micro-m xtal, some silty/sndy, chalky, wht chert, foss frags/ool, 11 pcs wf-m in-xtal/in-ool por w/sfo, dul yel fluor, no odor, sfo.

LS: cm/lt bm/lt gry, f-m xtal, silty/sndy, chalky, foss frags/fusin/ool, 10 pcs w/sfo wf-crs in-xtal/in-ool/oo-castic por, dul yel fluor, no odor, sfo.

SH: m-dk gry/blk/dk bm, some silty, slit carb, soft-firm.

LS: cm/lt bm/lt gry-bm, vf-m xtal, silty, chalky, pyritic, min foss frags, no vis por, no odor, ns.

SH: lt-dk gry/blk/min lt gry-green, some vry silty, slit carb, soft-firm.

LS: wht/cm/lt bm, vf-m xtal, silty/sndy, some chalky, wht chert, foss frags/fusin, 3 pcs w/sfo wf-m in-xtal por, dul yel fluor, no odor, sfo.

LS: wht/cm/lt bm, micro-m, some vry silty, some chalky, wht chert, foss frags/ool, 19 pcs w/sfo w/ppt-f in-xtal/in-ool por, dul yel fluor, no odor, sfo.

SH: lt-dk gry/gry-green/red-bm, some vry silty, carb, soft-firm.

LS: cm/lt-m bm, vf-m xtal, silty/sndy, chalky, wht/cm chert, foss frags, 8 pcs w/sfo w/ppt-m in-xtal por, dul fluor, no odor, sfo.

LS: wht/cm, micro-m xtal, some silty, wht/cm chert, foss frags/min ool, 2 pcs w/sfo wf-m in-xtal por, dul yel fluor, no odor, sfo.

LS: cm/lt bm, micro-m xtal, some silty, some chalky, min foss frags, no vis por, no odor, ns.

SH: lt-dk gry/dk red-bm/lt green-gry, some vry silty, slit carb, firm.

LS: cm, micro-m xtal, chalky, lt bm chert, min foss frags/ool, 27 pcs w/sfo wf-crs in-xtal/in-ool por, yel fluor, gd odor, sfo.

LS: cm, micro-m xtal, chalky, wht chert, min foss frags, 18 pcs w/sfo wf-crs in-xtal por, dul yel fluor, slit odor, sfo.

LS: wht/cm, micro-f xtal, chalky, some wht chert, 14 pcs w/staining/sfo wf-crs/vug in-xtal por, yel fluor, gd odor, sfo.

LS: cm, micro-f xtal, chalky, 10 pcs w/staining/fo on break, vf-m in-xtal por, yel fluor, slit odor, sfo.

SH: lt-dk gry/red-bm, silty, slit carb, soft-firm. LS: w/good show, stg odor, staining/fo from C/D above.

LS: cm/lt bm, micro-f xtal, smpl vry chalky, min foss frags, 20 pcs w/sfo

Filt LCM
8.8 2

Mud-Co/Service Mud Inc. Check #9 @ 4608' 03/26/22 07:40am
wt vis pH chl
9.4 60+ 10.5 3000
Filt LCM
8.8 2

Survey Record
Deg @ Ft
0.5 @ 266'
0.5 @ 2565'
0.25 @ 3698'
0.75 @ 4608'

CFS @ 3870'
Stop/30"/60"

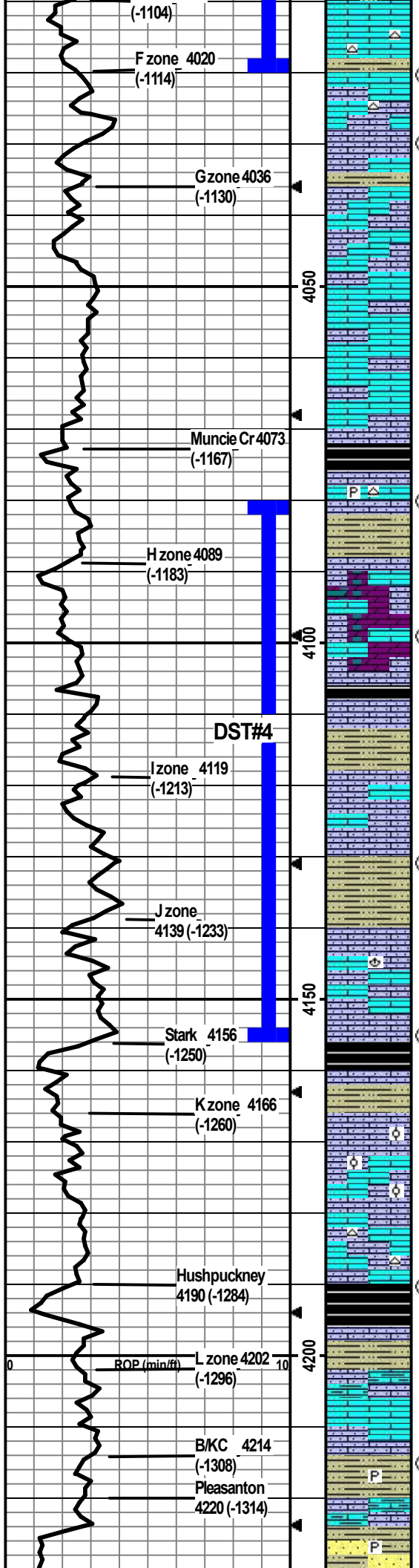
DST1) 3903-3950
Toronto & Lansing
A-zone
15/30/30/30
1st) 7" blow built to 7.75"; no BB.
2nd) SB built to 2.5"; no BB.
IFP 57-64#
ISIP 1168#
FFP 67-78#
FSIP 1120#
HP 1957-1811#
Recvd: 120' Mud (100%M).

DST2) 3952-4000
Lansing B & C/D
zones
10/30/30/60
1st) BOB blow at 2min; no BB.
2nd) BOB blow at 2min; BB BOB in 26min.
IFP 117-218#
ISIP 1205#
FFP 246-545#
FSIP 1179#
HP 2007-1911#
Recvd: 1054' GIP, 614' GO (10%G, 90%O), 500' GWMCO (10%G, 40%O, 30%M, 20%W), 126' MW (10%M, 90%W).

CFS @ 3950'
Stop/30"/60"

CFS @ 3974'
Stop/30"/60"

CFS @ 4000'
Stop/30"/60"



wf-crs in-xtal por, yel fluor, stg odor, gd sfo.
 LS: cm/lt bm, micro-f xtal, smpl vry chalky, wht chert, min foss frags, 21 pcs w/sfo w/ppt-crs in-xtal por, stg odor, brit yel fluor, gd sfo.

LS: cm/lt bm/lt gry, micro-f xtal, chalky, some silty, min wht/lt bm chert, min foss frags, no vis por, 3 small pcs w/staining poss from above, slt odor, nsfo.

LS: wht/cm/min lt gry, micro-m xtal, some silty, chalky, min foss frags, no vis por, no odor, ns.

LS: same as above, no odor, ns.

LS: wht/cm/lt bm, micro-f xtal, vry chalky, some silty, min foss frags, no vis por, no odor, ns.

LS: same as above, no odor, ns.

SH: m-dk gry/blk, some silty, slt carb, soft-firm.
 LS: cm/lt bm/med gry, micro-m xtal, chalky, some silty, min wht/lt gry chert, min pyritic, min foss frags, no vis por, no odor, ns. (1 pce w/bm oil staining assume from above.)

SH: lt-dk gry/lt green-gry, silty, carb, soft-firm.

LS: cm/lt bm, micro-f xtal, chalky, bm dolo, some silty, 24 pcs of LS and Dolo w/sfo, some gas bbls in dolo, ppt-m in-xtal por, dul-brite fluor, slt odor, sfo.

LS: cm/lt bm, micro-f xtal, some chalky, some silty, min bm dolo, no vis por, no odor, ns.
 SH: lt-dk gry/blk/min green-gry, some vry silty, slt carb, soft-firm.
 LS: cm/lt bm, micro-m xtal, some silty, some chalky, no vis por, no odor, ns.

SH: m-dk gry/maroon/gry-green, some vry silty, carb, soft-firm.

LS: cm/lt bm, micro-f xtal, some silty/sndy, chalky, 6 pcs w/staining/fo on break, some gas bbls, ppt-vf in-xtal por, yel fluor, slt odor, sfo.

SH: lt-dk gry/red-bm/maroon, some vry silty, slt carb, soft-firm.

LS: cm/lt gry, micro-m xtal, some silty/sndy, chalky, min foss frags/brac, 6 pcs w/staining/sfo, brite yel fluor, f-m in-xtal por, slt odor, sfo.

LS: cm/lt bm, micro-m xtal, smpl vry chalky, some silty, min foss frags, 9 pcs w/blk tar and fo, ppt-m in-xtal por, brite yel fluor/cut, slt odor, sfo.

SH: blk, silty, slt carb, firm, fissile.
 SH: lt-dk gry/blk/green-gry/red-bm/maroon, some vry silty/sndy, slt carb, firm, fissile.

LS: wht/cm/lt gry/lt bm, micro-m xtal, chalky, silty/sndy, foss frags/dense ool/grainy, 7 pcs w/staining/sfo on break, ppt-f in-xtal por, brite yel fluor, slt odor, sfo.

LS: cm/lt bm/lt gry-bm, micro-m xtal, chalky, silty/sndy, min wht/lt gry chert, foss frags, 3 pcs w/sfo wf-crs in-xtal por, brite yel fluor, no odor, sfo.

SH: blk, silty, slt carb, firm, fissile.
 SH: lt-dk gry/blk/red-bm/green-gry, some vry silty, soft-firm.

LS: cm/lt-m bm, micro-m xtal, some chalky, some silty/arg, foss frags, no vis por, no odor, ns.
 LS: cm/lt-m bm/lt gry, micro-m xtal, some silty/chalky, min foss frags, no vis por, no odor, ns.
 SH: lt-m gry/red-bm/maroon/lt gry-green, some vry silty, some pyritic, carb, soft-firm.
 LS: wht/cm/lt bm/lt gry, micro-m xtal, some vry silty/sndy/arg, min foss frags, no vis por, no odor, ns.
 SH: lt-dk gry/red-bm, some vry silty/sndy, carb, pyritic, soft-firm. SS: lt gry/crm, vf-f, sr-wr, pred ntz, carb, arg, friable, no odor, ns.

CFS @ 4020'
 Stop/30"/60"

CFS @ 4030'
 Stop/30"/60"

**DST3) 4001-4020
 Lansing E &
 F-zones**

5/30/15/45
 1st BOB blow at 1min; BOB BB at 12min.
 2nd BOB blow at 2min; BOB BB at 11min.
 IFP 95-146#
 ISIP 1253#
 FFP 164-330#
 FSIP 1241#
 HP 2002-1967#
 Recvd: 2125' GIP, 725' GO (15%G, 85%O), 126' GOWM (10%G, 10%O, 30%W, 50%M).

CFS @ 4080'
 Stop/30"/60"

CFS @ 4099'
 Stop/30"/60"

CFS @ 4131'
 Stop/30"/60"

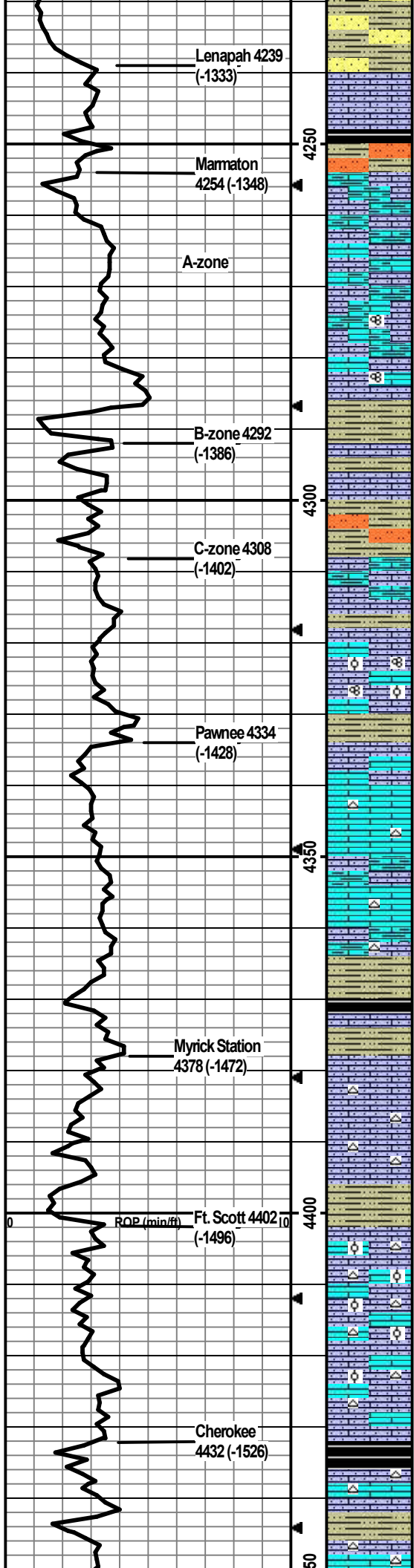
CFS @ 4155'
 Stop/30"/60"

**DST4) 4081-4155
 Lansing H, I &
 J-zones**

10/20/20/30
 1st BOB at 4min; no BB.
 2nd BOB at 2min; 1/4" BB built to 5".
 IFP 46-80#
 ISIP 1325#
 FFP 83-125#
 FSIP 1318#
 HP 2043-2027#
 Recvd: 1592' GIP, 268' WMGO (30%G, 45%O, 5%W, 20%M).

CFS @ 4190'
 Stop/30"/60"

CFS @ 4215'
 Stop/30"/60"



SH: lt-dk gry/red-bm, vry silty/sndy, carb, soft-firm. SS: lt gry/cm/red-bm, vf-f, sr-wr, some arg/chalky, carb, friable, no odor, ns.

LS: cm/lt bm/lt gry, micro-m xtal, chalky, silty, min foss frags, no vis por, no odor, ns.

SH: m-dk gry/lt gry-green/maroon, vry silty/sndy, carb, soft-firm. min Sltstr: lt gry, vf, arg, friable, no odor, ns.

LS: cm/lt-m bm/lt yel, micro-m xtal, some vry silty/sndy/arg, chalky, min foss frags, no vis por, no odor, ns.

LS: cm/lt gry/lt bm, micro-m xtal, some vry silty/sndy, some chalky, min foss frags/fusln, min ppt-f in-xtal por, no odor, ns.

SH: lt-dk gry/maroon, silty/sndy, carb, soft-firm.

LS: cm/lt bm/min lt gry, micro-m xtal, chalky, some vry silty/sndy, min foss frags, no vis por, no odor, ns.

SH: lt-dk gry/maroon, some vry silty, carb, firm. Min Sltstr: lt gry, vf-f, arg, friable, no odor, ns.

LS: cm/lt bm/lt gry, micro-m xtal, chalky, some silty/arg, min foss frags, no vis por, no odor, ns.

LS: cm/lt bm, micro-m xtal, some chalky/silty, foss frags/dense ool/fusln, no vis por, no odor, ns

SH: lt-dk gry/dk bm, some vry silty/sndy, slt carb, soft-firm.

LS: wht/cm/lt-m bm, micro-m w/min crs xtal, some silty, some chalky, min foss frags, no vis por, no odor, ns.

LS: whtcm, micro-m xtal, some chalky, min wht/lt gry chert, foss frags/grainy, no vis por, no odor, ns.

LS: cm/lt-m bm/lt gry, micro-m xtal, some chalky/silty/arg, min lt gry chert, foss frags, no vis por, no odor, ns.

LS: cm/lt-dk bm, micro-m xtal, some chalky, some silty/arg, min wht/lt bm chert, no vis por, no odor, ns.

SH: m-dk gry/blk/maroon, silty, slt carb, firm, fissile.

SH: lt-dk gry/blk/dk bm, some vry silty/sndy, carb, soft-firm.

LS: cm/lt-m bm, micro-m xtal, silty/chalky, min wht/lt gry chert, min foss frags, 8 pcs w/staining/sfo, vf-m in-xtal por, yel fluor, slt odor, sfo

LS: cm/lt bm, micro-m xtal, some silty, some chalky, wht/lt gry chert, foss frags, 13 pcs w/staining/sfo, f-crs/vug in-xtal por, gd odor, sfo.

SH: lt-dk gry/blk/lt gry-green/maroon, some vry silty/sndy, carb, soft-firm.

LS: cm/lt bm, micro-m xtal, some chalky/silty, wht/lt gry chert, foss frags/dense ool/some grainy, 6 pcs w/staining/sfo, ppt-m in-xtal por, brit yel fluor, slt odor, sfo.

LS: cm/lt-m bm, micro-m xtal, some chalky/silty, lt gry/lt bm chert, foss frags/dense ool, 5 pcs w/staining/sfo, ppt-m in-xtal por, brite yel fluor, slt odor, sfo.

LS: cm/lt-m bm, micro-m xtal, some silty, chalky, cm/lt bm chert, foss frags/min dense ool, 2 pcs w/sfo w/ppt-m in-xtal por, dul yel fluor, no odor, ssfo.

SH: m-dk gry/blk/some lt bm mottling, some silty, slt carb, soft-firm.

LS: cm/lt-m bm, micro-m xtal, some silty, chalky, wht/lt bm chert, foss frags/min crin, no vis por, no odor, ns.

SH: lt-dk gry/blk/dk bm, silty, carb, soft-firm.

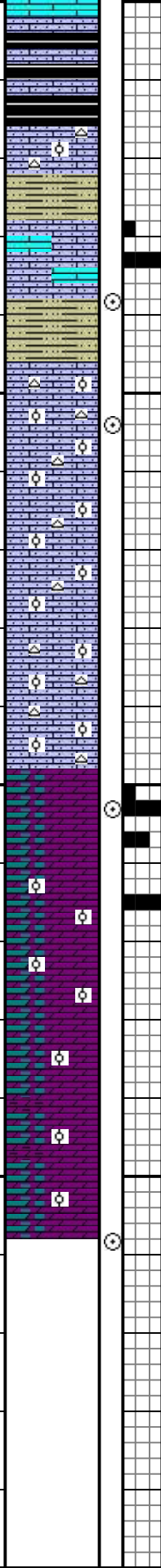
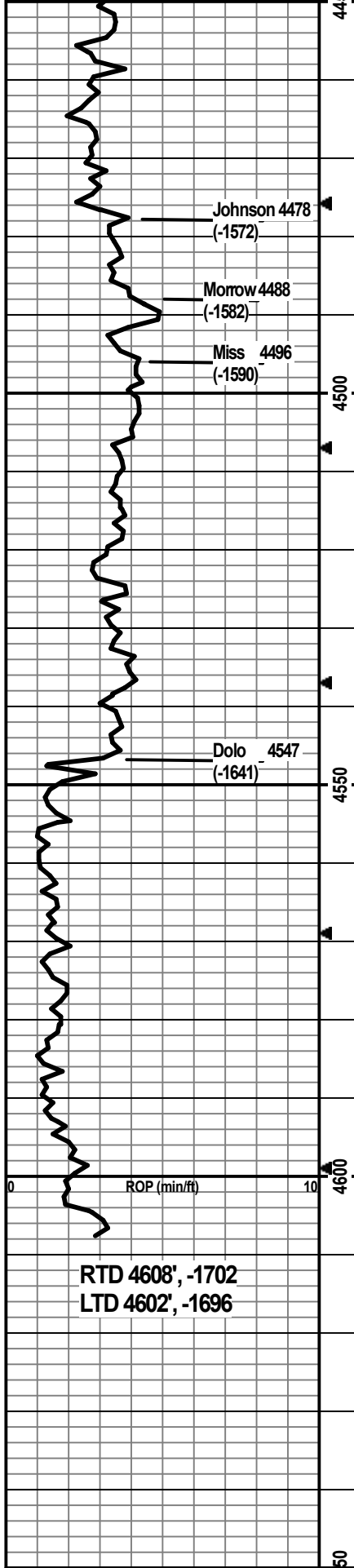
LS: cm/lt-m bm, micro-m xtal, some chalky/silty, wht/lt gry/lt bm chert, min foss frags, no vis por, no odor, ns.

CFS @ 4240'
Stop/30"/60"

CFS @ 4280'
Stop/30"/60"

CFS @ 4300'
Stop/30"/60"

CFS @ 4390'
Stop/30"/60"



ross frags, no vis por, no odor, ns.

SH: dk gry/blk/lt-dk bm/bm-blk mottling, slit silty, slit carb, firm.

SH: m-dk gry/blk, some vry silty, carb, soft-firm.

LS: cm/lt bm, micro-m xtal, chalky, silty, lt gry/lt bm chert, foss frags/min dense ool, no vis por, no odor, ns.

SH: lt-dk gry/blk/red-bm/lt gry-green, some vry silty, carb, soft-firm.

LS: cm/lt-m bm, micro-m xtal, silty/chalky, min foss frags, 3 pcs w/sfo w/ppt-m in-xtal por, slit odor, dul-brite yel fluor, ssfo.

LS: cm/lt-m bm, micro-m xtal, chalky, 21 pcs w/sfo w/f-crs in-xtal por, dul yel fluor, slit odor, sfo.

SH: m-dk gry/lt green-gry/min maroon/min yel/mustard yel, some vry silty/sndy, carb, soft-firm.

LS: cm/lt gry-bm/some lt yel, micro-m xtal, silty/sndy, chalky, wht/lt gry/lt yel chert, foss frags/dense ool/grainy, no vis por, no odor, ns. (3 pcs w/sfo assume from above).

LS: wht/cm/lt bm/lt yel, vf-m xtal, vry silty/sndy/chalky, min wht/lt yel chert, ool, no vis por, no odor, ns.

LS: wht/cm/lt bm/lt yel, vf-m xtal, vry silty/sndy/chalky, wht/lt bm/lt yel/lt green chert, ool, no vis por, no odor, ns.

LS: wht/cm/lt bm/lt yel/min bm mottling, vf-m xtal, vry silty/sndy/chalky, increase in wht/lt yel/lt orange, ool, no vis por, no odor, ns.

LS: cm/lt-m bm/min lt yel, micro-m xtal, some vry silty/sndy/chalky, wht/lt green/lt gry/lt yel/orange chert, foss frags/ool, no vis por, no odor, ns.

Dolo: lt-m bm, vf grained, sucrosic, ppt-vf in-xtal por, 1 glistening pce in 30min smpl w/yel cutfo on break, no odor, ssfo. 60min: Dolo as above w/27 pcs wfo droplets on dolo chips, faint fluor, gd odor, gsfo. 11 pcs in 4570 smpl w/sfo, gd odor, gd sfo.

Dolo: bm, vf-f xtal, sucrosic, ool/oo-castic, ppt-m in-xtal por w/crs oo-castic por, 21 pcs wfo droplets on chips, faint fluor, gd odor, gd sfo.

Dolo: lt-m bm, vf-f xtal, sucrosic, ool/oo-castic, ppt-m in-xtal por w/crs oo-castic por, no odor, ns.

Dolo: lt-m bm, vf-f xtal, sucrosic, increase in carb content, foss frags, less ool than above, ppt-f in-xtal por, min crs oo-castic por, no odor, ns.

Dolo: lt-m bm/lt-m gry/mottled, vf-f xtal, sucrosic, higher carb content, some arg, foss frags, ppt-m in-xtal por, min crs oo-castic por, no odor, ns.

TD @ 4608'

CFS @ 4488
Stop/30"/60

CFS @ 4504
Stop/30"/60

CFS @ 4553
Stop/30"/60

CFS @ 4608'
Stop/30"/60"
Did 15 std wiper trip, then CTCH
1.5 hr, then TOH for logging.

RTD 4608', -1702
LTD 4602', -1696

SWIFT



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



Invoice

DATE	INVOICE #
3/17/2022	35359

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

- Acidizing
- Cement
- Tool Rental

INT

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-26	Franz	Gove	Duke Drlg Rig #4	Oil	Development	Surface	Jonathan
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	6.00	420.00
576D-S	Pump Charge - Shallow <u>Surface</u> (< 500 Ft.)				1	Job	1,000.00	1,000.00
290	D-Air				2	Gallon(s)	42.00	84.00T
325	Standard Cement				170	Sacks	14.50	2,465.00T
278	Calcium Chloride				8	Sack(s)	40.00	320.00T
279	Bentonite Gel				6	Sack(s)	30.00	180.00T
581D	Service Charge Cement				170	Sacks	2.00	340.00
583D	Drayage				583.8	Ton Miles	1.00	583.80
	Subtotal							5,392.80
	Sales Tax Gove County						8.50%	259.17

502.5
an

RECEIVED
MAR 22 2022

We Appreciate Your Business!

Total

\$5,651.97

DW



CHARGE TO: *Shakespeare Oil*

TICKET 35359

ADDRESS

CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS

1. *Hays, KS*

2. *Ness City, KS*

3. *Di*

4. *Development*

WELL/PROJECT NO. *1-26*

TICKET TYPE SERVICE SALES

CONTRACTOR *Duke Drilling*

LEASE *Prater Franz*

COUNTY/PARISH *Gove*

RIG NAME/NO. *# 4*

STATE *KS*

CITY *Location*

DATE *03/17/22*

OWNER *Samy*

WELL TYPE *Di*

WELL CATEGORY *Development*

JOB PURPOSE *Surface*

WELL PERMIT NO.

WELL LOCATION

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT		DF	U/M	U/M		
575		1							
576s		1		MILEAGE # 113			70 mi	4.00	420.00
290		1		Pump Charge - Shallow Surface			1 EA	1000.00	1000.00
				D-Air			2 gal	42.00	84.00
325		2		Standard Cement			170 SKS	14.50	2465.00
278		1		Calcium Chloride (3%)			8 SKS	40.00	320.00
279		1		Bentonite Gel (2%)			6 SKS	30.00	180.00
581		1		Service Charge Cement			170 SKS	2.00	340.00
583		2		Drayage			583.8 TM	1.00	583.80

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 *Hector Jones*

DATE SIGNED _____ TIME SIGNED _____ A.M. P.M.

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 5,392.80

TOTAL 5,392.80

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

SWIFT OPERATOR *[Signature]* APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 03/17/22 PAGE NO. 1

CUSTOMER Shakespeare Oil WELL NO. 1-26 LEASE Prince Franz JOB TYPE Surface TICKET NO. 35359

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							On location, Rig Pulling Callers
								285,79' of 8 5/8" set @ 765' Landing Joint - 11'
	1400							Start Running 8 5/8"
	1445							On bottom, Break Circ.
	1500							Hook up to Swift
		4	5				300	Pump Water ahead.
		4						Start Cont Mix @ 141.7 ppm
		4	41					Finish Cement, start Displacement
		4	10				200	Cement Circulating
		4	15 1/2				250	Finish Displacement
	1530							Shut in
								Release Truck
								Wash up
	1545							Rack up
								Job Complete
								Thanks Jon, Joe, John
								Circulated 20 SKs to pit



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



Invoice

DATE	INVOICE #
3/27/2022	35361

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-26	Franz	Gove	Duke Drlg Rig #4	Oil	Development	Long String	Jonathan

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	6.00	420.00
578D-L	Pump Charge - Long String	1	Job	1,500.00	1,500.00
290	D-Air	3	Gallon(s)	42.00	126.00T
281	Mud Flush	500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)	2	Gallon(s)	25.00	50.00T
325	Standard Cement	225	Sacks	14.50	3,262.50T
284	Calseal	21	Sack(s)	40.00	840.00T
292	Halad 322	200	Lb(s)	8.50	1,700.00T
276	Flocele	25	Lb(s)	3.00	75.00T
277	Gilsonite (Coal Seal)	750	Lb(s)	1.25	937.50T
581D	Service Charge Cement	225	Sacks	2.00	450.00
583D	Drayage	854	Ton Miles	1.00	854.00
283	Salt	1,225	Lb(s)	0.25	306.25T
	Subtotal				11,271.25
	Sales Tax Gove County			8.50%	684.02

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RECEIVED
APR 04 2022

We Appreciate Your Business!	Total	\$11,955.27
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DW



CHARGE TO: *Shakespeare Oil*
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 35361

PAGE 1 OF 1

SERVICE LOCATIONS
 1. *Hays, KS*
 2. *Ness City, KS*
 3.
 4.

WELL/PROJECT NO. *1-26*
 CONTRACTOR *Duke Drilling*
 WELL TYPE *Oil*
 INVOICE INSTRUCTIONS

LEASE *Franz*
 COUNTY/PARISH *Boone*
 RIG NAME/NO. *#4*
 WELL CATEGORY *Development*
 JOB PURPOSE *Long String*

STATE *KS*
 CITY
 SHIPPED VIA *CT*
 DELIVERED TO *Location*
 WELL PERMIT NO.

DATE *03/27/22*
 ORDER NO.
 OWNER *Same*

WELL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1					70	mi	6.00	420.00
578		1		MILEAGE #113			1	EA	1500.00	1500.00
290		1		Pump Charge - Long String			3	gal	42.00	126.00
281		1		D-Air			500	gal	1.50	750.00
221		1		Mud Flush			2	gal	25.00	50.00
				Liquid KCL						

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 X *[Signature]*

DATE SIGNED _____ TIME SIGNED _____
 A.M.
 P.M.

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 2
 PAGE TOTAL 2846.00
 Page 2 8425.25
 sub Total 11,271.25

G.T.A.X. 684.02

TOTAL 11955.27

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

SWIFT OPERATOR *[Signature]* APPROVAL

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 35361

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		TIME	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ADCT								
325		2			Standard Cement	225	SKS			14.00	3262.50
284		2			Calseal	21	SKS			40.00	840.00
283		2			Salt	1225	lbs			0.25	306.25
292		2			Haked 322	200	lbs			8.50	1700.00
276		2			Flocelk	25	lbs			3.00	75.00
277		2			Wilsonite	750	lbs			1.25	937.50
581		2			Cement	225	SKS			2.00	450.00
583		2			Wilsonite	854	TON MILES			1.00	854.00
SERVICE CHARGE MILEAGE CHARGE TOTAL WEIGHT 24,100 LOADED MILES 70											8425.25

CONTINUATION TOTAL 8425.25

JOB LOG

SWIFT Services, Inc.

DATE 03/27/22 PAGE NO. 1

CUSTOMER Shakespeare Oil WELL NO. 1-26 LEASE Franz JOB TYPE Long string TICKET NO. 35361

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0400							On location, waiting on welder.
								TD-4607'
								Total Pipe Run-4609' 5 1/2" x 15.5#
								Shoe Joint-32.50'
								Port Collar-2367'
								Company Float Equipment
	0900							Break Circulation on Bottom
	1030							Hook up to Swift
		2	7					Plug Rathole w/ 30 SKS
	1045	5	12			400		Pump Mud Flush
		5	20			400		Pump RCL Spacer
		5				400		Start Lead EA 2 mix @ 15.5#
		5	47			VAL		Finish Cement, Shut Down
		5 1/2						Drop Plug, Washout Pump & Lines
		5 1/2	85			400		Start Displacement
		5 1/2	105			900		Catch Cement
	1130	5 1/2	109			1500		Lift PSI
	1135							Land Plug
								Release Truck, Dry
								Wash up
								Rack up
	1200							Job Complete

Thanks
 Jon, Joe, Preston, Isaac

SWIFT



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



Invoice

DATE	INVOICE #
4/1/2022	35365

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-26	Franz	Gove	Cheyenne	Oil	Development	Cement Port Collar	Jonathan

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	6.00	420.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars	1	Job	1,500.00	1,500.00
290	D-Air	3	Gallon(s)	42.00	126.00T
275	Cotton Seed Hulls	1	Sack(s)	35.00	35.00T
330	Swift Multi-Density Standard (MIDCON II)	225	Sacks	18.00	4,050.00T
276	Flocele	50	Lb(s)	3.00	150.00T
581D	Service Charge Cement	250	Sacks	2.00	500.00
583D	Drayage	870.73	Ton Miles	1.00	870.73
	Subtotal				7,651.73
	Sales Tax Gove County			8.50%	370.69

502-5
gn

INT

RECEIVED
APR 11 2022

We Appreciate Your Business!

Total

\$8,022.42

DW



TICKET 35365

CHARGE TO: *Shalespence Oil*
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

SERVICE LOCATIONS
 1. *Hays, KS*
 2. *Ness City, KS*
 3.
 4.

WELL/PROJECT NO. *1-26*
 CONTRACTOR *Chayenne Well Service*
 WELL TYPE *D.I.*
 INVOICE INSTRUCTIONS

LEASE *Franz*
 COUNTY/PARISH *Boone*
 RIG NAME/NO.
 JOB PURPOSE *Cement Port Collar*

STATE *KS*
 SHIPPED VIA *CT*
 DELIVERED TO *Location*
 WELL PERMIT NO.

DATE *04/16/22*
 ORDER NO.
 WELL LOCATION
 OWNER *Sumr*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOL
		LOC	ACCT							
575		1					70 mi		6.00	420.00
576a		1		MILEAGE #110			1 EA		1500.00	1500.00
298		1		Pump Charge - Port Collar			2 gal		42.00	84.00
275		1		D-Air			1 SK		35.00	35.00
				Cotton seed Hulls						
330		2		Swift Multi Density Standard			225 SKS		18.00	4150.00
276		2		Floccul			50 lbs		3.00	150.00
581		2		Service Charge Cement			250 SKS		2.00	500.00
583		2		Drayage			870.73 TM		1.00	870.73

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

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 *[Signature]*

DATE SIGNED _____ TIME SIGNED _____
 A.M.
 P.M.

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

PAGE TOTAL 7,651.73

TOTAL 8,022.42

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

SWIFT OPERATOR *[Signature]* APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 04/01/22 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Shakespeare Oil		1-26		Franz		Port Collar		35365	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0900								On location, setup trucks 2 7/8" x 5 1/2" Port Collar 2367
						1000			Test Port Collar to 1000 psi - Held, Open Port Collar
		3	3			250			Take Injection Rate, check for Blow Tie Onto Tubing
		3	8			300			Establish Blow when Pumping Start Cement w/ hulls @ 11.2 [#]
		3							Catch Circulation
		3	10			300			Cement Circulating, Raise Wt.
		3	105			350			Finish Cement, start Displacement
		3	115			400			Finish Displacement, shut Down
		3	13			700			shut in & Close Port Collar
						1000			Test Port Collar to 1000 psi - Held. Release Pressure
									Run 5 Jts
		3				300			Reverse Out, 2 Cement Flugs,
		3	30			300			Washed Clean.
	1130								Washup truck
									Rack up
	1145								Job Complete
									Thanks Jon, Joe, Isaac
									225 SKS total 20 SKS to pit.